Question #301

A university research laboratory needs to migrate 30 TB of data from an on-premises Windows file server to Amazon FSx for Windows File Server. The laboratory has a 1 Gbps network link that many other departments in the university share.

The laboratory wants to implement a data migration service that will maximize the performance of the data transfer. However, the laboratory needs to be able to control the amount of bandwidth that the service uses to minimize the impact on other departments. The data migration must take place within the next 5 days.

Which AWS solution will meet these requirements?

A. AWS Snowcone

B. Amazon FSx File Gateway

C. AWS DataSync

D. AWS Transfer Family

Correct Answer: C

Community vote distribution

4%

😑 👗 kruasan (Highly Voted 🖬) 1 year, 1 month ago

C (96%)

Selected Answer: C

AWS DataSync is a data transfer service that can copy large amounts of data between on-premises storage and Amazon FSx for Windows File Server at high speeds. It allows you to control the amount of bandwidth used during data transfer.

• DataSync uses agents at the source and destination to automatically copy files and file metadata over the network. This optimizes the data transfer and minimizes the impact on your network bandwidth.

• DataSync allows you to schedule data transfers and configure transfer rates to suit your needs. You can transfer 30 TB within 5 days while controlling bandwidth usage.

• DataSync can resume interrupted transfers and validate data to ensure integrity. It provides detailed monitoring and reporting on the progress and performance of data transfers.

upvoted 19 times

😑 💄 kruasan 1 year, 1 month ago

Option A - AWS Snowcone is more suitable for physically transporting data when network bandwidth is limited. It would not complete the transfer within 5 days.

Option B - Amazon FSx File Gateway only provides access to files stored in Amazon FSx and does not perform the actual data migration from on-premises to FSx.

Option D - AWS Transfer Family is for transferring files over FTP, FTPS and SFTP. It may require scripting to transfer 30 TB and monitor progress, and lacks bandwidth controls.

upvoted 13 times

😑 👗 Michal_L_95 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C

As read a little bit, I assume that B (FSx File Gateway) requires a little bit more configuration rather than C (DataSync). From Stephane Maarek course explanation about DataSync:

An online data transfer service that simplifies, automates, and accelerates copying large amounts of data between on-premises storage systems and AWS Storage services, as well as between AWS Storage services.

You can use AWS DataSync to migrate data located on-premises, at the edge, or in other clouds to Amazon S3, Amazon EFS, Amazon FSx for Windows File Server, Amazon FSx for Lustre, Amazon FSx for OpenZFS, and Amazon FSx for NetApp ONTAP. upvoted 10 times

😑 💄 fimlajirki (Most Recent 🕗) 5 months, 4 weeks ago

Selected Answer: C

itexamstest.com

no disscusion c :) upvoted 1 times

😑 🌲 Cyberkayu 6 months ago

Selected Answer: A

Snow cone can support up to 8TB for HDD and 15TB for each SSD devices. Shipped within 4-6 days. Data migration can begin on next 5 days.

Does not use any amount of bandwidth and impact the production network. Device came with 1G and 10G Base-T Ethernet port. That's the Maximum performance in data transfer. defined in the question.

upvoted 2 times

😑 💄 AZ_Master 6 months, 3 weeks ago

Selected Answer: C

Bandwidth control = Data Sync https://docs.aws.amazon.com/datasync/latest/userguide/configure-bandwidth.html upvoted 3 times

😑 🆀 Ruffyit 7 months ago

Bandwidth Optimization and Control

Transferring hot or cold data should not impede your business. DataSync is equipped with granular controls to optimize bandwidth consumptions. Throttle transfer speeds up to 10 Gbps during off hours and set limits when network availability is needed elsewhere upvoted 1 times

E & Guru4Cloud 9 months, 1 week ago

Selected Answer: C

C. AWS DataSync upvoted 1 times

🖃 👗 Nikki013 9 months, 2 weeks ago

Selected Answer: C

https://aws.amazon.com/datasync/features/ upvoted 1 times

🖃 🆀 Yousuf_Ibrahim 8 months ago

Bandwidth Optimization and Control

Transferring hot or cold data should not impede your business. DataSync is equipped with granular controls to optimize bandwidth consumptions. Throttle transfer speeds up to 10 Gbps during off hours and set limits when network availability is needed elsewhere. upvoted 1 times

□ ▲ jayce5 12 months ago

Selected Answer: C

"Amazon FSx File Gateway" is for storing data, not for migrating. So the answer should be C. upvoted 2 times

😑 💄 ACloud_Guru15 7 months, 1 week ago

Thanks for the explanation upvoted 1 times

😑 🆀 shanwford 1 year, 2 months ago

Selected Answer: C

Snowcone to small and delivertime to long. With DataSync you can set bandwidth limits - so this is fine solution. upvoted 3 times

😑 🆀 MaxMa 1 year, 2 months ago

Why not B? upvoted 1 times

😑 📥 Guru4Cloud 9 months ago

Transfering will be much longerm rather then 5 days as required. upvoted 1 times

😑 🛔 AlessandraSAA 1 year, 3 months ago

A not possible because Snowcone it's just 8TB and it takes 4-6 business days to deliver B why cannot be https://aws.amazon.com/storagegateway/file/fsx/? C I don't really get this

D cannot be because not compatible - https://aws.amazon.com/aws-transfer-family/

upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

With B you cannot "control the amount of bandwidth that the service uses", while C does exactly what is required here. upvoted 1 times

😑 💄 Steve_4542636 1 year, 3 months ago

Selected Answer: C

Voting C upvoted 1 times

😑 🆀 Bhawesh 1 year, 3 months ago

Selected Answer: C

C. - DataSync is Correct.

A. Snowcone is incorrect. The question says data migration must take place within the next 5 days.AWS says: If you order, you will receive the Snowcone device in approximately 4-6 days.

upvoted 2 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: C

DataSync can be used to migrate data between on-premises Windows file servers and Amazon FSx for Windows File Server with its compatibility for Windows file systems.

The laboratory needs to migrate a large amount of data (30 TB) within a relatively short timeframe (5 days) and limit the impact on other departments' network traffic. Therefore, AWS DataSync can meet these requirements by providing fast and efficient data transfer with network throttling capability to control bandwidth usage. upvoted 4 times

😑 💄 cloudbusting 1 year, 3 months ago

https://docs.aws.amazon.com/datasync/latest/userguide/configure-bandwidth.html upvoted 2 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: C

https://aws.amazon.com/datasync/ upvoted 2 times

Question #302

A company wants to create a mobile app that allows users to stream slow-motion video clips on their mobile devices. Currently, the app captures video clips and uploads the video clips in raw format into an Amazon S3 bucket. The app retrieves these video clips directly from the S3 bucket. However, the videos are large in their raw format.

Users are experiencing issues with buffering and playback on mobile devices. The company wants to implement solutions to maximize the performance and scalability of the app while minimizing operational overhead.

Which combination of solutions will meet these requirements? (Choose two.)

- A. Deploy Amazon CloudFront for content delivery and caching.
- B. Use AWS DataSync to replicate the video files across AW'S Regions in other S3 buckets.
- C. Use Amazon Elastic Transcoder to convert the video files to more appropriate formats.
- D. Deploy an Auto Sealing group of Amazon EC2 instances in Local Zones for content delivery and caching.
- E. Deploy an Auto Scaling group of Amazon EC2 instances to convert the video files to more appropriate formats.

Correct Answer: *A*

Community vote distribution A (62%)

C (38%)

😑 🖀 Bhawesh (Highly Voted 🖬) 1 year, 3 months ago

For Minimum operational overhead, the 2 options A,C should be correct.

A. Deploy Amazon CloudFront for content delivery and caching.

C. Use Amazon Elastic Transcoder to convert the video files to more appropriate formats. upvoted 18 times

😑 🌲 pentium75 (Highly Voted 🖬) 5 months, 2 weeks ago

F - Fire the guy who created the current design upvoted 17 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

No, make him watch all those videos with buffering! upvoted 6 times

😑 👗 xyGGXH (Most Recent 🕗) 3 months, 1 week ago

Selected Answer: A

A&C is correct upvoted 3 times

😑 📥 db95476 5 months, 2 weeks ago

Selected Answer: A A and C upvoted 2 times

😑 🌡 Ruffyit 7 months ago

For Minimum operational overhead, the 2 options A,C should be correct.

A. Deploy Amazon CloudFront for content delivery and caching.C. Use Amazon Elastic Transcoder to convert the video files to more appropriate formats. upvoted 2 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

For Minimum operational overhead, the 2 options A,C should be correct.A. Deploy Amazon CloudFront for content delivery and caching.C. Use Amazon Elastic Transcoder to convert the video files to more appropriate formats. upvoted 1 times

😑 🌢 Guru4Cloud 8 months, 3 weeks ago

examtopics team, please fix this question, please allow to select two answer upvoted 1 times

😑 🏝 jacob_ho 9 months, 2 weeks ago

Elastic Transcoder has been deprecated, and AWS encourage to use AWS Elemental MediaConvert right now: https://aws.amazon.com/blogs/media/how-to-migrate-workflows-from-amazon-elastic-transcoder-to-aws-elemental-mediaconvert/ upvoted 6 times

😑 💄 enc_0343 11 months, 2 weeks ago

Selected Answer: A

AC is the correct answer upvoted 1 times

😑 🌲 antropaws 1 year ago

Selected Answer: A

AC, the only possible answers. upvoted 1 times

😑 🌲 Eden 1 year, 1 month ago

It says choose two so I chose AC upvoted 1 times

😑 💄 WherecanIstart 1 year, 2 months ago

Selected Answer: C

A & C are the right answers. upvoted 3 times

😑 💄 kampatra 1 year, 3 months ago

Selected Answer: A

Correct answer: AC upvoted 2 times

😑 👗 Steve_4542636 1 year, 3 months ago

Selected Answer: C

A and C. Transcoder does exactly what this needs. upvoted 2 times

😑 💄 Steve_4542636 1 year, 3 months ago

Selected Answer: A

A and C. CloudFront hs caching for A upvoted 1 times

😑 💄 wawaw3213 1 year, 3 months ago

Selected Answer: C

a and c upvoted 2 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: C

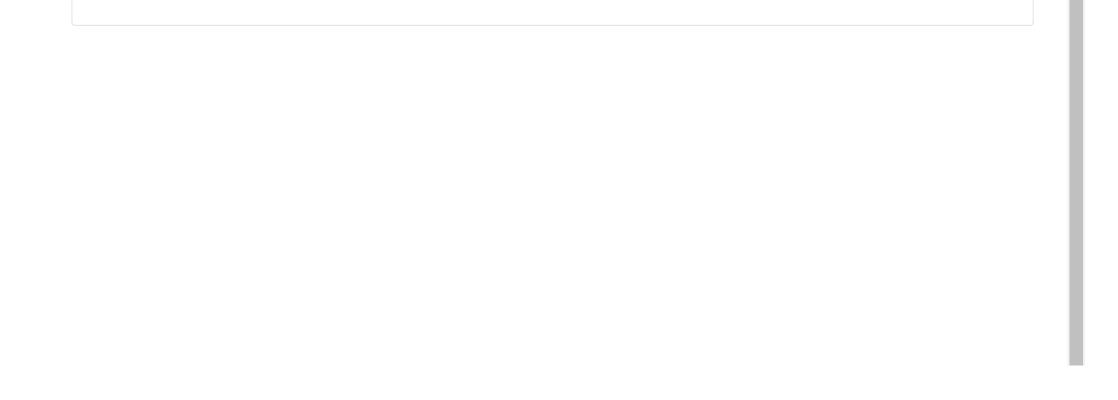
Both A and C - I was not able to choose both https://aws.amazon.com/elastictranscoder/ upvoted 2 times

😑 🌲 Bhrino 1 year, 3 months ago

Selected Answer: C

A and C bc cloud front would help the performance for content such as this and elastictranscoder makes the process from transferring devices almost seamless

upvoted 1 times



What should a solutions architect recommend?

A. Use Amazon EC2 Auto Scaling to scale at certain periods based on previous traffic patterns.

B. Use an AWS Lambda function to scale Amazon ECS based on metric breaches that trigger an Amazon CloudWatch alarm.

C. Use Amazon EC2 Auto Scaling with simple scaling policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm.

D. Use AWS Application Auto Scaling with target tracking policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm.

Correct Answer: D

Community vote distribution

D (100%)

😑 👗 rrharris (Highly Voted 🖬) 1 year, 3 months ago

Answer is D - Auto-scaling with target tracking upvoted 12 times

😑 🌲 phuonglai Most Recent 🔿 4 months ago

Selected Answer: D

https://docs.aws.amazon.com/autoscaling/application/userguide/what-is-application-auto-scaling.html upvoted 3 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: D

https://docs.aws.amazon.com/autoscaling/application/userguide/what-is-application-auto-scaling.html upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: D

This is running on Fargate, so EC2 scaling (A and C) is out. Lambda (B) is too complex. upvoted 2 times

😑 🌢 TariqKipkemei 8 months, 1 week ago

Target tracking will scale in/out the ECS cluster to maintain the average CPU utilization to a set value. e.g. <<<50%>>> Scale out when average CPU utilization is above 50% until average CPU utilization is back to 50%. And scale in when average CPU utilization is below 50% until average CPU utilization is back to 50%.

upvoted 3 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Answer is D upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: D

Answer is D - Auto-scaling with target tracking upvoted 1 times

😑 🏝 TariqKipkemei 1 year, 1 month ago

Answer is D - Application Auto Scaling is a web service for developers and system administrators who need a solution for automatically scaling their scalable resources for individual AWS services beyond Amazon EC2.

upvoted 3 times

😑 💄 boxu03 1 year, 3 months ago

Selected Answer: D

should be D

upvoted 1 times

😑 💄 Joxtat 1 year, 3 months ago

Selected Answer: D

https://docs.aws.amazon.com/autoscaling/application/userguide/what-is-application-auto-scaling.html

upvoted 4 times

😑 🌲 jahmad0730 1 year, 3 months ago

Selected Answer: D

Answer is D upvoted 2 times

😑 💄 Neha999 1 year, 3 months ago

D : auto-scaling with target tracking upvoted 4 times

Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS DataSync.

- B. Use AWS Snowball devices.
- C. Set up an SFTP server on Amazon EC2.
- D. Use AWS Database Migration Service (AWS DMS).

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

AWS DataSync is a fully managed data transfer service that simplifies moving large amounts of data between on-premises storage systems and AWS services. It can also transfer data between different AWS services, including different AWS Regions. DataSync provides a simple, scalable, and automated solution to transfer data, and it minimizes the operational overhead because it is fully managed by AWS. upvoted 16 times

😑 🌲 Ruffyit Most Recent 🕗 7 months ago

AWS DataSync is a fully managed data transfer service that simplifies moving large amounts of data between on-premises storage systems and AWS services. It can also transfer data between different AWS services, including different AWS Regions. DataSync provides a simple, scalable, and automated solution to transfer data, and it minimizes the operational overhead because it is fully managed by AWS. upvoted 1 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Selected Answer: A Use AWS DataSync upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

Use AWS DataSync. upvoted 1 times

😑 💄 kruasan 1 year, 1 month ago

Selected Answer: A

• AWS DataSync is a data transfer service optimized for moving large amounts of data between NFS file systems. It can automatically copy files and metadata between your NFS file systems in different AWS Regions.

• DataSync requires minimal setup and management. You deploy a source and destination agent, provide the source and destination locations, and DataSync handles the actual data transfer efficiently in the background.

• DataSync can schedule and monitor data transfers to keep source and destination in sync with minimal overhead. It resumes interrupted transfers and validates data integrity.

• DataSync optimizes data transfer performance across AWS's network infrastructure. It can achieve high throughput with minimal impact to your operations.

upvoted 2 times

😑 💄 kruasan 1 year, 1 month ago

Option B - AWS Snowball requires physical devices to transfer data. This incurs overhead to transport devices and manually load/unload data. It is not an online data transfer solution.

Option C - Setting up and managing an SFTP server would require provisioning EC2 instances, handling security groups, and writing scripts to automate the data transfer - all of which demand more overhead than DataSync.

Option D - AWS Database Migration Service is designed for migrating databases, not general file system data. It would require converting your NFS data into a database format, incurring additional overhead.

upvoted 2 times

😑 🌲 ashu089 1 year, 2 months ago

Selected Answer: A

A only

upvoted 1 times

😑 💄 skiwili 1 year, 3 months ago

Selected Answer: A

Aaaaaa upvoted 1 times

NolaHOla 1 year, 3 months ago A should be correct

upvoted 1 times

A company is designing a shared storage solution for a gaming application that is hosted in the AWS Cloud. The company needs the ability to use SMB clients to access data. The solution must be fully managed.

Which AWS solution meets these requirements?

A. Create an AWS DataSync task that shares the data as a mountable file system. Mount the file system to the application server.

B. Create an Amazon EC2 Windows instance. Install and configure a Windows file share role on the instance. Connect the application server to the file share.

C. Create an Amazon FSx for Windows File Server file system. Attach the file system to the origin server. Connect the application server to the file system.

D. Create an Amazon S3 bucket. Assign an IAM role to the application to grant access to the S3 bucket. Mount the S3 bucket to the application server.

Correct Answer: C

Community vote distribution

C (100%)

- rrharris (Highly Voted 1) 1 year, 3 months ago Answer is C - SMB = storage gateway or FSx upvoted 8 times
- Neha999 Highly Voted 1 1 year, 3 months ago C L: Amazon FSx for Windows File Server file system upvoted 5 times

😑 🛔 phuonglai Most Recent 🔿 4 months ago

Selected Answer: C

SMB -> FSx upvoted 3 times

E **L** TariqKipkemei 8 months, 1 week ago

Selected Answer: C

SMB = FSx for Windows File Server upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: C

Answer is C - SMB = storage gateway or FSx upvoted 2 times

😑 🌲 kruasan 1 year, 1 month ago

Selected Answer: C

• Amazon FSx for Windows File Server provides a fully managed native Windows file system that can be accessed using the industry-standard SMB protocol. This allows Windows clients like the gaming application to directly access file data.

• FSx for Windows File Server handles time-consuming file system administration tasks like provisioning, setup, maintenance, file share

management, backups, security, and software patching - reducing operational overhead.

• FSx for Windows File Server supports high file system throughput, IOPS, and consistent low latencies required for performance-sensitive workloads. This makes it suitable for a gaming application.

• The file system can be directly attached to EC2 instances, providing a performant shared storage solution for the gaming servers. upvoted 4 times

😑 💄 kruasan 1 year, 1 month ago

Option A - DataSync is for data transfer, not providing a shared file system. It cannot be mounted or directly accessed.

Option B - A self-managed EC2 file share would require manually installing, configuring and maintaining a Windows file system and share. This demands significant overhead to operate.

Option D - Amazon S3 is object storage, not a native file system. The data in S3 would need to be converted/formatted to provide file share access, adding complexity. S3 cannot be directly mounted or provide the performance of FSx.

upvoted 4 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: C

Amazon FSx for Windows File Server

upvoted 1 times

😑 💄 Steve_4542636 1 year, 3 months ago

Selected Answer: C

I vote C since FSx supports SMB upvoted 1 times

😑 🌲 LuckyAro 1 year, 3 months ago

Selected Answer: C

AWS FSx for Windows File Server is a fully managed native Microsoft Windows file system that is accessible through the SMB protocol. It provides features such as file system backups, integrated with Amazon S3, and Active Directory integration for user authentication and access control. This solution allows for the use of SMB clients to access the data and is fully managed, eliminating the need for the company to manage the underlying infrastructure.

upvoted 2 times

😑 🚢 Babba 1 year, 3 months ago

Selected Answer: C

C for me

upvoted 1 times

A company wants to run an in-memory database for a latency-sensitive application that runs on Amazon EC2 instances. The application processes more than 100,000 transactions each minute and requires high network throughput. A solutions architect needs to provide a cost-effective network design that minimizes data transfer charges.

Which solution meets these requirements?

A. Launch all EC2 instances in the same Availability Zone within the same AWS Region. Specify a placement group with cluster strategy when launching EC2 instances.

B. Launch all EC2 instances in different Availability Zones within the same AWS Region. Specify a placement group with partition strategy when launching EC2 instances.

C. Deploy an Auto Scaling group to launch EC2 instances in different Availability Zones based on a network utilization target.

D. Deploy an Auto Scaling group with a step scaling policy to launch EC2 instances in different Availability Zones.

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 kruasan (Highly Voted 🖬) 1 year, 1 month ago

Selected Answer: A

Reasons:

• Launching instances within a single AZ and using a cluster placement group provides the lowest network latency and highest bandwidth betweer instances. This maximizes performance for an in-memory database and high-throughput application.

• Communications between instances in the same AZ and placement group are free, minimizing data transfer charges. Inter-AZ and public IP traffican incur charges.

• A cluster placement group enables the instances to be placed close together within the AZ, allowing the high network throughput required. Partition groups span AZs, reducing bandwidth.

• Auto Scaling across zones could launch instances in AZs that increase data transfer charges. It may reduce network throughput, impacting performance.

upvoted 17 times

😑 💄 kruasan 1 year, 1 month ago

In contrast:

Option B - A partition placement group spans AZs, reducing network bandwidth between instances and potentially increasing costs. Option C - Auto Scaling alone does not guarantee the network throughput and cost controls required for this use case. Launching across AZs could increase data transfer charges.

Option D - Step scaling policies determine how many instances to launch based on metrics alone. They lack control over network connectivity and costs between instances after launch.

upvoted 9 times

😑 📥 awsgeek75 Most Recent 🕐 4 months, 3 weeks ago

Selected Answer: A

Apart from the fact that BCD distribute the instances across AZ which is bad for inter-node network latency, I think the following article is really useful in understanding A:

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html

upvoted 1 times

😑 🌲 Ruffyit 6 months, 4 weeks ago

• Launching instances within a single AZ and using a cluster placement group provides the lowest network latency and highest bandwidth betweer instances. This maximizes performance for an in-memory database and high-throughput application.

• Communications between instances in the same AZ and placement group are free, minimizing data transfer charges. Inter-AZ and public IP traffican incur charges.

• A cluster placement group enables the instances to be placed close together within the AZ, allowing the high network throughput required. Partition groups span AZs, reducing bandwidth.

upvoted 1 times

E **L** TariqKipkemei 8 months, 1 week ago

Selected Answer: A

Cluster placement group packs instances close together inside an Availability Zone. This strategy enables workloads to achieve the low-latency network performance.

upvoted 4 times

Guru4Cloud 9 months, 1 week ago

Selected Answer: A

Launch all EC2 instances in the same Availability Zone within the same AWS Region. Specify a placement group with cluster strategy when launching EC2 instances

upvoted 1 times

😑 💄 NoinNothing 1 year, 1 month ago

Selected Answer: A

Cluster - have low latency if its in same AZ and same region so Answer is "A" upvoted 2 times

😑 💄 BeeKayEnn 1 year, 2 months ago

Answer would be A - As part of selecting all the EC2 instances in the same availability zone, they all will be within the same DC and logically the latency will be very less as compared to the other Availability Zones..

As all the autoscaling nodes will also be on the same availability zones, (as per Placement groups with Cluster mode), this would provide the lowlatency network performance

Reference is below: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html upvoted 3 times

🖃 👗 [Removed] 1 year, 2 months ago

Selected Answer: A

A - Low latency, high net throughput upvoted 1 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: A

A placement group is a logical grouping of instances within a single Availability Zone, and it provides low-latency network connectivity between instances. By launching all EC2 instances in the same Availability Zone and specifying a placement group with cluster strategy, the application can take advantage of the high network throughput and low latency network connectivity that placement groups provide.

□ ▲ Steve_4542636 1 year, 3 months ago

Selected Answer: A

Cluster placement groups improves throughput between the instances which means less EC2 instances would be needed thus reducing costs. upvoted 1 times

😑 🌲 maciekmaciek 1 year, 3 months ago

Selected Answer: A

A because Specify a placement group upvoted 1 times

😑 🌲 KZM 1 year, 3 months ago

It is option A:

To achieve low latency, high throughput, and cost-effectiveness, the optimal solution is to launch EC2 instances as a placement group with the cluster strategy within the same Availability Zone.

upvoted 2 times

😑 🏝 ManOnTheMoon 1 year, 3 months ago

Why not C? upvoted 1 times

😑 🌲 Steve_4542636 1 year, 3 months ago

You're thinking operational efficiency. The question asks for cost reduction. upvoted 3 times

😑 🏝 rrharris 1 year, 3 months ago

Answer is A - Clustering

upvoted 2 times

😑 💄 Neha999 1 year, 3 months ago

A : Cluster placement group upvoted 4 times A company that primarily runs its application servers on premises has decided to migrate to AWS. The company wants to minimize its need to scale its Internet Small Computer Systems Interface (iSCSI) storage on premises. The company wants only its recently accessed data to remain stored locally.

Which AWS solution should the company use to meet these requirements?

- A. Amazon S3 File Gateway
- B. AWS Storage Gateway Tape Gateway
- C. AWS Storage Gateway Volume Gateway stored volumes
- D. AWS Storage Gateway Volume Gateway cached volumes

Correct Answer: A

Community vote distribution

D (100%)

😑 👗 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: D

AWS Storage Gateway Volume Gateway provides two configurations for connecting to iSCSI storage, namely, stored volumes and cached volumes. The stored volume configuration stores the entire data set on-premises and asynchronously backs up the data to AWS. The cached volume configuration stores recently accessed data on-premises, and the remaining data is stored in Amazon S3.

Since the company wants only its recently accessed data to remain stored locally, the cached volume configuration would be the most appropriate It allows the company to keep frequently accessed data on-premises and reduce the need for scaling its iSCSI storage while still providing access t all data through the AWS cloud. This configuration also provides low-latency access to frequently accessed data and cost-effective off-site backups for less frequently accessed data.

upvoted 38 times

😑 🌲 smgsi (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: D

https://docs.amazonaws.cn/en_us/storagegateway/latest/vgw/StorageGatewayConcepts.html#storage-gateway-cached-concepts upvoted 7 times

😑 👗 TariqKipkemei (Most Recent 🕗) 8 months, 1 week ago

Selected Answer: D

Frequently accessed data = AWS Storage Gateway Volume Gateway cached volumes upvoted 3 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: D

The best AWS solution to meet the requirements is to use AWS Storage Gateway cached volumes (option D).

The key points:

Company migrating on-prem app servers to AWS Want to minimize scaling on-prem iSCSI storage Only recent data should remain on-premises The AWS Storage Cateway cached volumes allow the c

The AWS Storage Gateway cached volumes allow the company to connect their on-premises iSCSI storage to AWS cloud storage. It stores

frequently accessed data locally in the cache for low-latency access, while older data is stored in AWS. upvoted 2 times

😑 📥 kruasan 1 year, 1 month ago

Selected Answer: D

• Volume Gateway cached volumes store entire datasets on S3, while keeping a portion of recently accessed data on your local storage as a cache. This meets the goal of minimizing on-premises storage needs while keeping hot data local.

• The cache provides low-latency access to your frequently accessed data, while long-term retention of the entire dataset is provided durable and cost-effective in S3.

• You get virtually unlimited storage on S3 for your infrequently accessed data, while controlling the amount of local storage used for cache. This simplifies on-premises storage scaling.

• Volume Gateway cached volumes support iSCSI connections from on-premises application servers, allowing a seamless migration experience. Servers access local cache and S3 storage volumes as iSCSI LUNs.

upvoted 6 times

😑 🌲 kruasan 1 year, 1 month ago

In contrast:

Option A - S3 File Gateway only provides file interfaces (NFS/SMB) to data in S3. It does not support block storage or cache recently accessed data locally.

Option B - Tape Gateway is designed for long-term backup and archiving to virtual tape cartridges on S3. It does not provide primary storage volumes or local cache for low-latency access.

Option C - Volume Gateway stored volumes keep entire datasets locally, then asynchronously back them up to S3. This does not meet the goal of minimizing on-premises storage needs.

upvoted 4 times

😑 🌢 Steve_4542636 1 year, 3 months ago

Selected Answer: D

l vote D upvoted 1 times

😑 🌲 ManOnTheMoon 1 year, 3 months ago

Agree with D upvoted 1 times

😑 🌲 Babba 1 year, 3 months ago

Selected Answer: D

recently accessed data to remain stored locally - cached upvoted 3 times

😑 💄 Bhawesh 1 year, 3 months ago

Selected Answer: D

D. AWS Storage Gateway Volume Gateway cached volumes upvoted 3 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: D

recently accessed data to remain stored locally - cached upvoted 3 times

Question #308

A company has multiple AWS accounts that use consolidated billing. The company runs several active high performance Amazon RDS for Oracle On-Demand DB instances for 90 days. The company's finance team has access to AWS Trusted Advisor in the consolidated billing account and all other AWS accounts.

The finance team needs to use the appropriate AWS account to access the Trusted Advisor check recommendations for RDS. The finance team must review the appropriate Trusted Advisor check to reduce RDS costs.

Which combination of steps should the finance team take to meet these requirements? (Choose two.)

- A. Use the Trusted Advisor recommendations from the account where the RDS instances are running.
- B. Use the Trusted Advisor recommendations from the consolidated billing account to see all RDS instance checks at the same time.
- C. Review the Trusted Advisor check for Amazon RDS Reserved Instance Optimization.
- D. Review the Trusted Advisor check for Amazon RDS Idle DB Instances.
- E. Review the Trusted Advisor check for Amazon Redshift Reserved Node Optimization.

Correct Answer: AC

Community vote distribution

BC (38%)

😑 💄 Nietzsche82 (Highly Voted 🖬) 1 year, 3 months ago

BD (60%)

Selected Answer: BD

B & D

https://aws.amazon.com/premiumsupport/knowledge-center/trusted-advisor-cost-optimization/ upvoted 18 times

😑 💄 sandordini (Most Recent 🕗) 1 month, 4 weeks ago

Selected Answer: BD

"you can reserve a DB instance for a one- or three-year term". We only have data for 90 days. I feel it too risky to commit for 1/3 year(s) without information on future usage. If we knew that we expected the same usage pattern for the next 1,2,3 years, Id agree with C. upvoted 2 times

😑 🎩 soufiyane 2 months ago

Selected Answer: BC

B) Use the Trusted Advisor recommendations from the consolidated billing account to see all RDS instance checks at the same time. This option allows the finance team to see all RDS instance checks across all AWS accounts in one place. Since the company uses consolidated billing, this account will have access to all of the AWS accounts' Trusted Advisor recommendations.

C) Review the Trusted Advisor check for Amazon RDS Reserved Instance Optimization. This check can help identify cost savings opportunities for RDS by identifying instances that can be covered by Reserved Instances. This can result in significant savings on RDS costs. upvoted 1 times

😑 💄 scar0909 3 months ago

Selected Answer: BC

https://aws.amazon.com/premiumsupport/knowledge-center/trusted-advisor-cost-optimization/ upvoted 1 times

😑 🌲 bujuman 3 months ago

Selected Answer: BD

Insights: The company runs several active high performance Amazon RDS for Oracle On-Demand DB instances for 90 days So it's clear that this company need to check the configuration of any Amazon Relational Database Service (Amazon RDS) for any database (DB) instances that appear to be idle.

upvoted 1 times

E & dkw2342 3 months, 1 week ago

B&C

AWS Trusted Advisor is an online resource to help you reduce cost, increase performance, and improve security by optimizing your AWS environment. (...) Recommendations are based on the previous calendar month's hour-by-hour usage aggregated across all consolidated billing accounts.

https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-reservation-models/aws-trusted-advisor.html

Amazon EC2 Reserved Instance Optimization: An important part of using AWS involves balancing your Reserved Instance (RI) purchase against you

On-Demand Instance usage. This check provides recommendations on which RIs will help reduce the costs incurred from using On-Demand Instances. We create these recommendations by analyzing your On-Demand usage for the past 30 days. We then categorizing the usage into eligible categories for reservations.

https://docs.aws.amazon.com/awssupport/latest/user/cost-optimization-checks.html#amazon-ec2-reserved-instances-optimization upvoted 1 times

😑 💄 NayeraB 3 months, 3 weeks ago

Selected Answer: BC

If you're choosing D for the idle instances, Amazon RDS Reserved Instance Optimization Trusted Advisor check includes recommendations related to underutilized and idle RDS instances. It helps identify instances that are not fully utilized and provides recommendations on how to optimize costs, such as resizing or terminating unused instances, or purchasing reserved instances to match usage patterns more efficiently. upvoted 1 times

😑 🆀 leejwli 4 months, 3 weeks ago

Selected Answer: BC

Reserved Instances can be shared across accounts, and that is the reason why we need to check the consolidated bill. upvoted 2 times

🖃 上 farnamjam 5 months, 2 weeks ago

Selected Answer: BC

BC

we don't want to check Idle instances because the instances were active for last 90 days. Idle means it was inactive for at least 7 days.

upvoted 3 times

😑 💄 farnamjam 5 months, 2 weeks ago

Selected Answer: BD

ΒD

we don't want to check Idle instances because the instances were active for last 90 days. Idle means it was inactive for at least 7 days.

upvoted 1 times

🖃 🎍 pentium75 5 months, 2 weeks ago

Selected Answer: BC

Reserved Instance Optimization "checks your usage of RDS and provides recommendations on purchase of Reserved Instances to help reduce cost incurred from using RDS On-Demand." In other words, it is not about optimizing reserved instances (as many here think), it about optimizing ondemand instances by converting them to reserved ones.

"Idle DB Instances" check is about databases that have "not had a connection for a prolonged period of time", which we know is not the case here. upvoted 4 times

😑 🎩 Marco_St 6 months ago

Selected Answer: AD

why no one considers AD. C is not the option since reserved instance is considered in case of long-term usage while it is 90 days here. But B is using consolidated billing which covers the high level billing overview of cost but not that specific for RDS running instance. should we only need to use Trust advisor for accounts where RDS is running?

upvoted 1 times

😑 💄 EtherealBagel 6 months, 1 week ago

The question mentions that the instances are active, so it cannot be D as it checks for idle instances upvoted 1 times

😑 🌲 MiniYang 6 months, 1 week ago

Selected Answer: BC

Can someone explain why so many people say it's D and not C? It's very clear that 90 days means reserved instances. upvoted 1 times

😑 💄 MiniYang 6 months, 1 week ago

Sorry I canged the Answer C to D, Because Reserved Instances don't last for 90 days upvoted 1 times

😑 上 pentium75 5 months, 2 weeks ago

But you're wrong, C is about optimizing on-demand instances (that we have here) by converting them to reserved instances (which is what we want).

upvoted 2 times

E & AZ_Master 6 months, 3 weeks ago

Selected Answer: BD

Answer is B & D because you can view from consolidated billing account and since RDS instances are on-demand for 90 days. There is no reserved instances. So, there is no need to check for RDS Reserved Instance Optimization. upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

"There is no reserved instances. So, there is no need to check for RDS Reserved Instance Optimization", no exactly BECAUSE of that there is the need. "RDS Reserved Instance Optimization ... provides recommendations on purchase of Reserved Instances to help reduce costs incurred from using RDS On-Demand."

upvoted 2 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Selected Answer: BD

Use the Trusted Advisor recommendations from the consolidated billing account to see all RDS instance checks at the same time and review the Trusted Advisor check for Amazon RDS Idle DB Instances upvoted 2 times

😑 💄 ambermeh 8 months, 2 weeks ago

B & D is correct answer after research upvoted 1 times

A solutions architect needs to optimize storage costs. The solutions architect must identify any Amazon S3 buckets that are no longer being accessed or are rarely accessed.

Which solution will accomplish this goal with the LEAST operational overhead?

A. Analyze bucket access patterns by using the S3 Storage Lens dashboard for advanced activity metrics.

B. Analyze bucket access patterns by using the S3 dashboard in the AWS Management Console.

C. Turn on the Amazon CloudWatch BucketSizeBytes metric for buckets. Analyze bucket access patterns by using the metrics data with Amazon Athena.

D. Turn on AWS CloudTrail for S3 object monitoring. Analyze bucket access patterns by using CloudTrail logs that are integrated with Amazon CloudWatch Logs.

Correct Answer: D

Community vote distribution

8%

😑 👗 kpato87 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

S3 Storage Lens is a fully managed S3 storage analytics solution that provides a comprehensive view of object storage usage, activity trends, and recommendations to optimize costs. Storage Lens allows you to analyze object access patterns across all of your S3 buckets and generate detailed metrics and reports.

upvoted 20 times

😑 🛔 AmijoSando (Most Recent 🕗) 1 month ago

Anyone passed the exam can confirm the right answer ? A or D upvoted 1 times

A (92%)

😑 💄 xyGGXH 3 months, 1 week ago

Selected Answer: A

А

S3 Storage Lens is the first cloud storage analytics solution to provide a single view of object storage usage and activity across hundreds, or even thousands, of accounts in an organization, with drill-downs to generate insights at multiple aggregation levels. upvoted 2 times

😑 🌲 Neung983 3 months, 3 weeks ago

On the other hand, Option B suggests using the S3 dashboard in the AWS Management Console, which provides a straightforward and userfriendly interface to monitor S3 bucket access patterns. This option may have less operational overhead compared to setting up and managing Storage Lens. Additionally, for simply identifying rarely accessed buckets, the built-in metrics and access analysis provided by the S3 dashboard car often suffice without the need for advanced analytics offered by Storage Lens. Therefore, Option B is considered to have less operational overhead for the specific task described in the question.

upvoted 1 times

😑 🌲 jaswantn 4 months ago

But nowhere on S3 Storage Lens dashboard this information is available; that when the bucket is accessed last time. But it gives insight on the bucket's size. with this information we can check if files can be moved to less costly storage class. This way we can reduce storage cost..... The information which is the main requirement of the given scenario, is available when we use Cloudtrail logs ... so i choose option D.

upvoted 1 times

😑 💄 jaswantn 4 months ago

if the bucket is being accessed frequently then we can leave it as it is, otherwise we can move the files to infrequent access storage class thus can save some money.

upvoted 1 times

😑 🌲 Ruffyit 6 months, 4 weeks ago

S3 Storage Lens is a fully managed S3 storage analytics solution that provides a comprehensive view of object storage usage, activity trends, and recommendations to optimize costs. Storage Lens allows you to analyze object access patterns across all of your S3 buckets and generate detailed metrics and reports.

upvoted 1 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Selected Answer: A

Amazon S3 Storage Lens was designed to handle this requirement. upvoted 1 times

🖃 👗 Wayne23Fang 9 months, 1 week ago

Selected Answer: D

A missed turning on monitoring. It can also help you learn about your customer base and understand your Amazon S3 bill. By default, Amazon S3 doesn't collect server access logs. When you enable logging, Amazon S3 delivers access logs for a source bucket to a target bucket that you choose.

I could not find that S3 storage Lens examples online showing using Lens to identify idle S3 buckets. Instead I find using S3 Access Logging. Hmm. upvoted 3 times

🖃 🎍 pentium75 5 months, 2 weeks ago

How will you find when a bucket was used the last time if you turn on logging NOW? upvoted 1 times

🖃 👗 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

S3 Storage Lens is a cloud-storage analytics feature that provides you with 29+ usage and activity metrics, including object count, size, age, and access patterns. This data can help you understand how your data is being used and identify areas where you can optimize your storage costs. The S3 Storage Lens dashboard provides an interactive view of your storage usage and activity trends. This makes it easy to identify buckets that are no longer being accessed or are rarely accessed.

The S3 Storage Lens dashboard is a fully managed service, so there is no need to set up or manage any additional infrastructure. upvoted 1 times

😑 🆀 BigHammer 9 months, 1 week ago

"S3 Storage Lens" seems to be the popular answer, however, where in Storage Lens can you see if a bucket/object is being USED? I see all kinds of stats, but not that.

upvoted 2 times

😑 💄 Guru4Cloud 9 months, 1 week ago

https://aws.amazon.com/blogs/aws/s3-storage-lens/ upvoted 2 times

😑 🆀 kruasan 1 year, 1 month ago

Selected Answer: A

The S3 Storage Lens dashboard provides visibility into storage metrics and activity patterns to help optimize storage costs. It shows metrics like objects added, objects deleted, storage consumed, and requests. It can filter by bucket, prefix, and tag to analyze specific subsets of data upvoted 3 times

😑 🆀 kruasan 1 year, 1 month ago

B) The standard S3 console dashboard provides basic info but would require manually analyzing metrics for each bucket. This does not scale well and requires significant overhead.

C) Turning on the BucketSizeBytes metric and analyzing the data in Athena may provide insights but would require enabling metrics, building Athena queries, and analyzing the results. This requires more operational effort than option A.

D) Enabling CloudTrail logging and monitoring the logs in CloudWatch Logs could provide access pattern data but would require setting up CloudTrail, monitoring the logs, and analyzing the relevant info. This option has the highest operational overhead upvoted 4 times

😑 🆀 bdp123 1 year, 3 months ago

Selected Answer: A

https://aws.amazon.com/blogs/aws/s3-storage-lens/ upvoted 4 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: A

S3 Storage Lens provides a dashboard with advanced activity metrics that enable the identification of infrequently accessed and unused buckets. This can help a solutions architect optimize storage costs without incurring additional operational overhead. upvoted 3 times

😑 📥 Babba 1 year, 3 months ago



Selected Answer: A

it looks like it's A

upvoted 2 times

Question #310

A company sells datasets to customers who do research in artificial intelligence and machine learning (AI/ML). The datasets are large, formatted files that are stored in an Amazon S3 bucket in the us-east-1 Region. The company hosts a web application that the customers use to purchase access to a given dataset. The web application is deployed on multiple Amazon EC2 instances behind an Application Load Balancer. After a purchase is made, customers receive an S3 signed URL that allows access to the files.

The customers are distributed across North America and Europe. The company wants to reduce the cost that is associated with data transfers and wants to maintain or improve performance.

What should a solutions architect do to meet these requirements?

A. Configure S3 Transfer Acceleration on the existing S3 bucket. Direct customer requests to the S3 Transfer Acceleration endpoint. Continue to use S3 signed URLs for access control.

B. Deploy an Amazon CloudFront distribution with the existing S3 bucket as the origin. Direct customer requests to the CloudFront URL. Switch to CloudFront signed URLs for access control.

C. Set up a second S3 bucket in the eu-central-1 Region with S3 Cross-Region Replication between the buckets. Direct customer requests to the closest Region. Continue to use S3 signed URLs for access control.

D. Modify the web application to enable streaming of the datasets to end users. Configure the web application to read the data from the existing S3 bucket. Implement access control directly in the application.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: B

To reduce the cost associated with data transfers and maintain or improve performance, a solutions architect should use Amazon CloudFront, a content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency and high transfer speeds.

Deploying a CloudFront distribution with the existing S3 bucket as the origin will allow the company to serve the data to customers from edge locations that are closer to them, reducing data transfer costs and improving performance.

Directing customer requests to the CloudFront URL and switching to CloudFront signed URLs for access control will enable customers to access the data securely and efficiently.

upvoted 9 times

😑 🌲 awsgeek75 (Highly Voted 🖬) 4 months, 3 weeks ago

Selected Answer: B

- A: Speeds uploads
- C: Increases the cost rather than reducing it
- D: Stopped reading after "Modify the web application..."
- upvoted 6 times

😑 💄 Ruffyit (Most Recent 🕑) 6 months, 4 weeks ago

To reduce the cost associated with data transfers and maintain or improve performance, a solutions architect should use Amazon CloudFront, a content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency and high transfer speeds.

upvoted 1 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Selected Answer: B

Technically both option B and C will work. But because cost is a factor then Amazon CloudFront should be the preferred option. upvoted 1 times

😑 🌲 react97 8 months, 2 weeks ago

Selected Answer: B

В.

 Amazon CloudFront caches content at edge locations -- reducing the need for frequent data transfer from S3 bucket -- thus significantly lowering data transfer costs (as compared to directly serving data from S3 bucket to customers in different regions)
 CloudFront delivers content to users from the nearest edge location -- minimizing latency -- improves performance for customers

A - focus on accelerating uploads to S3 which may not necessarily improve the performance needed for serving datasets to customers

- C helps with redundancy and data availability but does not necessarily offer cost savings for data transfer.
- D complex to implement, does not address data transfer cost

upvoted 4 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: B

https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/PrivateContent.html upvoted 3 times

😑 🌲 Bhawesh 1 year, 3 months ago

Selected Answer: B

B. Deploy an Amazon CloudFront distribution with the existing S3 bucket as the origin. Direct customer requests to the CloudFront URL. Switch to CloudFront signed URLs for access control.

https://www.examtopics.com/discussions/amazon/view/68990-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 2 times

A company is using AWS to design a web application that will process insurance quotes. Users will request quotes from the application. Quotes must be separated by quote type, must be responded to within 24 hours, and must not get lost. The solution must maximize operational efficiency and must minimize maintenance.

Which solution meets these requirements?

A. Create multiple Amazon Kinesis data streams based on the quote type. Configure the web application to send messages to the proper data stream. Configure each backend group of application servers to use the Kinesis Client Library (KCL) to pool messages from its own data stream.

B. Create an AWS Lambda function and an Amazon Simple Notification Service (Amazon SNS) topic for each quote type. Subscribe the Lambda function to its associated SNS topic. Configure the application to publish requests for quotes to the appropriate SNS topic.

C. Create a single Amazon Simple Notification Service (Amazon SNS) topic. Subscribe Amazon Simple Queue Service (Amazon SQS) queues to the SNS topic. Configure SNS message filtering to publish messages to the proper SQS queue based on the quote type. Configure each backend application server to use its own SQS queue.

D. Create multiple Amazon Kinesis Data Firehose delivery streams based on the quote type to deliver data streams to an Amazon OpenSearch Service cluster. Configure the application to send messages to the proper delivery stream. Configure each backend group of application servers to search for the messages from OpenSearch Service and process them accordingly.

Correct Answer: D

Community vote distribution

C (100%)

😑 👗 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C

Quote types need to be separated: SNS message filtering can be used to publish messages to the appropriate SQS queue based on the quote type ensuring that quotes are separated by type.

Quotes must be responded to within 24 hours and must not get lost: SQS provides reliable and scalable queuing for messages, ensuring that quotes will not get lost and can be processed in a timely manner. Additionally, each backend application server can use its own SQS queue, ensuring that quotes are processed efficiently without any delay.

Operational efficiency and minimizing maintenance: Using a single SNS topic and multiple SQS queues is a scalable and cost-effective approach, which can help to maximize operational efficiency and minimize maintenance. Additionally, SNS and SQS are fully managed services, which means that the company will not need to worry about maintenance tasks such as software updates, hardware upgrades, or scaling the infrastructure. upvoted 15 times

😑 🌲 Vlad (Highly Voted 🖬 1 year, 3 months ago

C is the best option upvoted 8 times

😑 👗 Uzbekistan (Most Recent 🕐) 3 months, 1 week ago

Option C would be the most suitable solution to meet the requirements while maximizing operational efficiency and minimizing maintenance.

Explanation:

Amazon SNS (Simple Notification Service) allows for the creation of a single topic to which multiple subscribers can be attached. In this scenario, each quote type can be considered a subscriber. Amazon SQS (Simple Queue Service) queues can be subscribed to the SNS topic, and SNS message filtering can be used to direct messages to the appropriate SQS queue based on the quote type. This setup ensures that quotes are separated by quote type and that they are not lost. Each backend application server can then poll its own SQS queue to retrieve and process messages. This architecture is efficient, scalable, and requires minimal maintenance, as it leverages managed AWS services without the need for complex custom code or infrastructure setup.

upvoted 3 times

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: C

I originally went for D due to searching requirements but Open Search is for analytics and logs and nothing to do with data coming from streams as in this question.

upvoted 1 times

🖯 💄 Ruffyit 7 months ago

Quote types need to be separated: SNS message filtering can be used to publish messages to the appropriate SQS queue based on the quote type ensuring that quotes are separated by type.

Quotes must be responded to within 24 hours and must not get lost: SQS provides reliable and scalable queuing for messages, ensuring that quotes will not get lost and can be processed in a timely manner. Additionally, each backend application server can use its own SQS queue, ensuring that quotes are processed efficiently without any delay.

Operational efficiency and minimizing maintenance: Using a single SNS topic and multiple SQS queues is a scalable and cost-effective approach, which can help to maximize operational efficiency and minimize maintenance. Additionally, SNS and SQS are fully managed services, which means that the company will not need to worry about maintenance tasks such as software updates, hardware upgrades, or scaling the upvoted 1 times

😑 💄 tekjm 8 months ago

Keyword is "..and must not get lost" = SQS upvoted 2 times

😑 👗 Guru4Cloud 9 months, 1 week ago

Selected Answer: C

Create a single SNS topic Subscribe separate SQS queues per quote type Use SNS message filtering to send messages to proper queue Backend servers poll their respective SQS queue The key points:

Quote requests must be processed within 24 hrs without loss Need to maximize efficiency and minimize maintenance Requests separated by quote type upvoted 1 times

😑 💄 lexotan 1 year, 1 month ago

Selected Answer: C

This wrong answers from examtopic are getting me so frustrated. Which one is the correct answer then? upvoted 5 times

😑 🌲 Steve_4542636 1 year, 3 months ago

Selected Answer: C

This is the SNS fan-out technique where you will have one SNS service to many SQS services https://docs.aws.amazon.com/sns/latest/dg/sns-sqs-as-subscriber.html upvoted 6 times

😑 🌲 UnluckyDucky 1 year, 2 months ago

SNS Fan-out fans message to all subscribers, this uses SNS filtering to publish the message only to the right SQS queue (not all of them). upvoted 2 times

😑 🏝 Yechi 1 year, 3 months ago

Selected Answer: C

https://aws.amazon.com/getting-started/hands-on/filter-messages-published-to-topics/ upvoted 7 times

Which solution will meet these requirements in the MOST operationally efficient way?

A. Write an AWS Lambda function that schedules nightly snapshots of the application's EBS volumes and copies the snapshots to a different Region.

B. Create a backup plan by using AWS Backup to perform nightly backups. Copy the backups to another Region. Add the application's EC2 instances as resources.

C. Create a backup plan by using AWS Backup to perform nightly backups. Copy the backups to another Region. Add the application's EBS volumes as resources.

D. Write an AWS Lambda function that schedules nightly snapshots of the application's EBS volumes and copies the snapshots to a different Availability Zone.

8%

Correct Answer: C

Community vote distribution

😑 👗 khasport (Highly Voted 🖬) 1 year, 3 months ago

B (92%)

B is answer so the requirement is "The application's EC2 instance configuration and data need to be backed up nightly" so we need "add the application's EC2 instances as resources". This option will backup both EC2 configuration and data upvoted 18 times

E La TungPham (Highly Voted) 1 year, 3 months ago

Selected Answer: B

https://aws.amazon.com/vi/blogs/aws/aws-backup-ec2-instances-efs-single-file-restore-and-cross-region-backup/ When you back up an EC2 instance, AWS Backup will protect all EBS volumes attached to the instance, and it will attach them to an AMI that stores all parameters from the original EC2 instance except for two upvoted 14 times

😑 👗 raymondfekry (Most Recent 🕐) 5 months, 3 weeks ago

Selected Answer: B

Question says: "The application's EC2 instance configuration and data need to be backed up", thus C is not correct, B is upvoted 1 times

😑 🌡 Ruffyit 7 months ago

https://aws.amazon.com/vi/blogs/aws/aws-backup-ec2-instances-efs-single-file-restore-and-cross-region-backup/ When you back up an EC2 instance, AWS Backup will protect all EBS volumes attached to the instance, and it will attach them to an AMI that stores all parameters from the original EC2 instance except for two upvoted 1 times

😑 💄 TariqKipkemei 8 months, 1 week ago

Selected Answer: B

As part of configuring a backup plan you need to enable (opt-in) resource types that will be protected by the backup plan. For this case EC2.

https://aws.amazon.com/getting-started/hands-on/amazon-ec2-backup-and-restore-using-aws-backup/#:~:text=the%20services%20used%20with-,AWS%20Backup,-a.%20In%20the%20navigation upvoted 1 times

Guru4Cloud 9 months, 1 week ago

Selected Answer: B

B is the most appropriate solution because it allows you to create a backup plan to automate the backup process of EC2 instances and EBS volumes, and copy backups to another region. Additionally, you can add the application's EC2 instances as resources to ensure their configuration and data are backed up nightly.

upvoted 1 times

😑 💄 Geekboii 1 year, 2 months ago

i would say B

upvoted 1 times

Geekboii 1 year, 2 months ago

i would say B

upvoted 1 times

□ ▲ AlmeroSenior 1 year, 3 months ago

Selected Answer: B

AWS KB states if you select the EC2 instance , associated EBS's will be auto covered .

https://aws.amazon.com/blogs/aws/aws-backup-ec2-instances-efs-single-file-restore-and-cross-region-backup/ upvoted 2 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: B

B is the most appropriate solution because it allows you to create a backup plan to automate the backup process of EC2 instances and EBS volumes, and copy backups to another region. Additionally, you can add the application's EC2 instances as resources to ensure their configuration and data are backed up nightly.

A and D involve writing custom Lambda functions to automate the snapshot process, which can be complex and require more maintenance effort. Moreover, these options do not provide an integrated solution for managing backups and recovery, and copying snapshots to another region.

Option C involves creating a backup plan with AWS Backup to perform backups for EBS volumes only. This approach would not back up the EC2 instances and their configuration

upvoted 2 times

😑 🌲 Mia2009687 11 months, 1 week ago

The data is stored in the EBS storage volume, EC2 won't hold the data, I think we need "Add the application's EBS volumes as resources." upvoted 2 times

😑 🌲 everfly 1 year, 3 months ago

Selected Answer: C

The application's EC2 instance configuration and data are stored on EBS volume right? upvoted 2 times

😑 💄 awsgeek75 4 months, 3 weeks ago

No, ECS config is the config you provide when launching the EC2 instance. EBS is a resource for EC2 as a part of configuration. When you backup EC2, it will backup the instance which resulted from the configuration and that will include the EBS volumes that are attached to the instance.

upvoted 2 times

😑 💄 pentium75 5 months, 2 weeks ago

No, this is not how EC2 works. upvoted 1 times

😑 🌡 Rehan33 1 year, 3 months ago

The data is store on EBS volume so why we are not using EBS as a source instead of EC2 upvoted 1 times

😑 💄 obatunde 1 year, 3 months ago

Because "The application's EC2 instance configuration and data need to be backed up nightly" upvoted 5 times

😑 👗 thewalker 4 months, 3 weeks ago

Also, if EBS volumes are added or removed as the requirement, not need to update the AWS Config. upvoted 1 times

😑 💄 fulingyu288 1 year, 3 months ago

Selected Answer: B

Use AWS Backup to create a backup plan that includes the EC2 instances, Amazon EBS snapshots, and any other resources needed for recovery. The backup plan can be configured to run on a nightly schedule.

🖃 👗 zTopic 1 year, 3 months ago

Selected Answer: B

The application's EC2 instance configuration and data need to be backed up nightly >> B upvoted 1 times

😑 🌲 NolaHOla 1 year, 3 months ago

But isn't the data needed to be backed up on the EBS ? upvoted 1 times

A company is building a mobile app on AWS. The company wants to expand its reach to millions of users. The company needs to build a platform so that authorized users can watch the company's content on their mobile devices.

What should a solutions architect recommend to meet these requirements?

- A. Publish content to a public Amazon S3 bucket. Use AWS Key Management Service (AWS KMS) keys to stream content.
- B. Set up IPsec VPN between the mobile app and the AWS environment to stream content.
- C. Use Amazon CloudFront. Provide signed URLs to stream content.
- D. Set up AWS Client VPN between the mobile app and the AWS environment to stream content.

Correct Answer: C

Community vote distribution

C (100%)

E & Steve_4542636 Highly Voted 1 year, 3 months ago

Selected Answer: C

Enough with CloudFront already. upvoted 26 times

😑 🌲 TariqKipkemei 1 year, 1 month ago

Hahaha..cloudfront too hyped :) upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

This whole exam seems like a sales pitch for CloudFront and SQS... lol! upvoted 4 times

😑 🚢 LuckyAro (Highly Voted 🖬 1 year, 3 months ago

Selected Answer: C

Amazon CloudFront is a content delivery network (CDN) that securely delivers data, videos, applications, and APIs to customers globally with low latency and high transfer speeds. CloudFront supports signed URLs that provide authorized access to your content. This feature allows the company to control who can access their content and for how long, providing a secure and scalable solution for millions of users. upvoted 6 times

😑 🌲 mwwt2022 5 months, 1 week ago

great explanation! upvoted 1 times

😑 👗 lostmagnet001 (Most Recent 🕑 4 months ago

Selected Answer: C

CF always for reaching places upvoted 2 times

😑 🌲 Ruffyit 7 months ago

Use Amazon CloudFront. Provide signed URLs to stream content. upvoted 1 times

Guru4Cloud 9 months, 1 week ago

Selected Answer: C

Use Amazon CloudFront. Provide signed URLs to stream content. upvoted 2 times

😑 🌲 antropaws 1 year ago

Selected Answer: C

C is correct.

upvoted 2 times

😑 🌲 kprakashbehera 1 year, 3 months ago

Cloudfront is the correct solution. upvoted 4 times

E **datz** 1 year, 2 months ago Feel your pain :D hahaha upvoted 2 times

😑 💄 jennyka76 1 year, 3 months ago

C https://www.amazonaws.cn/en/cloudfront/ upvoted 1 times

Question #314

Which service should a solutions architect recommend?

- A. Amazon Aurora MySQL
- B. Amazon Aurora Serverless for MySQL
- C. Amazon Redshift Spectrum
- D. Amazon RDS for MySQL

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 cloudbusting (Highly Voted 🖬) 1 year, 3 months ago

"without selecting a particular instance type" = serverless upvoted 26 times

😑 💄 elearningtakai (Highly Voted 🐽) 1 year, 2 months ago

Selected Answer: B

With Aurora Serverless for MySQL, you don't need to select a particular instance type, as the service automatically scales up or down based on the application's needs.

upvoted 8 times

😑 🌲 awsgeek75 (Most Recent 🕐) 4 months, 3 weeks ago

Selected Answer: B

The DBA had one job and he doesn't want to do it... so B it is upvoted 4 times

😑 🌡 Ruffyit 7 months ago

without selecting a particular instance type = Amazon Aurora Serverless for MySQL upvoted 2 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Selected Answer: B

without selecting a particular instance type = Amazon Aurora Serverless for MySQL upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: B

B. Amazon Aurora Serverless for MySQL upvoted 1 times

😑 💄 Diqian 9 months, 3 weeks ago

What's the difference between A and B. I think Aurora is serverless, isn't it?

upvoted 1 times

😑 🌲 Valder21 9 months, 1 week ago

seems serverless is an option of amazon aurora. Not a very good naming scheme. upvoted 1 times

😑 🌲 Srikanth0057 1 year, 3 months ago

Selected Answer: B

Bbbbbbb

upvoted 1 times

😑 🌲 Steve_4542636 1 year, 3 months ago

Selected Answer: B

https://aws.amazon.com/rds/aurora/serverless/ upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: B

Amazon Aurora Serverless for MySQL is a fully managed, auto-scaling relational database service that scales up or down automatically based on the application demand. This service provides all the capabilities of Amazon Aurora, such as high availability, durability, and security, without requiring the customer to provision any database instances.

With Amazon Aurora Serverless for MySQL, the sales team can enjoy minimal downtime since the database is designed to automatically scale to accommodate the increased traffic. Additionally, the service allows the customer to pay only for the capacity used, making it cost-effective for infrequent access patterns.

Amazon RDS for MySQL could also be an option, but it requires the customer to select an instance type, and the database administrator would need to monitor and adjust the instance size manually to accommodate the increasing traffic. upvoted 2 times

😑 👗 Drayen25 1 year, 3 months ago

Minimal downtime points directly to Aurora Serverless upvoted 2 times

A company experienced a breach that affected several applications in its on-premises data center. The attacker took advantage of vulnerabilities in the custom applications that were running on the servers. The company is now migrating its applications to run on Amazon EC2 instances. The company wants to implement a solution that actively scans for vulnerabilities on the EC2 instances and sends a report that details the findings.

Which solution will meet these requirements?

A. Deploy AWS Shield to scan the EC2 instances for vulnerabilities. Create an AWS Lambda function to log any findings to AWS CloudTrail.

B. Deploy Amazon Macie and AWS Lambda functions to scan the EC2 instances for vulnerabilities. Log any findings to AWS CloudTrail.

C. Turn on Amazon GuardDuty. Deploy the GuardDuty agents to the EC2 instances. Configure an AWS Lambda function to automate the generation and distribution of reports that detail the findings.

D. Turn on Amazon Inspector. Deploy the Amazon Inspector agent to the EC2 instances. Configure an AWS Lambda function to automate the generation and distribution of reports that detail the findings.

Correct Answer: C

Community vote distribution

D (97%)

😑 👗 siyam008 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: D

AWS Shield for DDOS Amazon Macie for discover and protect sensitive date Amazon GuardDuty for intelligent thread discovery to protect AWS account Amazon Inspector for automated security assessment. like known Vulnerability upvoted 51 times

😑 🌲 benacert (Highly Voted 🖬) 6 months ago

Whenever I feel vulnerable, I use AWS Inspector.. upvoted 10 times

😑 👗 zinabu (Most Recent 🕐) 1 month, 3 weeks ago

Selected Answer: D

Amazon Inspector for automated security assessment. like known Vulnerability upvoted 3 times

😑 🌡 Ruffyit 7 months ago

AWS Shield for DDOS Amazon Macie for discover and protect sensitive date Amazon GuardDuty for intelligent thread discovery to protect AWS account Amazon Inspector for automated security assessment. like known Vulnerability upvoted 3 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Selected Answer: D

```
vulnerabilities = Amazon Inspector
malicious activity = Amazon GuardDuty
upvoted 6 times
```

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: D

Enable Amazon Inspector Deploy Inspector agents to EC2 instances Use Lambda to generate and distribute vulnerability reports The key points:

Migrate on-prem apps with vulnerabilities to EC2 Need active scanning of EC2 instances for vulnerabilities Require reports on findings upvoted 3 times

😑 💄 kruasan 1 year, 1 month ago

Selected Answer: D

Amazon Inspector:

• Performs active vulnerability scans of EC2 instances. It looks for software vulnerabilities, unintended network accessibility, and other security

issues.

- Requires installing an agent on EC2 instances to perform scans. The agent must be deployed to each instance.
- Provides scheduled scan reports detailing any findings of security risks or vulnerabilities. These reports can be used to patch or remediate issues.
- Is best suited for proactively detecting security weaknesses and misconfigurations in your AWS environment. upvoted 3 times

😑 💄 kruasan 1 year, 1 month ago

Amazon GuardDuty:

• Monitors for malicious activity like unusual API calls, unauthorized infrastructure deployments, or compromised EC2 instances. It uses machine learning and behavioral analysis of logs.

• Does not require installing any agents. It relies on analyzing AWS CloudTrail, VPC Flow Logs, and DNS logs.

• Alerts you to any detected threats, suspicious activity or policy violations in your AWS accounts. These alerts warrant investigation but may no always require remediation.

- Is focused on detecting active threats, unauthorized behavior, and signs of a compromise in your AWS environment.
- Can also detect some vulnerabilities and misconfigurations but coverage is not as broad as a dedicated service like Inspector. upvoted 4 times

😑 🌲 datz 1 year, 2 months ago

Selected Answer: D

Amazon Inspector is a vulnerability scanning tool that you can use to identify potential security issues within your EC2 instances.

It is a kind of automated security assessment service that checks the network exposure of your EC2 or latest security state for applications running into your EC2 instance. It has ability to auto discover your AWS workload and continuously scan for the open loophole or vulnerability. upvoted 1 times

😑 💄 shanwford 1 year, 2 months ago

Selected Answer: D

Amazon Inspector is a vulnerability scanning tool that you can use to identify potential security issues within your EC2 instances. Guard Duty continuously monitors your entire AWS account via Cloud Trail, Flow Logs, DNS Logs as Input. upvoted 1 times

😑 💄 GalileoEC2 1 year, 2 months ago

Selected Answer: C

:) C is the correct https://cloudkatha.com/amazon-guardduty-vs-inspector-which-one-should-you-use/ upvoted 1 times

😑 💄 MssP 1 year, 2 months ago

Please, read the link you sent: Amazon Inspector is a vulnerability scanning tool that you can use to identify potential security issues within you EC2 instances. GuardDuty is very critical part to identify threats, based on that findings you can setup automated preventive actions or remediation's. So Answer is D.

upvoted 1 times

😑 🌲 jayantp04 5 months, 3 weeks ago

Document itself saying that Amazon Inspector is a vulnerability scanning tool hence correct Answer is D upvoted 1 times

😑 💄 GalileoEC2 1 year, 2 months ago

Selected Answer: C

https://cloudkatha.com/amazon-guardduty-vs-inspector-which-one-should-you-use/ upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: D

Amazon Inspector is a security assessment service that helps to identify security vulnerabilities and compliance issues in applications deployed on Amazon EC2 instances. It can be used to assess the security of applications that are deployed on Amazon EC2 instances, including those that are custom-built.

To use Amazon Inspector, the Amazon Inspector agent must be installed on the EC2 instances that need to be assessed. The agent collects data about the instances and sends it to Amazon Inspector for analysis. Amazon Inspector then generates a report that details any security vulnerabilities that were found and provides guidance on how to remediate them.

By configuring an AWS Lambda function, the company can automate the generation and distribution of reports that detail the findings. This means that reports can be generated and distributed as soon as vulnerabilities are detected, allowing the company to take action quickly. upvoted 1 times

😑 💄 pbpally 1 year, 3 months ago

Selected Answer: D

I'm a little confused on how someone came up with C, it is definitely D. upvoted 1 times

😑 💄 obatunde 1 year, 3 months ago

Selected Answer: D

Amazon Inspector upvoted 2 times

😑 💄 obatunde 1 year, 3 months ago

Amazon Inspector is an automated vulnerability management service that continually scans AWS workloads for software vulnerabilities and unintended network exposure. https://aws.amazon.com/inspector/features/?nc=sn&loc=2 upvoted 3 times

😑 🏝 Palanda 1 year, 3 months ago

Selected Answer: D

I think D upvoted 1 times

😑 🛔 minglu 1 year, 3 months ago

Selected Answer: D Inspector for EC2 upvoted 1 times

😑 🌲 skiwili 1 year, 3 months ago

Selected Answer: D Ddddddd upvoted 1 times

A company uses an Amazon EC2 instance to run a script to poll for and process messages in an Amazon Simple Queue Service (Amazon SQS) queue. The company wants to reduce operational costs while maintaining its ability to process a growing number of messages that are added to the queue.

What should a solutions architect recommend to meet these requirements?

A. Increase the size of the EC2 instance to process messages faster.

B. Use Amazon EventBridge to turn off the EC2 instance when the instance is underutilized.

C. Migrate the script on the EC2 instance to an AWS Lambda function with the appropriate runtime.

D. Use AWS Systems Manager Run Command to run the script on demand.

Correct Answer: A				
Community vote distrib				
	C (89%)	11%	 	

😑 📥 kpato87 [Highly Voted 🖬] 1 year, 3 months ago

Selected Answer: C

By migrating the script to AWS Lambda, the company can take advantage of the auto-scaling feature of the service. AWS Lambda will automaticall scale resources to match the size of the workload. This means that the company will not have to worry about provisioning or managing instances as the number of messages increases, resulting in lower operational costs

upvoted 10 times

😑 💄 Guru4Cloud (Highly Voted 🖬) 9 months, 1 week ago

Selected Answer: C

The key points are:

Currently using an EC2 instance to poll SQS and process messages

Want to reduce costs while handling growing message volume

By migrating the polling script to a Lambda function, the company can avoid the cost of running a dedicated EC2 instance. Lambda functions scale automatically to handle message spikes. And Lambda billing is based on actual usage, resulting in cost savings versus provisioned EC2 capacity. upvoted 6 times

😑 💄 TariqKipkemei (Most Recent 🕗) 8 months, 1 week ago

Selected Answer: C

reduce operational costs = serverless = Lambda functions upvoted 2 times

🖃 👗 Steve_4542636 1 year, 3 months ago

Selected Answer: C

Lambda costs money only when it's processing, not when idle upvoted 3 times

😑 💄 ManOnTheMoon 1 year, 3 months ago

Agree with C upvoted 1 times

😑 🌲 khasport 1 year, 3 months ago

the answer is C. With this option, you can reduce operational cost as the question mentioned upvoted 1 times

🖃 👗 LuckyAro 1 year, 3 months ago

Selected Answer: C

AWS Lambda is a serverless compute service that allows you to run your code without provisioning or managing servers. By migrating the script to an AWS Lambda function, you can eliminate the need to maintain an EC2 instance, reducing operational costs. Additionally, Lambda automatically scales to handle the increasing number of messages in the SQS gueue.

upvoted 1 times

😑 👗 zTopic 1 year, 3 months ago

Selected Answer: C

It Should be C.

Lambda allows you to execute code without provisioning or managing servers, so it is ideal for running scripts that poll for and process messages in an Amazon SQS queue. The scaling of the Lambda function is automatic, and you only pay for the actual time it takes to process the messages. upvoted 3 times

😑 🆀 Bhawesh 1 year, 3 months ago

Selected Answer: D

To reduce the operational overhead, it should be:

D. Use AWS Systems Manager Run Command to run the script on demand. upvoted 3 times

😑 💄 lucdt4 1 year ago

No, replace EC2 instead by using lambda to reduce costs upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

So every time an item is added to the queue, you log into AWS Systems Manager through your browser, select "Run Command" and select you instance and enter the command to run the script? upvoted 2 times

Question #317

A company uses a legacy application to produce data in CSV format. The legacy application stores the output data in Amazon S3. The company is deploying a new commercial off-the-shelf (COTS) application that can perform complex SQL queries to analyze data that is stored in Amazon Redshift and Amazon S3 only. However, the COTS application cannot process the .csv files that the legacy application produces.

The company cannot update the legacy application to produce data in another format. The company needs to implement a solution so that the COTS application can use the data that the legacy application produces.

Which solution will meet these requirements with the LEAST operational overhead?

A. Create an AWS Glue extract, transform, and load (ETL) job that runs on a schedule. Configure the ETL job to process the .csv files and store the processed data in Amazon Redshift.

B. Develop a Python script that runs on Amazon EC2 instances to convert the .csv files to .sql files. Invoke the Python script on a cron schedule to store the output files in Amazon S3.

C. Create an AWS Lambda function and an Amazon DynamoDB table. Use an S3 event to invoke the Lambda function. Configure the Lambda function to perform an extract, transform, and load (ETL) job to process the .csv files and store the processed data in the DynamoDB table.

D. Use Amazon EventBridge to launch an Amazon EMR cluster on a weekly schedule. Configure the EMR cluster to perform an extract, transform, and load (ETL) job to process the .csv files and store the processed data in an Amazon Redshift table.

Correct Answer: A

Community vote distribution

A (96%)

4%

😑 🌲 awsgeek75 (Highly Voted 🐽) 4 months, 3 weeks ago

Selected Answer: A

Time to sell some Glue.

I believe these kind of questions are there to indoctrinate us into acknowledging how blessed we are to have managed services like AWS Glue when you look at other horrible and painful options

upvoted 10 times

😑 🌲 elearningtakai (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: A

A, AWS Glue is a fully managed ETL service that can extract data from various sources, transform it into the required format, and load it into a target data store. In this case, the ETL job can be configured to read the CSV files from Amazon S3, transform the data into a format that can be loaded into Amazon Redshift, and load it into an Amazon Redshift table.

B requires the development of a custom script to convert the CSV files to SQL files, which could be time-consuming and introduce additional operational overhead. C, while using serverless technology, requires the additional use of DynamoDB to store the processed data, which may not be necessary if the data is only needed in Amazon Redshift. D, while an option, is not the most efficient solution as it requires the creation of an EMR cluster, which can be costly and complex to manage.

upvoted 6 times

E Spentium75 Most Recent 2 5 months, 2 weeks ago

Selected Answer: A

- B Developing a script is surely not minimizing operational effort
- C Stores data in DynamoDB where the new app cannot use it

D - Could work but is total overkill (EMR is for Big Data analysis, not for simple ETL)

upvoted 2 times

😑 🎩 Ruffyit 7 months ago

A-ETL is serverless & best suited with the requirement who primary job is ETL B-Usage of Ec2 adds operational overhead & incur costs C-DynamoDB(NoSql) does suit the requirement as company is performing SQL queries D-EMR adds operational overhead & incur costs upvoted 1 times

😑 🆀 ACloud_Guru15 7 months ago

Selected Answer: A

A-ETL is serverless & best suited with the requirement who primary job is ETL B-Usage of Ec2 adds operational overhead & incur costs C-DynamoDB(NoSql) does suit the requirement as company is performing SQL queries D-EMR adds operational overhead & incur costs upvoted 1 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Selected Answer: A

Data transformation = AWS Glue upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

Create an AWS Glue ETL job to process the CSV files Configure the job to run on a schedule Output the transformed data to Amazon Redshift The key points:

Legacy app generates CSV files in S3 New app requires data in Redshift or S3 Need to transform CSV to support new app with minimal ops overhead upvoted 1 times

😑 🌲 kraken21 1 year, 2 months ago

Selected Answer: A

Glue is server less and has less operational head than EMR so A. upvoted 1 times

🖃 👗 [Removed] 1 year, 2 months ago

Selected Answer: C

o meet the requirement with the least operational overhead, a serverless approach should be used. Among the options provided, option C provides a serverless solution using AWS Lambda, S3, and DynamoDB. Therefore, the solution should be to create an AWS Lambda function and ar Amazon DynamoDB table. Use an S3 event to invoke the Lambda function. Configure the Lambda function to perform an extract, transform, and load (ETL) job to process the .csv files and store the processed data in the DynamoDB table.

Option A is also a valid solution, but it may involve more operational overhead than Option C. With Option A, you would need to set up and manage an AWS Glue job, which would require more setup time than creating an AWS Lambda function. Additionally, AWS Glue jobs have a minimum execution time of 10 minutes, which may not be necessary or desirable for this use case. However, if the data processing is particularly complex or requires a lot of data transformation, AWS Glue may be a more appropriate solution.

upvoted 1 times

😑 💄 MssP 1 year, 2 months ago

Important point: The COTS performs complex SQL queries to analyze data in Amazon Redshift. If you use DynamoDB -> No SQL querires. Option A makes more sense.

upvoted 3 times

😑 🌲 pentium75 5 months, 2 weeks ago

Creating and maintaining a Lambda function is more "operational overhead" than using a ready-made service such as Glue. But more importan answer C says "store the processed data in the DynamoDB table" while the application can "analyze data that is stored in Amazon Redshift and Amazon S3 only".

upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: A

A would be the best solution as it involves the least operational overhead. With this solution, an AWS Glue ETL job is created to process the .csv files and store the processed data directly in Amazon Redshift. This is a serverless approach that does not require any infrastructure to be provisioned, configured, or maintained. AWS Glue provides a fully managed, pay-as-you-go ETL service that can be easily configured to process data from S3 and load it into Amazon Redshift. This approach allows the legacy application to continue to produce data in the CSV format that it currently uses, while providing the new COTS application with the ability to analyze the data using complex SQL queries.

😑 🌲 jennyka76 1 year, 3 months ago

А

https://docs.aws.amazon.com/glue/latest/dg/aws-glue-programming-etl-format-csv-home.html I AGREE AFTER READING LINK

upvoted 1 times

😑 🌲 cloudbusting 1 year, 3 months ago

A: https://docs.aws.amazon.com/glue/latest/dg/aws-glue-programming-etl-format.html upvoted 1 times

A company recently migrated its entire IT environment to the AWS Cloud. The company discovers that users are provisioning oversized Amazon EC2 instances and modifying security group rules without using the appropriate change control process. A solutions architect must devise a strategy to track and audit these inventory and configuration changes.

Which actions should the solutions architect take to meet these requirements? (Choose two.)

A. Enable AWS CloudTrail and use it for auditing.

B. Use data lifecycle policies for the Amazon EC2 instances.

AD (94%)

C. Enable AWS Trusted Advisor and reference the security dashboard.

D. Enable AWS Config and create rules for auditing and compliance purposes.

E. Restore previous resource configurations with an AWS CloudFormation template.

Correct A	nswer: AD
------------------	------------------

Community vote distribution

😑 📥 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: AD

A. Enable AWS CloudTrail and use it for auditing. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS Command Line Interface (CLI), and AWS SDKs and APIs. By enabling CloudTrail, the company can track user activity and changes to AWS resources, and monitor compliance with internal policies and external regulations.

D. Enable AWS Config and create rules for auditing and compliance purposes. AWS Config provides a detailed inventory of the AWS resources in your account, and continuously records changes to the configurations of those resources. By creating rules in AWS Config, the company can automate the evaluation of resource configurations against desired state, and receive alerts when configurations drift from compliance.

Options B, C, and E are not directly relevant to the requirement of tracking and auditing inventory and configuration changes. upvoted 11 times

6%

😑 💄 Ruffyit Most Recent 🔿 7 months ago

A. Enable AWS CloudTrail and use it for auditing. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS Command Line Interface (CLI), and AWS SDKs and APIs. By enabling CloudTrail, the company can track user activity and changes to AWS resources, and monitor compliance with internal policies and external regulations.

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Options B, C, and E are not directly relevant to the requirement of tracking and auditing inventory and configuration changes. upvoted 1 times

□ ▲ Guru4Cloud 9 months, 1 week ago

Selected Answer: AD

A. Enable AWS CloudTrail and use it for auditing. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS Command Line Interface (CLI), and AWS SDKs and APIs. By enabling CloudTrail, the company can track user activity and changes to AWS resources, and monitor compliance with internal policies and external regulations.

D. Enable AWS Config and create rules for auditing and compliance purposes. AWS Config provides a detailed inventory of the AWS resources in your account, and continuously records changes to the configurations of those resources. By creating rules in AWS Config, the company can automate the evaluation of resource configurations against desired state, and receive alerts when configurations drift from compliance. upvoted 1 times

😑 💄 mrsoa 10 months, 3 weeks ago

Selected Answer: CD

I am gonna go with CD AWS Cloudtrail is already enabled so no need to enable it and for the auding we are gonna use AWS config Answer D

C because Trusted advisor checks the security groups upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

CloudTrail is not enabled by default or in the question scenario. Even if it was, Trusted Advisor would just give you recommendations and usage reports. It won't audit anything for you

upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

"AWS CloudTrail is already enabled" says who? upvoted 2 times

😑 🌲 kruasan 1 year, 1 month ago

Selected Answer: AD

A) Enable AWS CloudTrail and use it for auditing.

AWS CloudTrail provides a record of API calls and can be used to audit changes made to EC2 instances and security groups. By analyzing CloudTrailogs, the solutions architect can track who provisioned oversized instances or modified security groups without proper approval. D) Enable AWS Config and create rules for auditing and compliance purposes.

AWS Config can record the configuration changes made to resources like EC2 instances and security groups. The solutions architect can create AWS Config rules to monitor for non-compliant changes, like launching certain instance types or opening security group ports without permission. AWS Config would alert on any violations of these rules.

upvoted 2 times

😑 💄 kruasan 1 year, 1 month ago

The other options would not fully meet the auditing and change tracking requirements:

B) Data lifecycle policies control when EC2 instances are backed up or deleted but do not audit configuration changes.

C) AWS Trusted Advisor security checks may detect some compliance violations after the fact but do not comprehensively log changes like AWS CloudTrail and AWS Config do.

E) CloudFormation templates enable rollback but do not provide an audit trail of changes. The solutions architect would not know who made unauthorized modifications in the first place.

upvoted 2 times

😑 🌲 skiwili 1 year, 3 months ago

Selected Answer: AD

Yes A and D upvoted 1 times

😑 💄 jennyka76 1 year, 3 months ago

AGREE WITH ANSWER - A & D CloudTrail and Config upvoted 1 times

😑 💄 Neha999 1 year, 3 months ago

CloudTrail and Config upvoted 2 times

A company has hundreds of Amazon EC2 Linux-based instances in the AWS Cloud. Systems administrators have used shared SSH keys to manage the instances. After a recent audit, the company's security team is mandating the removal of all shared keys. A solutions architect must design a solution that provides secure access to the EC2 instances.

Which solution will meet this requirement with the LEAST amount of administrative overhead?

A. Use AWS Systems Manager Session Manager to connect to the EC2 instances.

B. Use AWS Security Token Service (AWS STS) to generate one-time SSH keys on demand.

C. Allow shared SSH access to a set of bastion instances. Configure all other instances to allow only SSH access from the bastion instances.

D. Use an Amazon Cognito custom authorizer to authenticate users. Invoke an AWS Lambda function to generate a temporary SSH key.

Correct Answer: B				
Community vote distribution				
A (83%) Other				
😑 🚢 Vlad (Highly Voted 🖬) 1 year, 3 months ago				
Answer is A				
Using AWS Systems Manager Session Manager to connect to the EC2 instances is a secure option as it eliminates the need for inbound SS and removes the requirement to manage SSH keys manually. It also provides a complete audit trail of user activity. This solution requires r additional software to be installed on the EC2 instances. upvoted 9 times		oorts		
😑 🛔 pentium75 (Highly Voted 🗃) 5 months, 2 weeks ago				
Selected Answer: A				
A - Systems Manager Session Manager has EXACTLY that purpose, 'providing secure access to EC2 instances'				
B - STS can generate temporary IAM credentials or access keys but NOT SSH keys C - Does not 'remove all shared keys' as requested				
D - Cognito is not meant for internal users, and whole setup is complex				
upvoted 5 times				
😑 🚢 pentium75 Most Recent 🕗 5 months, 2 weeks ago				
Selected Answer: A				
B - Querying is just a feature of Redshift but primarily it's a Data Warehouse - the question says nothing that historical data would have to	be	ž		
stored or accessed or analyzed upvoted 1 times				
E & Ruffyit 7 months ago				
The key reasons why:				

STS can generate short-lived credentials that provide temporary access to the EC2 instances for administering them.

The credentials can be generated on-demand each time access is needed, eliminating the risks of using permanent shared SSH keys. No infrastructure like bastion hosts needs to be maintained.

The on-premises administrators can use the familiar SSH tools with the temporary keys.

upvoted 1 times

😑 🌲 TariqKipkemei 8 months, 1 week ago

Selected Answer: A

Session Manager provides secure and auditable node management without the need to open inbound ports, maintain bastion hosts, or manage SSH keys.

upvoted 1 times

😑 🌲 Guru4Cloud 9 months ago

Selected Answer: B

The key reasons why:

STS can generate short-lived credentials that provide temporary access to the EC2 instances for administering them. The credentials can be generated on-demand each time access is needed, eliminating the risks of using permanent shared SSH keys. No infrastructure like bastion hosts needs to be maintained.

The on-premises administrators can use the familiar SSH tools with the temporary keys.

upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

STS provides temporary IAM credentials, not SSH keys upvoted 1 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: B

Using AWS Security Token Service (AWS STS) to generate one-time SSH keys on demand is a secure and efficient way to provide access to the EC2 instances without the need for shared SSH keys. STS is a fully managed service that can be used to generate temporary security credentials, allowing systems administrators to connect to the EC2 instances without having to share SSH keys. The temporary credentials can be generated or demand, reducing the administrative overhead associated with managing SSH access upvoted 1 times

😑 💄 ofinto 8 months, 3 weeks ago

Can you please provide documentation about generating a one-time SSH with STS? upvoted 1 times

😑 💄 kruasan 1 year, 1 month ago

Selected Answer: A

AWS Systems Manager Session Manager provides secure shell access to EC2 instances without the need for SSH keys. It meets the security requirement to remove shared SSH keys while minimizing administrative overhead.

upvoted 1 times

😑 💄 kruasan 1 year, 1 month ago

Session Manager is a fully managed AWS Systems Manager capability. With Session Manager, you can manage your Amazon Elastic Compute Cloud (Amazon EC2) instances, edge devices, on-premises servers, and virtual machines (VMs). You can use either an interactive one-click browser-based shell or the AWS Command Line Interface (AWS CLI). Session Manager provides secure and auditable node management without the need to open inbound ports, maintain bastion hosts, or manage SSH keys. Session Manager also allows you to comply with corporate policies that require controlled access to managed nodes, strict security practices, and fully auditable logs with node access details, while providing end users with simple one-click cross-platform access to your managed nodes.

https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html

upvoted 2 times

😑 🌲 kruasan 1 year, 1 month ago

Who should use Session Manager?

Any AWS customer who wants to improve their security and audit posture, reduce operational overhead by centralizing access control on managed nodes, and reduce inbound node access.

Information Security experts who want to monitor and track managed node access and activity, close down inbound ports on managed nodes, or allow connections to managed nodes that don't have a public IP address.

Administrators who want to grant and revoke access from a single location, and who want to provide one solution to users for Linux, macOS and Windows Server managed nodes.

Users who want to connect to a managed node with just one click from the browser or AWS CLI without having to provide SSH keys. upvoted 2 times

😑 🌲 Guru4Cloud 9 months ago

If the systems administrators need to access the EC2 instances from an on-premises environment, using Session Manager may not be the ideal solution.

upvoted 1 times

😑 👗 Stanislav4907 1 year, 3 months ago

Selected Answer: C

You guys seriously don't want to go to SMSM for Avery Single EC2. You have to create solution not used services for one time access. Bastion will give you option to manage 1000s EC2 machines from 1. Plus you can use Ansible from it. upvoted 2 times

😑 💄 Zox42 1 year, 2 months ago

Question:" the company's security team is mandating the removal of all shared keys", answer C can't be right because it says:"Allow shared SSH access to a set of bastion instances".

upvoted 6 times

😑 🌲 UnluckyDucky 1 year, 2 months ago

Session Manager is the best practice and recommended way by Amazon to manage your instances. Bastion hosts require remote access therefore exposing them to the internet.

The most secure way is definitely session manager therefore answer A is correct imho. upvoted 3 times

🖃 🌲 Steve_4542636 1 year, 3 months ago

Selected Answer: A

l vote a

upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: A

AWS Systems Manager Session Manager provides secure and auditable instance management without the need for any inbound connections or open ports. It allows you to manage your instances through an interactive one-click browser-based shell or through the AWS CLI. This means that you don't have to manage any SSH keys, and you don't have to worry about securing access to your instances as access is controlled through IAM policies.

upvoted 4 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: A

https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html upvoted 2 times

😑 💄 jahmad0730 1 year, 3 months ago

Selected Answer: A

Answer must be A upvoted 2 times

😑 💄 jennyka76 1 year, 3 months ago

ANSWER - A

AWS SESSION MANAGER IS CORRECT LEAST EFFORTS TO ACCESS LINUX SYSTEM IN AWS CONDOLE AND YOUR ARE ALREAADY LOGIN TO AWS. SO NO NEED FOR THE TOKEN OR OTHER STUFF DONE IN THE BACKGROUND BY AWS. MAKES SENESE. upvoted 2 times

😑 💄 cloudbusting 1 year, 3 months ago

Answer is A upvoted 3 times

😑 🏝 zTopic 1 year, 3 months ago

Selected Answer: A

Answer is A upvoted 2 times

Which solution provides near-real-time data querying that is scalable with minimal data loss?

A. Publish data to Amazon Kinesis Data Streams, Use Kinesis Data Analytics to query the data.

B. Publish data to Amazon Kinesis Data Firehose with Amazon Redshift as the destination. Use Amazon Redshift to query the data.

C. Store ingested data in an EC2 instance store. Publish data to Amazon Kinesis Data Firehose with Amazon S3 as the destination. Use Amazon Athena to query the data.

D. Store ingested data in an Amazon Elastic Block Store (Amazon EBS) volume. Publish data to Amazon ElastiCache for Redis. Subscribe to the Redis channel to query the data.

Correct Answer: A

Community vote distribution A (72%)

B (28%)

😑 👗 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

A: is the solution for the company's requirements. Publishing data to Amazon Kinesis Data Streams can support ingestion rates as high as 1 MB/s and provide real-time data processing. Kinesis Data Analytics can query the ingested data in real-time with low latency, and the solution can scale as needed to accommodate increases in ingestion rates or querying needs. This solution also ensures minimal data loss in the event of an EC2 instance reboot since Kinesis Data Streams has a persistent data store for up to 7 days by default.

upvoted 14 times

😑 👗 bogobob (Highly Voted 🖬) 6 months, 4 weeks ago

Selected Answer: B

The fact they specifically mention "near real-time" twice tells me the correct answer is KDF. On top of which its easier to setup and maintain. KDS is really only needed if you need real-time. Also using redshift will mean permanent data retention. The data in A could be lost after a year. Redshift queries are slow but you're still querying near real-time data

upvoted 5 times

😑 🌲 Ernestokoro 6 months, 1 week ago

You are very correct. see supporting link https://jayendrapatil.com/aws-kinesis-data-streams-vs-kinesisfirehose/#:~:text=vs%20Kine...-,Purpose,into%20AWS%20products%20for%20processing. upvoted 1 times

😑 👗 Lin878 (Most Recent 🕐) 5 days, 22 hours ago

Selected Answer: B

https://aws.amazon.com/pm/kinesis/?gclid=CjwKCAjwvIWzBhAlEiwAHHWgvRQuJmBubZDnO2GasDWwc2iBapfVD6GBelgj2JV6qkldm-K_CmMzmxoCdCwQAvD_BwE&trk=ee1218b7-7c10-4762-97df-

274836a44566&sc_channel=ps&ef_id=CjwKCAjwvIWzBhAlEiwAHHWgvRQuJmBubZDnO2GasDWwc2iBapfVD6GBeIgj2JV6qkldm-K_CmMzmxoCdCwQAvD_BwE:G:s&s_kwcid=AL!4422!3!651510255264!p!!g!!kinesis%20stream!19836376690!149589222920 upvoted 1 times

🖃 🎍 ray320x 4 months, 1 week ago

Option A is actually correct. The question ask for minimal data loss and that query of data should be near real time, not the ingestion. Kinesis data analytics is near real time.

Recent changes to Redshift actually make B correct as well, but A is also correct. upvoted 2 times

😑 🌲 dkw2342 3 months, 1 week ago

Streaming ingestion provides low-latency, high-speed ingestion of stream data from Amazon Kinesis Data Streams and Amazon Managed Streaming for Apache Kafka into an Amazon Redshift provisioned or Amazon Redshift Serverless materialized view.[1]

Option B mentions Kinesis Data Firehose (now just Firehose), so this won't work.

Option A is the correct answer.

[1]https://docs.aws.amazon.com/redshift/latest/dg/materialized-view-streaming-ingestion.html upvoted 1 times

😑 💄 farnamjam 4 months, 2 weeks ago

Selected Answer: A

Comparison to other options:

B. Kinesis Data Firehose with Redshift: While Redshift is scalable, it doesn't offer real-time querying capabilities. Data needs to be loaded into Redshift from Firehose, introducing latency.

C. EC2 instance store with Kinesis Data Firehose and S3: Storing data in an EC2 instance store is not persistent and data will be lost during reboots. EBS volumes are more appropriate for persistent storage, but the architecture becomes more complex.

D. EBS volume with ElastiCache and Redis: While ElastiCache offers fast in-memory storage, it's not designed for high-volume data ingestion like 1 MB/s. It might struggle with scalability and persistence.

upvoted 2 times

😑 👗 Firdous586 5 months ago

I don't understand why people are giving wrong information

in the QUESTION its clearly mentioned near Real Time

Kinesis Data Streams is for Real time

Where are Kinesis Datafirehose is for Near real time there for answer is B only

upvoted 5 times

□ ▲ Marco_St 6 months ago

Selected Answer: A

Read the question: near real-time querying of data.... it is more about real-time data query once the data is ingested, It does not mention how long time the data needs to be stored. A is better option. B introduces delay of data buffer before it can be queried in redshift upvoted 1 times

😑 🌲 practice_makes_perfect 7 months ago

Selected Answer: B

A is not correct because Kinesis can only store data up to 1 year. The solution need to support querying ALL data instead of "recent" data. upvoted 3 times

😑 🌲 pentium75 5 months, 2 weeks ago

Says who? They want to "query ingested data in near-real time", it does not say anything about historical data. upvoted 1 times

😑 🆀 Ruffyit 7 months ago

A: is the solution for the company's requirements. Publishing data to Amazon Kinesis Data Streams can support ingestion rates as high as 1 MB/s and provide real-time data processing. Kinesis Data Analytics can query the ingested data in real-time with low latency, and the solution can scale as needed to accommodate increases in ingestion rates or querying needs. This solution also ensures minimal data loss in the event of an EC2 instance reboot since Kinesis Data Streams has a persistent data store for up to 7 days by default.

😑 🏝 TariqKipkemei 8 months, 1 week ago

Selected Answer: A

Publish data to Amazon Kinesis Data Streams, Use Kinesis Data Analytics to query the data upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

• Provide near-real-time data ingestion into Kinesis Data Streams with the ability to handle the 1 MB/s ingestion rate. Data would be stored redundantly across shards.

- Enable near-real-time querying of the data using Kinesis Data Analytics. SQL queries can be run directly against the Kinesis data stream.
- Minimize data loss since data is replicated across shards. If an EC2 instance is rebooted, the data stream is still accessible.
- Scale seamlessly to handle varying ingestion and query rates. upvoted 3 times

😑 💄 Nikki013 9 months, 2 weeks ago

Selected Answer: A

Answer is A as it will provide a more streamlined solution.

Using B (Firehose + Redshift) will involve sending the data to an S3 bucket first and then copying the data to Redshift which will take more time.

https://docs.aws.amazon.com/firehose/latest/dev/what-is-this-service.html upvoted 3 times

😑 💄 nublit 1 year ago

Selected Answer: B

Amazon Kinesis Data Firehose can deliver data in real-time to Amazon Redshift, making it immediately available for queries. Amazon Redshift, on the other hand, is a powerful data analytics service that allows fast and scalable querying of large volumes of data. upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Redshift is a Data Warehouse in the first place, but the question says nothing about storing the data. They want to analyze it in near-real time, nobody says they need to store or access or analyze historical data. upvoted 2 times

😑 💄 kruasan 1 year, 1 month ago

Selected Answer: A

• Provide near-real-time data ingestion into Kinesis Data Streams with the ability to handle the 1 MB/s ingestion rate. Data would be stored redundantly across shards.

- Enable near-real-time querying of the data using Kinesis Data Analytics. SQL queries can be run directly against the Kinesis data stream.
- Minimize data loss since data is replicated across shards. If an EC2 instance is rebooted, the data stream is still accessible.
- Scale seamlessly to handle varying ingestion and query rates. upvoted 2 times

😑 💄 kruasan 1 year, 1 month ago

The other options would not fully meet the requirements:

B) Kinesis Firehose + Redshift would introduce latency since data must be loaded from Firehose into Redshift before querying. Redshift would lack real-time capabilities.

C) An EC2 instance store and Kinesis Firehose to S3 with Athena querying would risk data loss from instance store if an instance reboots. Athen querying data in S3 also lacks real-time capabilities.

D) Using EBS storage, Kinesis Firehose to Redis and subscribing to Redis may provide near-real-time ingestion and querying but risks data loss an EBS volume or EC2 instance fails. Recovery requires re-hydrating data from a backup which impacts real-time needs.

upvoted 4 times

😑 💄 joechen2023 12 months ago

I voted A as well, although not 100% sure why B is not correct. I just selected what seems the most simple solution between A and B.

Reason Kruasan gave "Redshift would lack real-time capabilities." This is not true. Redshift could do real-time. evidence https://aws.amazon.com/blogs/big-data/real-time-analytics-with-amazon-redshift-streaming-ingestion/ upvoted 1 times

😑 💄 jennyka76 1 year, 3 months ago

ANSWER - A https://docs.aws.amazon.com/kinesisanalytics/latest/dev/what-is.html upvoted 1 times

😑 📥 cloudbusting 1 year, 3 months ago

near-real-time data querying = Kinesis analytics
upvoted 3 times

😑 🌲 **zTopic** 1 year, 3 months ago

Selected Answer: A

Answer is A upvoted 1 times

What should a solutions architect do to ensure that all objects uploaded to an Amazon S3 bucket are encrypted?

- A. Update the bucket policy to deny if the PutObject does not have an s3:x-amz-acl header set.
- B. Update the bucket policy to deny if the PutObject does not have an s3:x-amz-acl header set to private.
- C. Update the bucket policy to deny if the PutObject does not have an aws:SecureTransport header set to true.
- D. Update the bucket policy to deny if the PutObject does not have an x-amz-server-side-encryption header set.

Correct Answer: D

Community vote distribution

D (100%)

😑 🌲 bdp123 (Highly Voted 🐽) 1 year, 3 months ago

Selected Answer: D

https://aws.amazon.com/blogs/security/how-to-prevent-uploads-of-unencrypted-objects-to-amazon-s3/#:~:text=Solution%20overview upvoted 11 times

😑 👗 Grace83 1 year, 2 months ago

Thank you! upvoted 1 times

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 1 week ago

Selected Answer: D

The x-amz-server-side-encryption header is used to specify the encryption method that should be used to encrypt objects uploaded to an Amazor S3 bucket. By updating the bucket policy to deny if the PutObject does not have this header set, the solutions architect can ensure that all objects uploaded to the bucket are encrypted.

upvoted 5 times

😑 👗 awsgeek75 (Most Recent 🕗) 5 months, 1 week ago

Selected Answer: D

Related reading because (as of Jan 2023) S3 buckets have encryption enabled by default. https://docs.aws.amazon.com/AmazonS3/latest/userguide/UsingServerSideEncryption.html

"If you require your data uploads to be encrypted using only Amazon S3 managed keys, you can use the following bucket policy. For example, the following bucket policy denies permissions to upload an object unless the request includes the x-amz-server-side-encryption header to request server-side encryption:"

upvoted 2 times

😑 🌲 kruasan 1 year, 1 month ago

To encrypt an object at the time of upload, you need to add a header called x-amz-server-side-encryption to the request to tell S3 to encrypt the object using SSE-C, SSE-S3, or SSE-KMS. The following code example shows a Put request using SSE-S3.

https://aws.amazon.com/blogs/security/how-to-prevent-uploads-of-unencrypted-objects-to-amazon-s3/

upvoted 3 times

😑 🌲 kruasan 1 year, 1 month ago

The other options would not enforce encryption:

- A) Requiring an s3:x-amz-acl header does not mandate encryption. This header controls access permissions.
- B) Requiring an s3:x-amz-acl header set to private also does not enforce encryption. It only enforces private access permissions.

C) Requiring an aws:SecureTransport header ensures uploads use SSL but does not specify that objects must be encrypted. Encryption is not

required when using SSL transport. upvoted 3 times

😑 👗 kruasan 1 year, 1 month ago

Selected Answer: D

To encrypt an object at the time of upload, you need to add a header called x-amz-server-side-encryption to the request to tell S3 to encrypt the object using SSE-C, SSE-S3, or SSE-KMS. The following code example shows a Put request using SSE-S3. https://aws.amazon.com/blogs/security/how-to-prevent-uploads-of-unencrypted-objects-to-amazon-s3/ upvoted 1 times

😑 🌲 Sbbh 1 year, 2 months ago

Confusing question. It doesn't state clearly if the object needs to be encrypted at-rest or in-transit upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

That's true

upvoted 1 times

😑 🆀 Steve_4542636 1 year, 3 months ago

Selected Answer: D

upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: D

To ensure that all objects uploaded to an Amazon S3 bucket are encrypted, the solutions architect should update the bucket policy to deny any PutObject requests that do not have an x-amz-server-side-encryption header set. This will prevent any objects from being uploaded to the bucket unless they are encrypted using server-side encryption. upvoted 3 times

😑 💄 jennyka76 1 year, 3 months ago

answer - D upvoted 1 times

😑 💄 zTopic 1 year, 3 months ago

Selected Answer: D

Answer is D upvoted 1 times

😑 💄 Neorem 1 year, 3 months ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonS3/latest/userguide/amazon-s3-policy-keys.html upvoted 1 times

A solutions architect is designing a multi-tier application for a company. The application's users upload images from a mobile device. The application generates a thumbnail of each image and returns a message to the user to confirm that the image was uploaded successfully.

The thumbnail generation can take up to 60 seconds, but the company wants to provide a faster response time to its users to notify them that the original image was received. The solutions architect must design the application to asynchronously dispatch requests to the different application tiers.

What should the solutions architect do to meet these requirements?

A. Write a custom AWS Lambda function to generate the thumbnail and alert the user. Use the image upload process as an event source to invoke the Lambda function.

B. Create an AWS Step Functions workflow. Configure Step Functions to handle the orchestration between the application tiers and alert the user when thumbnail generation is complete.

C. Create an Amazon Simple Queue Service (Amazon SQS) message queue. As images are uploaded, place a message on the SQS queue for thumbnail generation. Alert the user through an application message that the image was received.

D. Create Amazon Simple Notification Service (Amazon SNS) notification topics and subscriptions. Use one subscription with the application to generate the thumbnail after the image upload is complete. Use a second subscription to message the user's mobile app by way of a push notification after thumbnail generation is complete.

Correct Answer: C Community vote distribution

😑 👗 Steve_4542636 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C

I've noticed there are a lot of questions about decoupling services and SQS is almost always the answer. upvoted 24 times

E & Neha999 (Highly Voted 🖬 1 year, 3 months ago

D SNS fan out upvoted 12 times

E LoXoL (Most Recent 2) 4 months ago

They don't look like real answers from the official exam... upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: C

Each option is badly worded:

A: "generate the thumbnail and alert the user" doesn't sound sequential so could alert the user during, before or after the thumbnail generation whichever way you interpret it.

B: this is sequential and won't alert until the steps are complete

D: Could work without with the risk of notification loss so C is better but this is also ok

upvoted 1 times

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: C

Safe answer is C but B is so badly worded that it can mean anything to confuse people. Step functions to use tiers. What if on of the step is to inform to the user and move on to next step. Anyway, I'll chose C for the exam as it is cleaner. upvoted 1 times

😑 🌲 wsdasdasdqwdaw 7 months, 4 weeks ago

... asynchronously dispatch ... => Amazon SQS upvoted 3 times

😑 💄 TariqKipkemei 8 months ago

Selected Answer: C

Asynchronous, Decoupling = Amazon Simple Queue Service upvoted 3 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: C

SQS is a fully managed message queuing service that can be used to decouple different parts of an application. upvoted 1 times

🖃 💄 Zox42 1 year, 2 months ago

Selected Answer: C

Answers B and D alert the user when thumbnail generation is complete. Answer C alerts the user through an application message that the image was received.

upvoted 4 times

😑 🌲 Sbbh 1 year, 2 months ago

B:

Use cases for Step Functions vary widely, from orchestrating serverless microservices, to building data-processing pipelines, to defining a securityincident response. As mentioned above, Step Functions may be used for synchronous and asynchronous business processes. upvoted 1 times

😑 💄 AlessandraSAA 1 year, 3 months ago

why not B? upvoted 4 times

🖃 🌲 Wael216 1 year, 3 months ago

Selected Answer: C

Creating an Amazon Simple Queue Service (SQS) message queue and placing messages on the queue for thumbnail generation can help separate the image upload and thumbnail generation processes.

upvoted 1 times

😑 🌲 vindahake 1 year, 3 months ago

С

The key here is "a faster response time to its users to notify them that the original image was received." i.e user needs to be notified when image was received and not after thumbnail was created.

upvoted 2 times

😑 🌲 AlmeroSenior 1 year, 3 months ago

Selected Answer: C

A looks like the best way , but its essentially replacing the mentioned app , that's not the ask upvoted 1 times

😑 💄 Mickey321 1 year, 3 months ago

```
Selected Answer: A
https://docs.aws.amazon.com/lambda/latest/dg/with-s3-tutorial.html
upvoted 1 times
```

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: C

C is the only one that makes sense upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: A

Use a custom AWS Lambda function to generate the thumbnail and alert the user. Lambda functions are well-suited for short-lived, stateless operations like generating thumbnails, and they can be triggered by various events, including image uploads. By using Lambda, the application cal quickly confirm that the image was uploaded successfully and then asynchronously generate the thumbnail. When the thumbnail is generated, the Lambda function can send a message to the user to confirm that the thumbnail is ready.

C proposes to use an Amazon Simple Queue Service (Amazon SQS) message queue to process image uploads and generate thumbnails. SQS can help decouple the image upload process from the thumbnail generation process, which is helpful for asynchronous processing. However, it may

not be the most suitable option for quickly alerting the user that the image was received, as the user may have to wait until the thumbnail is generated before receiving a notification.

upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

You understood C wrong. You place the message on the SQS queue and then you alert the user. upvoted 2 times

A company's facility has badge readers at every entrance throughout the building. When badges are scanned, the readers send a message over HTTPS to indicate who attempted to access that particular entrance.

A solutions architect must design a system to process these messages from the sensors. The solution must be highly available, and the results must be made available for the company's security team to analyze.

Which system architecture should the solutions architect recommend?

A. Launch an Amazon EC2 instance to serve as the HTTPS endpoint and to process the messages. Configure the EC2 instance to save the results to an Amazon S3 bucket.

B. Create an HTTPS endpoint in Amazon API Gateway. Configure the API Gateway endpoint to invoke an AWS Lambda function to process the messages and save the results to an Amazon DynamoDB table.

C. Use Amazon Route 53 to direct incoming sensor messages to an AWS Lambda function. Configure the Lambda function to process the messages and save the results to an Amazon DynamoDB table.

D. Create a gateway VPC endpoint for Amazon S3. Configure a Site-to-Site VPN connection from the facility network to the VPC so that sensor data can be written directly to an S3 bucket by way of the VPC endpoint.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 kruasan (Highly Voted 🖬) 1 year, 1 month ago

Selected Answer: B

- Option A would not provide high availability. A single EC2 instance is a single point of failure.

- Option B provides a scalable, highly available solution using serverless services. API Gateway and Lambda can scale automatically, and DynamoD provides a durable data store.

- Option C would expose the Lambda function directly to the public Internet, which is not a recommended architecture. API Gateway provides an abstraction layer and additional features like access control.

- Option D requires configuring a VPN to AWS which adds complexity. It also saves the raw sensor data to S3, rather than processing it and storing the results.

upvoted 16 times

😑 🌲 TariqKipkemei (Highly Voted 🖬) 8 months ago

Selected Answer: B

Highly available = Serverless

The readers send a message over HTTPS = HTTPS endpoint in Amazon API Gateway Process these messages from the sensors = AWS Lambda function upvoted 6 times

Guru4Cloud Most Recent (2) 9 months, 1 week ago

Selected Answer: B

The correct answer is B. Create an HTTPS endpoint in Amazon API Gateway. Configure the API Gateway endpoint to invoke an AWS Lambda function to process the messages and save the results to an Amazon DynamoDB table.

Here are the reasons why:

API Gateway is a highly scalable and available service that can be used to create and expose RESTful APIs. Lambda is a serverless compute service that can be used to process events and data. DynamoDB is a NoSQL database that can be used to store data in a scalable and highly available way. upvoted 3 times

E & Steve_4542636 1 year, 3 months ago

Selected Answer: B

l vote B

upvoted 1 times

😑 👗 KZM 1 year, 3 months ago

It is option "B" Option "B" can provide a system with highly scalable, fault-tolerant, and easy to manage. upvoted 1 times

😑 🌲 LuckyAro 1 year, 3 months ago

Selected Answer: B

Deploy Amazon API Gateway as an HTTPS endpoint and AWS Lambda to process and save the messages to an Amazon DynamoDB table. This option provides a highly available and scalable solution that can easily handle large amounts of data. It also integrates with other AWS services, making it easier to analyze and visualize the data for the security team. upvoted 3 times

😑 💄 zTopic 1 year, 3 months ago

Selected Answer: B B is Correct upvoted 3 times

A company wants to implement a disaster recovery plan for its primary on-premises file storage volume. The file storage volume is mounted from an Internet Small Computer Systems Interface (iSCSI) device on a local storage server. The file storage volume holds hundreds of terabytes (TB) of data.

The company wants to ensure that end users retain immediate access to all file types from the on-premises systems without experiencing latency.

Which solution will meet these requirements with the LEAST amount of change to the company's existing infrastructure?

A. Provision an Amazon S3 File Gateway as a virtual machine (VM) that is hosted on premises. Set the local cache to 10 TB. Modify existing applications to access the files through the NFS protocol. To recover from a disaster, provision an Amazon EC2 instance and mount the S3 bucket that contains the files.

B. Provision an AWS Storage Gateway tape gateway. Use a data backup solution to back up all existing data to a virtual tape library. Configure the data backup solution to run nightly after the initial backup is complete. To recover from a disaster, provision an Amazon EC2 instance and restore the data to an Amazon Elastic Block Store (Amazon EBS) volume from the volumes in the virtual tape library.

C. Provision an AWS Storage Gateway Volume Gateway cached volume. Set the local cache to 10 TB. Mount the Volume Gateway cached volume to the existing file server by using iSCSI, and copy all files to the storage volume. Configure scheduled snapshots of the storage volume. To recover from a disaster, restore a snapshot to an Amazon Elastic Block Store (Amazon EBS) volume and attach the EBS volume to an Amazon EC2 instance.

D. Provision an AWS Storage Gateway Volume Gateway stored volume with the same amount of disk space as the existing file storage volume. Mount the Volume Gateway stored volume to the existing file server by using iSCSI, and copy all files to the storage volume. Configure scheduled snapshots of the storage volume. To recover from a disaster, restore a snapshot to an Amazon Elastic Block Store (Amazon EBS) volume and attach the EBS volume to an Amazon EC2 instance.

Correct Answer: *C*

Community vote distribution

C (23%)

😑 👗 Grace83 (Highly Voted 🖬 1 year, 2 months ago

D is the correct answer

Volume Gateway CACHED Vs STORED Cached = stores a subset of frequently accessed data locally Stored = Retains the ENTIRE ("all file types") in on prem data centre upvoted 24 times

😑 👗 dkw2342 (Most Recent 🕑) 3 months, 1 week ago

Bad question. No RTO/RPO, so impossible to properly answer. They probably want to hear option D.

Depending on RPO, option B is also an adequate solution (data remains immediately accessible without experiencing latency via existing infrastructure, backup to cloud for DR). Also, this option requires LESS changes to existing infra than A. Only argument against B is that VTLs are usually used for legacy DR solutions, not for new ones, where object storage such as S3 is usually supported natively. upvoted 1 times

😑 🌲 MrPCarrot 3 months, 2 weeks ago

Answer is C go argue somewhere. upvoted 2 times

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: D

A,B are wrong types of gateways for hundreds of TB of data that needs immediate access on-prem. C limits to 10TB. D provides access to all the files.

upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: D

"Immediate access to all file types from the on-premises systems without experiencing latency" requirement is not met by C. Also the solution is meant for DR purposes, the primary storage for the data should remain on premises. upvoted 3 times

😑 💄 daniel1 7 months, 3 weeks ago

Selected Answer: C

From chatGPT4

Considering the requirements of minimal infrastructure change, immediate file access, and low-latency, Option C: Provisioning an AWS Storage Gateway Volume Gateway (cached volume) with a 10 TB local cache, seems to be the most fitting solution. This setup aligns with the existing iSCSI setup and provides a local cache for low-latency access, while also configuring scheduled snapshots for disaster recovery. In the event of a disaster restoring a snapshot to an Amazon EBS volume and attaching it to an Amazon EC2 instance as described in this option would align with the recovery objective.

upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

ChatGPT is wrong. "Immediate access to all file types from the on-premises systems without experiencing latency" needs "stored volume" type. With "cached volume" not all data will be available locally.

upvoted 7 times

😑 💄 LoXoL 4 months ago

pentium75 is right. upvoted 1 times

😑 🌲 TariqKipkemei 8 months ago

Selected Answer: D

End users retain immediate access to all file types = Volume Gateway stored volume upvoted 2 times

😑 🌡 netcj 9 months ago

Selected Answer: D

"users retain immediate access to all file types" immediate cannot be cached -> D upvoted 4 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: D

dddddddd upvoted 2 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: D

Correct answer is Volume Gateway Stored which keeps all data on premises. To have immediate access to the data. Cached is for frequently accessed data only. upvoted 2 times

😑 💄 omoakin 1 year ago

😑 💄 lucdt4 1 year ago

Selected Answer: D

D is the correct answer Volume Gateway CACHED Vs STORED Cached = stores a data recentlly at local Stored = Retains the ENTIRE ("all file types") in on prem data centre upvoted 1 times

😑 🌡 rushi0611 1 year, 1 month ago

Selected Answer: D

In the cached mode, your primary data is written to S3, while retaining your frequently accessed data locally in a cache for low-latency access. In the stored mode, your primary data is stored locally and your entire dataset is available for low-latency access while asynchronously backed up to AWS.

Reference: https://aws.amazon.com/storagegateway/faqs/ Good luck.

upvoted 2 times

😑 🌲 kruasan 1 year, 1 month ago

Selected Answer: D

It is stated the company wants to keep the data locally and have DR plan in cloud. It points directly to the volume gateway upvoted 1 times

😑 🌲 UnluckyDucky 1 year, 2 months ago

Selected Answer: D

"The company wants to ensure that end users retain immediate access to all file types from the on-premises systems "

D is the correct answer.

upvoted 2 times

😑 🌲 CapJackSparrow 1 year, 2 months ago

Selected Answer: C

all file types, NOT all files. Volume mode can not cache 100TBs. upvoted 3 times

😑 📥 eddie5049 1 year, 1 month ago

https://docs.aws.amazon.com/storagegateway/latest/vgw/StorageGatewayConcepts.html

Stored volumes can range from 1 GiB to 16 TiB in size and must be rounded to the nearest GiB. Each gateway configured for stored volumes ca support up to 32 volumes and a total volume storage of 512 TiB (0.5 PiB). upvoted 1 times

🖯 🌡 MssP 1 year, 2 months ago

all file types. Cached only save the most frecuently or lastest accesed. If you didn't access any type for a long time, you will not cache it -> No immediate access

upvoted 3 times

😑 💄 pentium75 5 months, 2 weeks ago

Also the solution is meant for DR purposes, it's not like they need more storage or so. upvoted 1 times

😑 🌢 WherecanIstart 1 year, 2 months ago

Selected Answer: D

"The company wants to ensure that end users retain immediate access to all file types from the on-premises systems "

This points to stored volumes.. upvoted 1 times

A company is hosting a web application from an Amazon S3 bucket. The application uses Amazon Cognito as an identity provider to authenticate users and return a JSON Web Token (JWT) that provides access to protected resources that are stored in another S3 bucket.

Upon deployment of the application, users report errors and are unable to access the protected content. A solutions architect must resolve this issue by providing proper permissions so that users can access the protected content.

Which solution meets these requirements?

A. Update the Amazon Cognito identity pool to assume the proper IAM role for access to the protected content.

B. Update the S3 ACL to allow the application to access the protected content.

C. Redeploy the application to Amazon S3 to prevent eventually consistent reads in the S3 bucket from affecting the ability of users to access the protected content.

D. Update the Amazon Cognito pool to use custom attribute mappings within the identity pool and grant users the proper permissions to access the protected content.

Correct Answer: A

Community vote distribution

😑 💄 alexandercamachop (Highly Voted 🖬) 1 year ago

A (92%)

Selected Answer: A

To resolve the issue and provide proper permissions for users to access the protected content, the recommended solution is:

8%

A. Update the Amazon Cognito identity pool to assume the proper IAM role for access to the protected content.

Explanation:

Amazon Cognito provides authentication and user management services for web and mobile applications.

In this scenario, the application is using Amazon Cognito as an identity provider to authenticate users and obtain JSON Web Tokens (JWTs). The JWTs are used to access protected resources stored in another S3 bucket.

To grant users access to the protected content, the proper IAM role needs to be assumed by the identity pool in Amazon Cognito. By updating the Amazon Cognito identity pool with the appropriate IAM role, users will be authorized to access the protected content in the S3

bucket.

upvoted 10 times

😑 💄 alexandercamachop 1 year ago

Option B is incorrect because updating the S3 ACL (Access Control List) will only affect the permissions of the application, not the users accessing the content.

Option C is incorrect because redeploying the application to Amazon S3 will not resolve the issue related to user access permissions.

Option D is incorrect because updating custom attribute mappings in Amazon Cognito will not directly grant users the proper permissions to access the protected content. upvoted 10 times

😑 💄 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

A is the best solution as it directly addresses the issue of permissions and grants authenticated users the necessary IAM role to access the protected content.

A suggests updating the Amazon Cognito identity pool to assume the proper IAM role for access to the protected content. This is a valid solution, as it would grant authenticated users the necessary permissions to access the protected content. upvoted 5 times

😑 💄 Marco_St [Most Recent 🕗] 6 months ago

Selected Answer: A

IAM role is assinged to IAM users or groups or assumed by AWS service. So IAM role is given to AWS Cognito service which provides temporary AWS credentials to authenticated users. so technically When a user is authenticated by Cognito, they receive temporary credentials based on the IAM role tied to the Cognito identity pool. If this IAM role has permissions to access certain S3 buckets or objects, the authenticated user will be able to access those resources as allowed by the role. This service is used under the hood by Cognito to provide these temporary credentials. The credentials are limited in time and scope based on the permissions defined in the IAM role.

upvoted 1 times

😑 🛔 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

A. Update the Amazon Cognito identity pool to assume the proper IAM role for access to the protected content. upvoted 2 times

😑 📥 Abrar2022 1 year ago

Selected Answer: A

Services access other services via IAM Roles. Hence why updating AWS Cognito identity pool to assume proper IAM Role is the right solution. upvoted 1 times

😑 💄 shanwford 1 year, 2 months ago

Selected Answer: A

Amazon Cognito identity pools assign your authenticated users a set of temporary, limited-privilege credentials to access your AWS resources. The permissions for each user are controlled through IAM roles that you create. https://docs.aws.amazon.com/cognito/latest/developerguide/role-based-access-control.html

upvoted 2 times

😑 🌲 Brak 1 year, 3 months ago

Selected Answer: D

A makes no sense - Cognito is not accessing the S3 resource. It just returns the JWT token that will be attached to the S3 request.

D is the right answer, using custom attributes that are added to the JWT and used to grant permissions in S3. See https://docs.aws.amazon.com/cognito/latest/developerguide/using-attributes-for-access-control-policy-example.html for an example. upvoted 2 times

😑 💄 asoli 1 year, 2 months ago

A says "Identity Pool"

According to AWS: "With an identity pool, your users can obtain temporary AWS credentials to access AWS services, such as Amazon S3 and DynamoDB."

So, answer is A

upvoted 2 times

😑 🌲 Abhineet9148232 1 year, 3 months ago

But even D requires setting up the permissions as bucket policy (as show in the shared example) which includes higher overhead than managin permissions attached to specific roles.

upvoted 2 times

😑 🌲 Steve_4542636 1 year, 3 months ago

Selected Answer: A

Services access other services via IAM Roles. upvoted 1 times

😑 💄 jennyka76 1 year, 3 months ago

ANSWER - A

https://docs.aws.amazon.com/cognito/latest/developerguide/tutorial-create-identity-pool.html You have to create an custom role such as read-only upvoted 4 times

😑 🛔 zTopic 1 year, 3 months ago

Selected Answer: A		
Answer is A		
upvoted 2 times		

Question #326

An image hosting company uploads its large assets to Amazon S3 Standard buckets. The company uses multipart upload in parallel by using S3 APIs and overwrites if the same object is uploaded again. For the first 30 days after upload, the objects will be accessed frequently. The objects will be used less frequently after 30 days, but the access patterns for each object will be inconsistent. The company must optimize its S3 storage costs while maintaining high availability and resiliency of stored assets.

Which combination of actions should a solutions architect recommend to meet these requirements? (Choose two.)

A. Move assets to S3 Intelligent-Tiering after 30 days.

B. Configure an S3 Lifecycle policy to clean up incomplete multipart uploads.

C. Configure an S3 Lifecycle policy to clean up expired object delete markers.

D. Move assets to S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days.

E. Move assets to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days.

Correct Answer: *AB*

Community vote distribution

AB (60%)

BD (30%) 8%

😑 💄 Neha999 (Highly Voted 🖬) 1 year, 3 months ago

AB

A : Access Pattern for each object inconsistent, Infrequent Access

B : Deleting Incomplete Multipart Uploads to Lower Amazon S3 Costs

upvoted 22 times

😑 👗 TungPham (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: AB

B because Abort Incomplete Multipart Uploads Using S3 Lifecycle => https://aws.amazon.com/blogs/aws-cloud-financialmanagement/discovering-and-deleting-incomplete-multipart-uploads-to-lower-amazon-s3-costs/

A because The objects will be used less frequently after 30 days, but the access patterns for each object will be inconsistent => random access => S3 Intelligent-Tiering

upvoted 12 times

😑 👗 bujuman Most Recent 🕗 3 months ago

Selected Answer: BD

If we consider these statements:

1. For the first 30 days after upload, the objects will be accessed frequently

2. The objects will be used less frequently after 30 days, but the access patterns for each object will be inconsistent

3. The company must optimize its S3 storage costs while maintaining high availability and resiliency of stored assets.

4. The company uses multipart upload in parallel by using S3 APIs and overwrites if the same object is uploaded again.

Statements 1 and 2 cloudl be completed with option D and not A because datas are infrequently accessed only after 30 days.

Due to usage of multipart upload, to meet requirement regarding cost optimization, option B will be used to clean up buckets uncompleted file parts(statements 3 & 4).

upvoted 1 times

😑 👗 NayeraB 3 months, 3 weeks ago

Selected Answer: AD

Because A & D address the main ask, there's no mention of cost optimization.

upvoted 1 times

🖃 💄 NayeraB 3 months, 3 weeks ago

Facepalm It does ask for reducing the cost, A&B it is! upvoted 2 times

😑 📥 NayeraB 3 months, 3 weeks ago

Selected Answer: AC

Because A & C address the main ask, there's no mention of cost optimization. upvoted 1 times

😑 🌲 NayeraB 3 months, 3 weeks ago

Not C ':D, I meant to say A&D. Added another vote for that one. upvoted 1 times

😑 🏝 awsgeek75 5 months, 1 week ago

Selected Answer: AB

A as the access pattern for each object is inconsistent so let AWS AWS do the handling. B deals with multi-part duplication issues and saves money by deleting incomplete uploads C No mention of deleted object so this is a distractor

D The objects will be accessed in unpredictable pattern so can't use this

E Not HA compliant

upvoted 1 times

😑 🌲 awsgeek75 5 months, 1 week ago

Also, don't be confused by 30 days. The question has tricky wording: " The objects will be used less frequently after 30 days, but the access patterns for each object will be inconsistent"

It does NOT say that objects will be accessed less frequently after 30 days. It says the access is unpredictable which means it could go up or down. Don't make assumptions.

upvoted 3 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: AB

C is nonsense

E does not meet the "high availability and resiliency" requirement B is obvious (incomplete multipart uploads consume space -> cost money)

The tricky part is A vs. D. However, 'inconsistent access patterns' are the primary use case for Intelligent-Tiering. There are probably objects that wi never be accessed and that would be moved to Glacier Instant Retrieval by Intelligent-Tiering, thus the overall cost would be lower than with D. upvoted 3 times

😑 🌲 osmk 5 months, 2 weeks ago

bd https://docs.aws.amazon.com/AmazonS3/latest/userguide/storage-class-intro.html#sc-infreq-data-access =>S3 Standard-IA objects are resilient to the loss of an Availability Zone. This storage class offers greater availability and resiliency than the S3 One Zone-IA class upvoted 1 times

😑 🌲 raymondfekry 5 months, 3 weeks ago

Selected Answer: AB

I wouldnt go with D since " the access patterns for each object will be inconsistent.", so we cannot move all assets to IA upvoted 1 times

😑 🏝 Marco_St 6 months ago

Selected Answer: AB

incosistent access pattern brings more sense to use Intelligent-Tiering after 30 days which also covers infrequent access. upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: AB

- A. Move assets to S3 Intelligent-Tiering after 30 days.
- B. Configure an S3 Lifecycle policy to clean up incomplete multipart uploads. upvoted 1 times

😑 💄 vini15 10 months, 3 weeks ago

should be A and B upvoted 1 times

E & MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: BD

Option A has not been mentioned for resiliency in S3, check the page: https://docs.aws.amazon.com/AmazonS3/latest/userguide/disasterrecovery-resiliency.html Therefore, I am with B & D choices.

upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Intelligent-Tiering just moves to Standard-IA or Glacier Instant Access based on access patterns. This does not affect resiliency. upvoted 1 times

😑 🏝 alexandercamachop 1 year ago

Selected Answer: AB

A. Move assets to S3 Intelligent-Tiering after 30 days.B. Configure an S3 Lifecycle policy to clean up incomplete multipart uploads.

Explanation:

A. Moving assets to S3 Intelligent-Tiering after 30 days: This storage class automatically analyzes the access patterns of objects and moves them between frequent access and infrequent access tiers. Since the objects will be accessed frequently for the first 30 days, storing them in the frequen access tier during that period optimizes performance. After 30 days, when the access patterns become inconsistent, S3 Intelligent-Tiering will automatically move the objects to the infrequent access tier, reducing storage costs.

B. Configuring an S3 Lifecycle policy to clean up incomplete multipart uploads: Multipart uploads are used for large objects, and incomplete

multipart uploads can consume storage space if not cleaned up. By configuring an S3 Lifecycle policy to clean up incomplete multipart uploads, unnecessary storage costs can be avoided.

upvoted 1 times

😑 👗 antropaws 1 year ago

Selected Answer: AD

AD.

B makes no sense because multipart uploads overwrite objects that are already uploaded. The question never says this is a problem. upvoted 1 times

🖃 🌲 VellaDevil 11 months, 1 week ago

Questions says to optimize cost and if incomplete multiparts are not aborted it will still use capacity on S3 Bucket thus increase unnecessary cost.

upvoted 2 times

😑 💄 klayytech 1 year, 2 months ago

Selected Answer: AB

the following two actions to optimize S3 storage costs while maintaining high availability and resiliency of stored assets:

A. Move assets to S3 Intelligent-Tiering after 30 days. This will automatically move objects between two access tiers based on changing access patterns and save costs by reducing the number of objects stored in the expensive tier.

B. Configure an S3 Lifecycle policy to clean up incomplete multipart uploads. This will help to reduce storage costs by removing incomplete multipart uploads that are no longer needed.

upvoted 2 times

😑 🌲 datz 1 year, 2 months ago

Selected Answer: BD

B = Deleting incomplete uploads will lower S3 cost.

and D: as "For the first 30 days after upload, the objects will be accessed frequently"

Intelligent checks and if file haven't been access for 30 consecutive days and send infrequent access. So if somebody accessed the file 20 days after the upload with the intelligent process, file will be moved to Infrequent Access tier after 50 days. Which will reflect against the COST.

"S3 Intelligent-Tiering monitors access patterns and moves objects that have not been accessed for 30 consecutive days to the Infrequent Access tier and after 90 days of no access to the Archive Instant Access tier. For data that does not require immediate retrieval, you can set up S3 Intelligent-Tiering to monitor and automatically move objects that aren't accessed for 180 days or more to the Deep Archive Access tier to realize up to 95% in storage cost savings."

https://aws.amazon.com/s3/storage-classes/#Unknown_or_changing_access upvoted 4 times

😑 🌲 datz 1 year, 2 months ago

Apologies D is wrong for sure lol

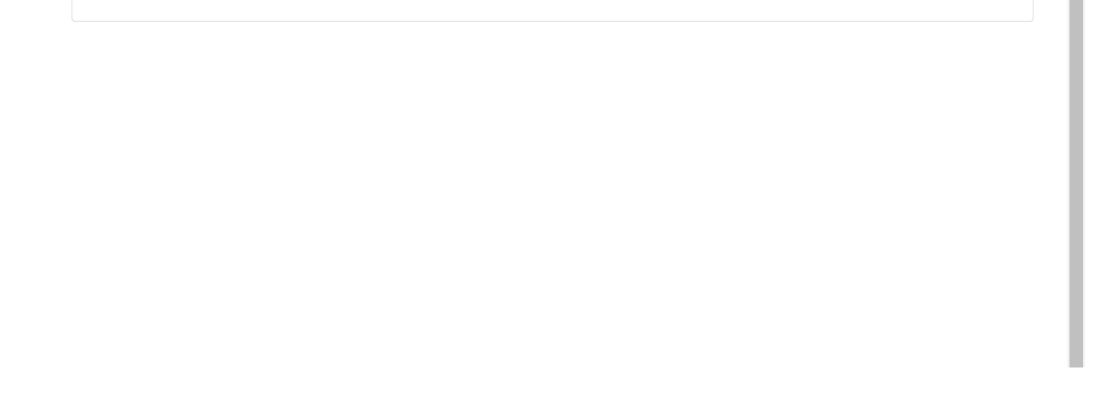
"S3 Standard-IA is for data that is accessed less frequently, but requires rapid access when needed." and for the first 30 days data is frequently accessed lol.

So best solution will be A - Amazon S3 Intelligent-Tiering upvoted 2 times

😑 畠 datz 1 year, 2 months ago

sorry remove the above comment, as we are setting solution which will be needed after 30 Days

this should be : Amazon S3 Standard-Infrequent Access (S3 Standard-IA) upvoted 2 times



Question #327

A solutions architect must secure a VPC network that hosts Amazon EC2 instances. The EC2 instances contain highly sensitive data and run in a private subnet. According to company policy, the EC2 instances that run in the VPC can access only approved third-party software repositories on the internet for software product updates that use the third party's URL. Other internet traffic must be blocked.

Which solution meets these requirements?

A. Update the route table for the private subnet to route the outbound traffic to an AWS Network Firewall firewall. Configure domain list rule groups.

B. Set up an AWS WAF web ACL. Create a custom set of rules that filter traffic requests based on source and destination IP address range sets.

C. Implement strict inbound security group rules. Configure an outbound rule that allows traffic only to the authorized software repositories on the internet by specifying the URLs.

D. Configure an Application Load Balancer (ALB) in front of the EC2 instances. Direct all outbound traffic to the ALB. Use a URL-based rule listener in the ALB's target group for outbound access to the internet.

Correct Answer: A

Community vote distribution

A (89%)

11%

😑 🆀 Bhawesh (Highly Voted 📦) 1 year, 3 months ago

Selected Answer: A

Correct Answer A. Send the outbound connection from EC2 to Network Firewall. In Network Firewall, create stateful outbound rules to allow certain domains for software patch download and deny all other domains.

https://docs.aws.amazon.com/network-firewall/latest/developerguide/suricata-examples.html#suricata-example-domain-filtering upvoted 14 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Option A uses a network firewall which is overkill for instance-level rules. upvoted 1 times

😑 🌲 UnluckyDucky (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

Can't use URLs in outbound rule of security groups. URL Filtering screams Firewall. upvoted 10 times

😑 📥 TheFivePips [Most Recent 🕑] 3 months, 2 weeks ago

Selected Answer: A

Security Groups operate at the transport layer (Layer 4) of the OSI model and are primarily concerned with controlling traffic based on IP addresse ports, and protocols. They do not have the capability to inspect or filter traffic based on URLs.

The solution to restrict outbound internet traffic based on specific URLs typically involves using a proxy or firewall that can inspect the application layer (Layer 7) of the OSI model, where URL information is available.

AWS Network Firewall operates at the network and application layers, allowing for more granular control, including the ability to inspect and filter traffic based on domain names or URLs.

By configuring domain list rule groups in AWS Network Firewall, you can specify which URLs are allowed for outbound traffic.

This option is more aligned with the requirement of allowing access to approved third-party software repositories based on their URLs. upvoted 3 times

😑 💄 awsgeek75 5 months, 1 week ago

Selected Answer: A

https://aws.amazon.com/network-firewall/features/

"Web filtering:

AWS Network Firewall supports inbound and outbound web filtering for unencrypted web traffic. For encrypted web traffic, Server Name Indication (SNI) is used for blocking access to specific sites. SNI is an extension to Transport Layer Security (TLS) that remains unencrypted in the traffic flow and indicates the destination hostname a client is attempting to access over HTTPS. In addition, **AWS Network Firewall can filter fully qualified domain names (FQDN).**"

Always use an AWS product if the advertisement meets the use case.

upvoted 1 times

😑 💄 farnamjam 5 months, 2 weeks ago

Selected Answer: A

AWS Network Firewall Protect your entire Amazon VPC

• From Layer 3 to Layer 7 protection

• Any direction, you can inspect

Traffic filtering: Allow, drop, or alert for the traffic that matches the rules, • Active flow inspection to intrusion prevention upvoted 1 times

😑 💄 Subhrangsu 5 months, 4 weeks ago

D not possible? upvoted 1 times

😑 🏝 awsgeek75 5 months, 1 week ago

ALB is for inbound traffic. D is not possible as it is suggesting to direct OUTBOUND traffic. upvoted 2 times

😑 🌲 Cyberkayu 5 months, 4 weeks ago

Selected Answer: A

AWS network firewall is stateful, providing control and visibility to Layer 3-7 network traffic, thus cover the application too upvoted 1 times

🖃 🌡 TariqKipkemei 8 months ago

Selected Answer: A

Just tried on the console to set up an outbound rule, and URLs cannot be used as a destination. I will opt for A. upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: C

Implement strict inbound security group rules

Configure an outbound security group rule to allow traffic only to the approved software repository URLs The key points:

Highly sensitive EC2 instances in private subnet that can access only approved URLs Other internet access must be blocked

Security groups act as a firewall at the instance level and can control both inbound and outbound traffic. upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Security Groups work with CIDR ranges, not URLs. upvoted 3 times

😑 📥 kelvintoys93 12 months ago

Isnt private subnet not connectible to internet at all, unless with a NAT gateway? upvoted 4 times

🖃 🌲 VeseljkoD 1 year, 3 months ago

Selected Answer: A

We can't specifu URL in outbound rule of security group. Create free tier AWS account and test it. upvoted 2 times

😑 💄 Leo301 1 year, 3 months ago

Selected Answer: C CCCCCCCCCCC upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Security Groups with IP ranges, not URLs upvoted 1 times

😑 💄 Brak 1 year, 3 months ago

It can't be C. You cannot use URLs in the outbound rules of a security group

upvoted 3 times

😑 🌲 johnmcclane78 1 year, 3 months ago

Option C is the best solution to meet the requirements of this scenario. Implementing strict inbound security group rules that only allow traffic from approved sources can help secure the VPC network that hosts Amazon EC2 instances. Additionally, configuring an outbound rule that allows traffic only to the authorized software repositories on the internet by specifying the URLs will ensure that only approved third-party software repositories can be accessed from the EC2 instances. This solution does not require any additional AWS services and can be implemented using VPC security groups.

Option A is not the best solution as it involves the use of AWS Network Firewall, which may introduce additional operational overhead. While domain list rule groups can be used to block all internet traffic except for the approved third-party software repositories, this solution is more complex than necessary for this scenario.

upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

How do you use a Security Group to allow access to https://server.com/repoa while denying access to https://server.com/repob ? Security Groups work with IP ranges.

upvoted 1 times

⊟ ▲ Steve_4542636 1 year, 3 months ago

Selected Answer: C

In the security group, only allow inbound traffic originating from the VPC. Then only allow outbound traffic with a whitelisted IP address. The question asks about blocking EC2 instances, which is best for security groups since those are at the EC2 instance level. A network firewall is at the VPC level, which is not what the question is asking to protect.

upvoted 1 times

😑 👗 Theodorz 1 year, 3 months ago

Is Security Group able to allow a specific URL? According to https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html, I cannot find such description.

upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Security Groups work with IP ranges, not URLs. upvoted 1 times

😑 🌲 KZM 1 year, 3 months ago

I am confused that It seems both options A and C are valid solutions. upvoted 3 times

😑 🌲 Zohx 1 year, 3 months ago

Same here - why is C not a valid option? upvoted 2 times

😑 👗 Karlos99 1 year, 3 months ago

Because in this case, the session is initialized from inside upvoted 1 times

😑 💄 Karlos99 1 year, 3 months ago

And it is easier to do it at the level upvoted 1 times

😑 👗 Karlos99 1 year, 3 months ago

And it is easier to do it at the VPC level upvoted 1 times

😑 🌲 Mia2009687 11 months, 1 week ago

I think C is in private subnet. Even with security group, it could not go public to download the software. upvoted 1 times

😑 💄 ruqui 1 year ago

C is not valid. Security groups can allow only traffic from specific ports and/or IPs, you can't use an URL. Correct answer is A upvoted 2 times

😑 💄 jennyka76 1 year, 3 months ago

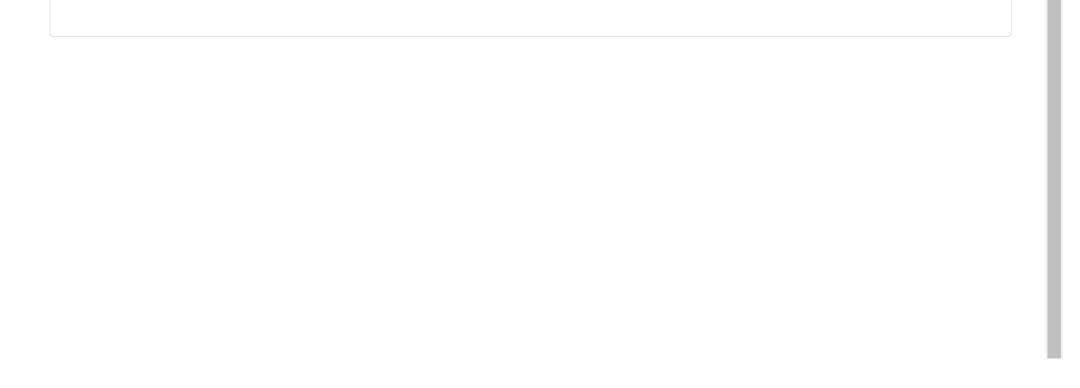
Answer - A

https://aws.amazon.com/premiumsupport/knowledge-center/ec2-al1-al2-update-yum-without-internet/ upvoted 5 times

😑 💄 asoli 1 year, 2 months ago

Although the answer is A, the link you provided here is not related to this question. The information about "Network Firewall" and how it can help this issue is here: https://docs.aws.amazon.com/network-firewall/latest/developerguide/suricata-examples.html#suricata-example-domain-filtering

(thanks to "@Bhawesh" to provide the link in their answer) upvoted 3 times



A company is hosting a three-tier ecommerce application in the AWS Cloud. The company hosts the website on Amazon S3 and integrates the website with an API that handles sales requests. The company hosts the API on three Amazon EC2 instances behind an Application Load Balancer (ALB). The API consists of static and dynamic front-end content along with backend workers that process sales requests asynchronously.

The company is expecting a significant and sudden increase in the number of sales requests during events for the launch of new products.

What should a solutions architect recommend to ensure that all the requests are processed successfully?

A. Add an Amazon CloudFront distribution for the dynamic content. Increase the number of EC2 instances to handle the increase in traffic.

B. Add an Amazon CloudFront distribution for the static content. Place the EC2 instances in an Auto Scaling group to launch new instances based on network traffic.

C. Add an Amazon CloudFront distribution for the dynamic content. Add an Amazon ElastiCache instance in front of the ALB to reduce traffic for the API to handle.

D. Add an Amazon CloudFront distribution for the static content. Add an Amazon Simple Queue Service (Amazon SQS) queue to receive requests from the website for later processing by the EC2 instances.

Correct Answer: D		
Community vote distribution		
D (70%)	B (30%)	

😑 👗 Steve_4542636 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: B

The auto-scaling would increase the rate at which sales requests are "processed", whereas a SQS will ensure messages don't get lost. If you were a fast food restaurant with a long line with 3 cash registers, would you want more cash registers or longer ropes to handle longer lines? Same concept here.

upvoted 19 times

😑 🌲 Chef_couincouin 7 months, 1 week ago

ensure that all the requests are processed successfully? doesn't mean more quickly upvoted 2 times

😑 💄 lizzard812 1 year, 2 months ago

Hell true: I'd rather combine the both options: a SQS + auto-scaled bound to the length of the queue. upvoted 8 times

😑 👗 joechen2023 12 months ago

As an architecture, it is not possible to add more backend workers (it is part of the HR and boss's job, not for architecture design the solution). So when the demand surge, the only correct choice is to buffer them using SQS so that workers can take their time to process it successfully upvoted 1 times

😑 💄 rushi0611 1 year, 1 month ago

"ensure that all the requests are processed successfully?"

we want to ensure success not the speed, even in the auto-scaling, there is the chance for the failure of the request but not in SQS- if it is failed in sqs it is sent back to the queue again and new consumer will pick the request.

upvoted 16 times

😑 👗 Abhineet9148232 (Highly Voted 🖬) 1 year, 1 month ago

Selected Answer: D

B doesn't fit because Auto Scaling alone does not guarantee that all requests will be processed successfully, which the question clearly asks for.

D ensures that all messages are processed. upvoted 15 times

😑 👗 Adinas_ (Most Recent 🕐) 3 months, 1 week ago

Selected Answer: B

Important question to answer D. Can you connect the website with SQS directly? How do you control access to who can put messages to SQS? I have never seen such a situation it has to be at least behind API gateway. So that conclusion brings me to answer B, application also can process async everything without SQS.

upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: D

I chose D because I love SQS! These questions are hammering SQS in every solution as a "protagonist" that saves the day. AC are clearly useless

B can work but D is better because of SQS being better than EC2 scaling. The other part is that backend workers process the request asynchronously therefore a queue is better.

upvoted 3 times

😑 💄 awsgeek75 5 months, 1 week ago

Selected Answer: D

A and C don't solve anything so ignore them.

Between B and D, D guarantees the scaling via SQS and order processing. B can also do that but it is not guaranteed that EC2 scaling will work to process the order.

As usual, I suspect that this "brain dump" may be missing critical wording to differentiate between the options so read carefully in the exam. upvoted 3 times

😑 💄 pentium75 5 months, 2 weeks ago

Selected Answer: D

There are two components that we need

- * Frontend: Hosted on S3, performance can be increased with CloudFront
- * Backend: There's no reason to process all the orders instantly, so we should decouple the processing from the API which we do with SQS

Thus D, CloudFront + SQS upvoted 6 times

😑 💄 pentium75 5 months, 2 weeks ago

And as others said, B might speed up the processing or reduce the number of lost orders, but we need to make sure that "ALL requests are processed successfully", NOT that "less requests are lost".

upvoted 2 times

😑 🌲 Marco_St 6 months ago

Selected Answer: D

I picked B before I read D option. Read the question again, it concerns:asynchronous processing of sales requests, Option D seems to align more closely with the requirements. So the requirement is ensuring all requests are processed successfully which means no request would be missed. So D is better option

upvoted 3 times

😑 🌲 wsdasdasdqwdaw 7 months, 4 weeks ago

Amazon SQS will make sure that the requests are stored and didn't get lost. After that the workers asynchronously will process the requests. I would go for D

upvoted 3 times

😑 🌲 TariqKipkemei 8 months ago

Technically both option B and D would work. But, there's a need to process requests asynchronously, hence decoupling, hence Amazon SQS. I will settle with option D.

upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: D D is correct. upvoted 2 times

😑 🏝 antropaws 1 year ago

Selected Answer: D D is correct. upvoted 1 times

😑 🌲 kruasan 1 year, 1 month ago

Selected Answer: D

An SQS queue acts as a buffer between the frontend (website) and backend (API). Web requests can dump messages into the queue at a high throughput, then the queue handles delivering those messages to the API at a controlled rate that it can sustain. This prevents the API from being overwhelmed.

upvoted 2 times

😑 💄 kruasan 1 year, 1 month ago

Options A and B would help by scaling out more instances, however, this may not scale quickly enough and still risks overwhelming the API. Caching parts of the dynamic content (option C) may help but does not provide the buffering mechanism that a queue does. upvoted 1 times

😑 🌲 seifshendy99 1 year, 1 month ago

Selected Answer: D

D make sens

upvoted 1 times

😑 🎍 kraken21 1 year, 2 months ago

D makes more sense upvoted 1 times

😑 👗 kraken21 1 year, 2 months ago

There is no clarity on what the asynchronous process is but D makes more sense if we want to process all requests successfully. The way the question is worded it looks like the msgs->SQS>ELB/Ec2. This ensures that the messages are processed but may be delayed as the load increases. upvoted 1 times

😑 💄 channn 1 year, 2 months ago

Selected Answer: D

although i agree with B for better performance. but i choose 'D' as question request to ensure that all the requests are processed successfully. upvoted 2 times

😑 💄 klayytech 1 year, 2 months ago

To ensure that all the requests are processed successfully, I would recommend adding an Amazon CloudFront distribution for the static content and an Amazon CloudFront distribution for the dynamic content. This will help to reduce the load on the API and improve its performance. You can also place the EC2 instances in an Auto Scaling group to launch new instances based on network traffic. This will help to ensure that you have enough capacity to handle the increase in traffic during events for the launch of new products. upvoted 1 times

A security audit reveals that Amazon EC2 instances are not being patched regularly. A solutions architect needs to provide a solution that will run regular security scans across a large fleet of EC2 instances. The solution should also patch the EC2 instances on a regular schedule and provide a report of each instance's patch status.

Which solution will meet these requirements?

A. Set up Amazon Macie to scan the EC2 instances for software vulnerabilities. Set up a cron job on each EC2 instance to patch the instance on a regular schedule.

B. Turn on Amazon GuardDuty in the account. Configure GuardDuty to scan the EC2 instances for software vulnerabilities. Set up AWS Systems Manager Session Manager to patch the EC2 instances on a regular schedule.

C. Set up Amazon Detective to scan the EC2 instances for software vulnerabilities. Set up an Amazon EventBridge scheduled rule to patch the EC2 instances on a regular schedule.

D. Turn on Amazon Inspector in the account. Configure Amazon Inspector to scan the EC2 instances for software vulnerabilities. Set up AWS Systems Manager Patch Manager to patch the EC2 instances on a regular schedule.

Correct Answer: D

Community vote distribution

D (100%)

😑 👗 elearningtakai (Highly Voted 🐽) 1 year, 2 months ago

Selected Answer: D

Amazon Inspector is a security assessment service that automatically assesses applications for vulnerabilities or deviations from best practices. It can be used to scan the EC2 instances for software vulnerabilities. AWS Systems Manager Patch Manager can be used to patch the EC2 instances on a regular schedule. Together, these services can provide a solution that meets the requirements of running regular security scans and patching EC2 instances on a regular schedule. Additionally, Patch Manager can provide a report of each instance's patch status.

😑 👗 awsgeek75 (Most Recent 🕗) 5 months, 1 week ago

Selected Answer: D

A handy reference page for such questions is: https://aws.amazon.com/products/security/ Amazon Inspector = vulnerability detection = patching https://aws.amazon.com/inspector/ upvoted 1 times

Guru4Cloud 9 months, 1 week ago

(Selected Answer: D) dddddddddd upvoted 1 times

😑 🌲 Steve_4542636 1 year, 3 months ago

Selected Answer: D

Inspecter is for EC2 instances and network accessibility of those instances https://portal.tutorialsdojo.com/forums/discussion/difference-between-security-hub-detective-and-inspector/ upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: D

Amazon Inspector is a security assessment service that helps improve the security and compliance of applications deployed on Amazon Web Services (AWS). It automatically assesses applications for vulnerabilities or deviations from best practices. Amazon Inspector can be used to identify security issues and recommend fixes for them. It is an ideal solution for running regular security scans across a large fleet of EC2 instances.

AWS Systems Manager Patch Manager is a service that helps you automate the process of patching Windows and Linux instances. It provides a simple, automated way to patch your instances with the latest security patches and updates. Patch Manager helps you maintain compliance with security policies and regulations by providing detailed reports on the patch status of your instances. upvoted 4 times

upvoted 4 times

😑 🌲 TungPham 1 year, 3 months ago

Selected Answer: D

Amazon Inspector for EC2

https://aws.amazon.com/vi/inspector/faqs/?nc1=f_ls

Amazon system manager Patch manager for automates the process of patching managed nodes with both security-related updates and other

types of updates.

http://webcache.googleusercontent.com/search?q=cache:FbFTc6XKycwJ:https://medium.com/aws-architech/use-case-aws-inspector-vs-guardduty 3662bf80767a&hl=vi&gl=kr&strip=1&vwsrc=0 upvoted 2 times

😑 💄 jennyka76 1 year, 3 months ago

answer - D https://aws.amazon.com/inspector/faqs/ upvoted 2 times

😑 💄 Neha999 1 year, 3 months ago

D as AWS Systems Manager Patch Manager can patch the EC2 instances. upvoted 1 times

A company is planning to store data on Amazon RDS DB instances. The company must encrypt the data at rest.

What should a solutions architect do to meet this requirement?

- A. Create a key in AWS Key Management Service (AWS KMS). Enable encryption for the DB instances.
- B. Create an encryption key. Store the key in AWS Secrets Manager. Use the key to encrypt the DB instances.
- C. Generate a certificate in AWS Certificate Manager (ACM). Enable SSL/TLS on the DB instances by using the certificate.
- D. Generate a certificate in AWS Identity and Access Management (IAM). Enable SSL/TLS on the DB instances by using the certificate.

Correct Answer: C

Community vote distribution

A (100%)

😑 💄 awsgeek75 5 months, 1 week ago

Selected Answer: A

A: Enable encryption

B: KMS is for storage and doesn't directly integrate to DB without further work

C and D are for data encryption in transit not at rest

upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Actually, D is total nonsense and no idea what it is saying upvoted 1 times

😑 💄 robpalacios1 6 months, 3 weeks ago

Selected Answer: A

KMS only generates and manages encryption keys. That's it. That's all it does. It's a fundamental service that you as well as other AWS Services (like Secrets Manager) use it to encrypt or decrypt.

Key Management Service. Secrets Manager is for database connection strings. upvoted 3 times upvoted 3 times

😑 🏝 antropaws 1 year ago

OK, but why not B??? upvoted 1 times

😑 🌲 aaroncelestin 9 months, 3 weeks ago

KMS only generates and manages encryption keys. That's it. That's all it does. It's a fundamental service that you as well as other AWS Services (like Secrets Manager) use it to encrypt or decrypt.

Secrets Manager stores actual secrets like passwords, pass phrases, and anything else you want encrypted. SM uses KMS to encrypt its secrets, would be circular to get an encryption key from KMS to use SM to encrypt the encryption key. upvoted 4 times

😑 👗 SkyZeroZx 1 year, 1 month ago

Selected Answer: A ANSWER - A

upvoted 1 times

😑 💄 datz 1 year, 2 months ago

Selected Answer: A

A for sure

upvoted 1 times

PRASAD180 1 year, 3 months ago

A is 100% Crt

upvoted 1 times

😑 🌲 Steve_4542636 1 year, 3 months ago

Selected Answer: A

Key Management Service. Secrets Manager is for database connection strings. upvoted 3 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: A

A is the correct solution to meet the requirement of encrypting the data at rest.

To encrypt data at rest in Amazon RDS, you can use the encryption feature of Amazon RDS, which uses AWS Key Management Service (AWS KMS). With this feature, Amazon RDS encrypts each database instance with a unique key. This key is stored securely by AWS KMS. You can manage your own keys or use the default AWS-managed keys. When you enable encryption for a DB instance, Amazon RDS encrypts the underlying storage, including the automated backups, read replicas, and snapshots. upvoted 3 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: A

AWS Key Management Service (KMS) is used to manage the keys used to encrypt and decrypt the data. upvoted 1 times

😑 🌲 pbpally 1 year, 3 months ago

Selected Answer: A

Option A

upvoted 1 times

😑 👗 NolaHOla 1 year, 3 months ago

A. Create a key in AWS Key Management Service (AWS KMS). Enable encryption for the DB instances is the correct answer to encrypt the data at rest in Amazon RDS DB instances.

Amazon RDS provides multiple options for encrypting data at rest. AWS Key Management Service (KMS) is used to manage the keys used to encrypt and decrypt the data. Therefore, a solution architect should create a key in AWS KMS and enable encryption for the DB instances to encrypt the data at rest.

upvoted 1 times

😑 🌲 jennyka76 1 year, 3 months ago

ANSWER - A https://docs.aws.amazon.com/whitepapers/latest/efs-encrypted-file-systems/managing-keys.html upvoted 1 times

😑 🌲 Bhawesh 1 year, 3 months ago

Selected Answer: A

A. Create a key in AWS Key Management Service (AWS KMS). Enable encryption for the DB instances.

https://www.examtopics.com/discussions/amazon/view/80753-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 2 times

A company must migrate 20 TB of data from a data center to the AWS Cloud within 30 days. The company's network bandwidth is limited to 15 Mbps and cannot exceed 70% utilization.

What should a solutions architect do to meet these requirements?

A. Use AWS Snowball.

B. Use AWS DataSync.

C. Use a secure VPN connection.

D. Use Amazon S3 Transfer Acceleration.

Correct Answer: A

Community vote distribution

A (91%)

9%

😑 👗 kruasan (Highly Voted 🖬) 1 year, 1 month ago

Selected Answer: A

Don't mix up between Mbps and Mbs. The proper calculation is:

10 MB/s x 86,400 seconds per day x 30 days/8 = 3,402,000 MB or approximately 3.4 TB upvoted 12 times

😑 🏝 awsgeek75 (Highly Voted 🖬) 5 months, 1 week ago

Selected Answer: A

Honestly, the company has bigger problem with that slow connection :) 30 days is the first clue so you can get snowball shipped and sent back (5 days each way) upvoted 5 times

😑 📥 cabta [Most Recent 🕑] 5 months, 1 week ago

Selected Answer: A

aws snowball은 대용량 데이터 이전하기 위한 것 입니다. upvoted 1 times

😑 👗 wsdasdasdqwdaw 7 months, 4 weeks ago

(15/8) = 1.875 MB/s 1.875 MB/s x 0.7 = 1.3125 (70% NW utilization) MB/s 1.3125 MB/s x 3600 = 4725 MB (MB per 1 hour) 4725 x 24 = 113400 MB per 1 full day (24h) 113400 x 30 = 3402000 MB for 30 days 3402000 / 1024 = 3322.265625 GB for 30 days 3322.265625 / 1024 ~ 3.24 TB for 30 days => not enough for NW => Snowball which is A upvoted 3 times

😑 🎩 TariqKipkemei 8 months ago

Selected Answer: A

I wont try to think to much about it, AWS Snowball was designed for this upvoted 3 times

😑 🛔 Guru4Cloud 9 months ago

Selected Answer: A

° 15 Mbps bandwidth with 70% max utilization limits the effective bandwidth to 10.5 Mbps or 1.31 MB/s.

° 20 TB of data at 1.31 MB/s would take approximately 193 days to transfer over the network. ° This far exceeds the 30 day requirement. ° AWS Snowball provides a physical storage device that can be shipped to the data center. Up to 80 TB can be loaded onto a Snowball device and shipped back to AWS.

This allows the 20 TB of data to be transferred much faster by shipping rather than over the limited network bandwidth.

° Snowball uses tamper-resistant enclosures and 256-bit encryption to keep the data secure during transit.

° The data can be imported into Amazon S3 or Amazon Glacier once the Snowball is received by AWS. upvoted 4 times

🖃 💄 UnluckyDucky 1 year, 2 months ago

Selected Answer: B

10 MB/s x 86,400 seconds per day x 30 days = 25,920,000 MB or approximately 25.2 TB

That's how much you can transfer with a 10 Mbps link (roughly 70% of the 15 Mbps connection).

With a consistent connection of 8~ Mbps, and 30 days, you can upload 20 TB of data.

My math says B, my brain wants to go with A. Take your pick. upvoted 3 times

Zox42 1 year, 2 months ago 15 Mbps * 0.7 = 1.3125 MB/s and 1.3125 * 86,400 * 30 = 3.402.000 MB Answer A is correct. upvoted 2 times

😑 🌡 hozy_ 11 months ago

How can 15 * 0.7 be 1.3125 LMAO upvoted 1 times

😑 🌡 hozy_ 11 months ago

OMG it was Mbps! Not MBps. You are right! awesome!!! upvoted 2 times

E Sox42 1 year, 2 months ago

3,402,000 upvoted 2 times

😑 🌲 Bilalazure 1 year, 3 months ago

Selected Answer: A

Aws snowball upvoted 2 times

😑 💄 PRASAD180 1 year, 3 months ago

A is 100% Crt upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: A

AWS Snowball upvoted 1 times

😑 🌲 pbpally 1 year, 3 months ago

Selected Answer: A

Option a upvoted 1 times

😑 💄 jennyka76 1 year, 3 months ago

ANSWER - A https://docs.aws.amazon.com/snowball/latest/ug/whatissnowball.html upvoted 1 times

😑 💄 AWSSHA1 1 year, 3 months ago

Selected Answer: A option A upvoted 3 times

A company needs to provide its employees with secure access to confidential and sensitive files. The company wants to ensure that the files can be accessed only by authorized users. The files must be downloaded securely to the employees' devices.

The files are stored in an on-premises Windows file server. However, due to an increase in remote usage, the file server is running out of capacity.

Which solution will meet these requirements?

A. Migrate the file server to an Amazon EC2 instance in a public subnet. Configure the security group to limit inbound traffic to the employees' IP addresses.

B. Migrate the files to an Amazon FSx for Windows File Server file system. Integrate the Amazon FSx file system with the on-premises Active Directory. Configure AWS Client VPN.

C. Migrate the files to Amazon S3, and create a private VPC endpoint. Create a signed URL to allow download.

D. Migrate the files to Amazon S3, and create a public VPC endpoint. Allow employees to sign on with AWS IAM Identity Center (AWS Single Sign-On).

Correct Answer: *B*

Community vote distribution

B (94%)

6%

😑 🌲 elearningtakai (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: B

This solution addresses the need for secure access to confidential and sensitive files, as well as the increase in remote usage. Migrating the files to Amazon FSx for Windows File Server provides a scalable, fully managed file storage solution in the AWS Cloud that is accessible from on-premises and cloud environments. Integration with the on-premises Active Directory allows for a consistent user experience and centralized access control. AWS Client VPN provides a secure and managed VPN solution that can be used by employees to access the files securely. upvoted 7 times

😑 👗 NayeraB [Most Recent 🕑] 3 months, 3 weeks ago

Selected Answer: B

My money is on B, but it's still not mentioned that the customer used an on-prem Active Directory. upvoted 2 times

😑 上 pentium75 5 months, 2 weeks ago

Selected Answer: B

C has "signed URL", everyone who has the URL could download. Plus, only B ensure the "must be downloaded securely" part by using VPN. upvoted 3 times

😑 🆀 TariqKipkemei 8 months ago

Selected Answer: B

Windows file server = Amazon FSx for Windows File Server file system Files can be accessed only by authorized users = On-premises Active Directory upvoted 1 times

😑 🆀 BrijMohan08 9 months, 1 week ago

Selected Answer: C

Remember: The file server is running out of capacity. upvoted 1 times

😑 💄 awsgeek75 4 months, 3 weeks ago

But then how do you download the files to user's machine in a secure way? upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

That's why we're using FSX for Windows File Server in AWS.

"Signed URL to allow download" would allow everyone who has the URL to download the files, but we must "ensure that the files can be accessed only by authorized users". Plus, the "private VPC endpoint" is not really of use here, it's still S3 and the users are not in AWS. upvoted 2 times

🖃 🌡 SkyZeroZx 1 year, 1 month ago

Selected Answer: B

B is the correct answer upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: B

B is the best solution for the given requirements. It provides a secure way for employees to access confidential and sensitive files from anywhere using AWS Client VPN. The Amazon FSx for Windows File Server file system is designed to provide native support for Windows file system features such as NTFS permissions, Active Directory integration, and Distributed File System (DFS). This means that the company can continue to use their on-premises Active Directory to manage user access to files.

upvoted 3 times

😑 💄 Bilalazure 1 year, 3 months ago

B is the correct answer upvoted 1 times

😑 💄 jennyka76 1 year, 3 months ago

Answer - B

- 1- https://docs.aws.amazon.com/fsx/latest/WindowsGuide/what-is.html
- 2- https://docs.aws.amazon.com/fsx/latest/WindowsGuide/managing-storage-capacity.html

upvoted 1 times

🖃 🌡 Neha999 1 year, 3 months ago

В

Amazon FSx for Windows File Server file system upvoted 2 times

What should a solutions architect recommend to ensure the application is able to handle the workload and avoid downtime?

A. Configure an Amazon CloudFront distribution in front of the ALB.

B. Configure an EC2 Auto Scaling simple scaling policy based on CPU utilization.

C. Configure an EC2 Auto Scaling scheduled scaling policy based on the monthly schedule.

D. Configure Amazon ElastiCache to remove some of the workload from the EC2 instances.

Correct Answer: C

Community vote distribution

C (100%)

😑 🌡 TariqKipkemei 8 months ago

Selected Answer: C

'On the first day of every month at midnight' = Scheduled scaling policy upvoted 3 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: C

By configuring a scheduled scaling policy, the EC2 Auto Scaling group can proactively launch additional EC2 instances before the CPU utilization peaks to 100%. This will ensure that the application can handle the workload during the month-end financial calculation batch, and avoid any disruption or downtime.

Configuring a simple scaling policy based on CPU utilization or adding Amazon CloudFront distribution or Amazon ElastiCache will not directly address the issue of handling the monthly peak workload. upvoted 3 times

😑 🌲 Steve_4542636 1 year, 3 months ago

Selected Answer: C

If the scaling were based on CPU or memory, it requires a certain amount of time above that threshold, 5 minutes for example. That would mean the CPU would be at 100% for five minutes.

upvoted 2 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: C

C: Configure an EC2 Auto Scaling scheduled scaling policy based on the monthly schedule is the best option because it allows for the proactive scaling of the EC2 instances before the monthly batch run begins. This will ensure that the application is able to handle the increased workload without experiencing downtime. The scheduled scaling policy can be configured to increase the number of instances in the Auto Scaling group a few hours before the batch run and then decrease the number of instances after the batch run is complete. This will ensure that the resources are available when needed and not wasted when not needed.

The most appropriate solution to handle the increased workload during the monthly batch run and avoid downtime would be to configure an EC2

Auto Scaling scheduled scaling policy based on the monthly schedule. upvoted 2 times

😑 🌲 LuckyAro 1 year, 3 months ago

Scheduled scaling policies allow you to schedule EC2 instance scaling events in advance based on a specified time and date. You can use this feature to plan for anticipated traffic spikes or seasonal changes in demand. By setting up scheduled scaling policies, you can ensure that you have the right number of instances running at the right time, thereby optimizing performance and reducing costs.

To set up a scheduled scaling policy in EC2 Auto Scaling, you need to specify the following:

Start time and date: The date and time when the scaling event should begin.

Desired capacity: The number of instances that you want to have running after the scaling event.

Recurrence: The frequency with which the scaling event should occur. This can be a one-time event or a recurring event, such as daily or weekly upvoted 1 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: C

C is the correct answer as traffic spike is known upvoted 1 times

😑 上 jennyka76 1 year, 3 months ago

ANSWER - C

https://docs.aws.amazon.com/autoscaling/ec2/userguide/ec2-auto-scaling-scheduled-scaling.html upvoted 2 times

😑 💄 Neha999 1 year, 3 months ago

C as the schedule of traffic spike is known beforehand. upvoted 1 times

A company wants to give a customer the ability to use on-premises Microsoft Active Directory to download files that are stored in Amazon S3. The customer's application uses an SFTP client to download the files.

Which solution will meet these requirements with the LEAST operational overhead and no changes to the customer's application?

A. Set up AWS Transfer Family with SFTP for Amazon S3. Configure integrated Active Directory authentication.

B. Set up AWS Database Migration Service (AWS DMS) to synchronize the on-premises client with Amazon S3. Configure integrated Active Directory authentication.

C. Set up AWS DataSync to synchronize between the on-premises location and the S3 location by using AWS IAM Identity Center (AWS Single Sign-On).

D. Set up a Windows Amazon EC2 instance with SFTP to connect the on-premises client with Amazon S3. Integrate AWS Identity and Access Management (IAM).

Correct Answer: *B*

Community vote distribution

A (100%)

😑 👗 Steve_4542636 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

SFTP, FTP - think "Transfer" during test time upvoted 16 times

😑 👗 wsdasdasdqwdaw (Most Recent 🕗) 7 months, 4 weeks ago

LEAST operational overhead => A, D is much more operational overhead upvoted 1 times

😑 🌲 TariqKipkemei 8 months ago

Selected Answer: A

SFTP, No changes to the customer's application? = AWS Transfer Family upvoted 1 times

😑 🏝 Guru4Cloud 9 months, 1 week ago

Transfer family is used for SFTP upvoted 1 times

Iive_reply_developers 10 months, 3 weeks ago SFTP -> transfer family

upvoted 1 times

😑 🏝 antropaws 1 year ago

Selected Answer: A

A no doubt. Why the system gives B as the correct answer? upvoted 1 times

😑 🏝 Iht 1 year, 1 month ago

Selected Answer: A

just A

upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: A

AWS Transfer Family

upvoted 2 times

😑 🌲 LuckyAro 1 year, 3 months ago

AWS Transfer Family is a fully managed service that allows customers to transfer files over SFTP, FTPS, and FTP directly into and out of Amazon S3. It eliminates the need to manage any infrastructure for file transfer, which reduces operational overhead. Additionally, the service can be configured to use an existing Active Directory for authentication, which means that no changes need to be made to the customer's application. upvoted 2 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: A

Transfer family is used for SFTP upvoted 1 times

😑 📥 TungPham 1 year, 3 months ago

Selected Answer: A

using AWS Batch to LEAST operational overhead and have SFTP to no changes to the customer's application

https://aws.amazon.com/vi/blogs/architecture/managed-file-transfer-using-aws-transfer-family-and-amazon-s3/ upvoted 2 times

😑 🌲 Bhawesh 1 year, 3 months ago

Selected Answer: A

A. Set up AWS Transfer Family with SFTP for Amazon S3. Configure integrated Active Directory authentication.

https://docs.aws.amazon.com/transfer/latest/userguide/directory-services-users.html upvoted 3 times

Which solution meets these requirements?

A. Use the aws ec2 register-image command to create an AMI from a snapshot. Use AWS Step Functions to replace the AMI in the Auto Scaling group.

B. Enable Amazon Elastic Block Store (Amazon EBS) fast snapshot restore on a snapshot. Provision an AMI by using the snapshot. Replace the AMI in the Auto Scaling group with the new AMI.

C. Enable AMI creation and define lifecycle rules in Amazon Data Lifecycle Manager (Amazon DLM). Create an AWS Lambda function that modifies the AMI in the Auto Scaling group.

D. Use Amazon EventBridge to invoke AWS Backup lifecycle policies that provision AMIs. Configure Auto Scaling group capacity limits as an event source in EventBridge.

Correct Answer: C

Community vote distribution

B (91%)

6%

😑 👗 danielklein09 (Highly Voted 🗤) 1 year ago

readed the question 5 times, didn't understood a thing :(upvoted 53 times

😑 👗 Guru4Cloud 9 months, 1 week ago

Me too upvoted 4 times

⊟ ▲ lostmagnet001 4 months ago

the same here! upvoted 1 times

😑 👗 bdp123 (Highly Voted 🖬 1 year, 3 months ago

Selected Answer: B

Enabling Amazon Elastic Block Store (Amazon EBS) fast snapshot restore on a snapshot allows you to quickly create a new Amazon Machine Image (AMI) from a snapshot, which can help reduce the initialization latency when provisioning new instances. Once the AMI is provisioned, you can replace the AMI in the Auto Scaling group with the new AMI. This will ensure that new instances are launched from the updated AMI and are able to meet the increased demand quickly. upvoted 10 times

😑 🎍 awsgeek75 (Most Recent 🕐) 5 months, 1 week ago

Selected Answer: B

The question wording is pretty weird but the only thing of value is latency during initialisation which makes B the correct option. https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-fast-snapshot-restore.html

C and D will probably work (ambiguous language) but won't handle initialising latency issues. upvoted 4 times

😑 🌲 farnamjam 5 months, 2 weeks ago

Selected Answer: B

Fast Snapshot Restore (FSR)
Force full initialization of snapshot to have no latency on the first use upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: B

"Fast snapshot restore" = pre-warmed snapshot AMI from such a snapshot is pre-warmed AMI upvoted 2 times

😑 💄 master9 5 months, 2 weeks ago

Selected Answer: D

Amazon Data Lifecycle Manager (DLM) is a feature of Amazon EBS that automates the creation, retention, and deletion of snapshots, which are used to back up your Amazon EBS volumes. With DLM, you can protect your data by implementing a backup strategy that aligns with your business requirements.

You can create lifecycle policies to automate snapshot management. Each policy includes a schedule of when to create snapshots, a retention rule with a defined period to retain each snapshot, and a set of Amazon EBS volumes to assign to the policy.

This service helps simplify the management of your backups, ensure compliance, and reduce costs. upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

We're not asked to "simplify the management of our backups, ensure compliance, and reduce costs", we're asked to "provide minimum initialization latency" for an auto-scaling group.

upvoted 1 times

😑 💄 master9 5 months, 2 weeks ago

Sorry, its "C" and not "D" upvoted 1 times

😑 💄 Nisarg2121 5 months, 3 weeks ago

Selected Answer: B b is correct upvoted 1 times

😑 💄 meowruki 6 months, 2 weeks ago

B. Enable Amazon Elastic Block Store (Amazon EBS) fast snapshot restore on a snapshot. Provision an AMI by using the snapshot. Replace the AMI in the Auto Scaling group with the new AMI.

Here's the reasoning:

Amazon EBS Fast Snapshot Restore: This feature allows you to quickly create new EBS volumes (and subsequently AMIs) from snapshots. Fast Snapshot Restore optimizes the initialization process by pre-warming the snapshots, reducing the time it takes to create volumes from those snapshots.

Provision an AMI using the snapshot: By using fast snapshot restore, you can efficiently provision an AMI from the pre-warmed snapshot, minimizing the initialization latency.

Replace the AMI in the Auto Scaling group: This allows you to update the instances in the Auto Scaling group with the new AMI efficiently, ensuring that the new instances are launched with minimal delay. upvoted 1 times

😑 💄 meowruki 6 months, 2 weeks ago

Option A (Use aws ec2 register-image command and AWS Step Functions): While this approach can be used to automate the creation of an AN and update the Auto Scaling group, it may not offer the same level of optimization for initialization latency as Amazon EBS fast snapshot restore.

Option C (Enable AMI creation and define lifecycle rules in Amazon Data Lifecycle Manager, create a Lambda function): While Amazon DLM car help manage the lifecycle of your AMIs, it might not provide the same level of speed and responsiveness needed for sudden increases in demand.

Option D (Use Amazon EventBridge and AWS Backup): AWS Backup is primarily designed for backup and recovery, and it might not be as optimized for quickly provisioning instances in response to sudden demand spikes. EventBridge can be used for event-driven architectures, but in this context, it might introduce unnecessary complexity. upvoted 1 times

😑 🌲 TariqKipkemei 8 months ago

Selected Answer: B

Enable Amazon Elastic Block Store (Amazon EBS) fast snapshot restore on a snapshot. Provision an AMI by using the snapshot. Replace the AMI in the Auto Scaling group with the new AMI upvoted 1 times

😑 💄 kambarami 8 months, 3 weeks ago

Pleaw3 reword 5he question. Can not understand a thing! upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: B

Enable EBS fast snapshot restore on a snapshot Create an AMI from the snapshot Replace the AMI used by the Auto Scaling group with this new AMI

The key points:

° Need to launch large EC2 instances quickly from an AMI in an Auto Scaling group ° Looking to minimize instance initialization latency

upvoted 2 times

😑 💄 antropaws 1 year ago

Selected Answer: B

B most def

upvoted 1 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: B

B: "EBS fast snapshot restore": minimizes initialization latency. This is a good choice. upvoted 2 times

😑 👗 Zox42 1 year, 2 months ago

Selected Answer: B

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-fast-snapshot-restore.html upvoted 2 times

😑 💄 geekgirl22 1 year, 3 months ago

Keyword, minimize initilization latency == snapshot. A and B have snapshots in them, but B is the one that makes sense. C has DLP that can create machines from AMI, but that does not talk about latency and snapshots. upvoted 3 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: B

Enabling Amazon Elastic Block Store (Amazon EBS) fast snapshot restore on a snapshot allows for rapid restoration of EBS volumes from snapshots. This reduces the time required to create an AMI from a snapshot, which is useful for quickly provisioning large Amazon EC2 instances.

Provisioning an AMI by using the fast snapshot restore feature is a fast and efficient way to create an AMI. Once the AMI is created, it can be replaced in the Auto Scaling group without any downtime or disruption to running instances.

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: B

Enabling Amazon Elastic Block Store (Amazon EBS) fast snapshot restore on a snapshot allows you to quickly create a new Amazon Machine Image (AMI) from a snapshot, which can help reduce the initialization latency when provisioning new instances. Once the AMI is provisioned, you can replace the AMI in the Auto Scaling group with the new AMI. This will ensure that new instances are launched from the updated AMI and are able to the increased demand quickly.

upvoted 1 times

What should a solutions architect do to meet this requirement with the LEAST operational effort?

A. Create a new AWS Key Management Service (AWS KMS) encryption key. Use AWS Secrets Manager to create a new secret that uses the KMS key with the appropriate credentials. Associate the secret with the Aurora DB cluster. Configure a custom rotation period of 14 days.

B. Create two parameters in AWS Systems Manager Parameter Store: one for the user name as a string parameter and one that uses the SecureString type for the password. Select AWS Key Management Service (AWS KMS) encryption for the password parameter, and load these parameters in the application tier. Implement an AWS Lambda function that rotates the password every 14 days.

C. Store a file that contains the credentials in an AWS Key Management Service (AWS KMS) encrypted Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system in all EC2 instances of the application tier. Restrict the access to the file on the file system so that the application can read the file and that only super users can modify the file. Implement an AWS Lambda function that rotates the key in Aurora every 14 days and writes new credentials into the file.

D. Store a file that contains the credentials in an AWS Key Management Service (AWS KMS) encrypted Amazon S3 bucket that the application uses to load the credentials. Download the file to the application regularly to ensure that the correct credentials are used. Implement an AWS Lambda function that rotates the Aurora credentials every 14 days and uploads these credentials to the file in the S3 bucket.

Correct Answer: A

Community vote distribution

A (100%)

😑 🌡 TariqKipkemei 8 months ago

Selected Answer: A

Create a new AWS Key Management Service (AWS KMS) encryption key. Use AWS Secrets Manager to create a new secret that uses the KMS key with the appropriate credentials. Associate the secret with the Aurora DB cluster. Configure a custom rotation period of 14 days upvoted 2 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

Use AWS Secrets Manager to store the Aurora credentials as a secret Encrypt the secret with a KMS key Configure 14 day automatic rotation for the secret Associate the secret with the Aurora DB cluster The key points:

Aurora MySQL credentials must be encrypted and rotated every 14 days Want to minimize operational effort upvoted 2 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: A

AWS Secrets Manager allows you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle. With this service, you can automate the rotation of secrets, such as database credentials, on a schedule that you choose. The solution allows you to create a new secret with the appropriate credentials and associate it with the Aurora DB cluster. You can then configure a custom rotation period c 14 days to ensure that the credentials are automatically rotated every two weeks, as required by the IT security guidelines. This approach requires the least amount of operational effort as it allows you to manage secrets centrally without modifying your application code or infrastructure. upvoted 4 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: A

A: AWS Secrets Manager. Simply this supported rotate feature, and secure to store credentials instead of EFS or S3. upvoted 1 times

😑 🌲 Steve_4542636 1 year, 3 months ago

Selected Answer: A

Voting A upvoted 1 times

😑 🌲 LuckyAro 1 year, 3 months ago

Selected Answer: A

A proposes to create a new AWS KMS encryption key and use AWS Secrets Manager to create a new secret that uses the KMS key with the appropriate credentials. Then, the secret will be associated with the Aurora DB cluster, and a custom rotation period of 14 days will be configured. AWS Secrets Manager will automate the process of rotating the database credentials, which will reduce the operational effort required to meet the IT security guidelines.

upvoted 1 times

😑 💄 jennyka76 1 year, 3 months ago

Answer is A

To implement password rotation lifecycles, use AWS Secrets Manager. You can rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle using Secrets Manager.

https://aws.amazon.com/blogs/security/how-to-use-aws-secrets-manager-rotate-credentials-amazon-rds-database-types-oracle/ upvoted 4 times

😑 💄 Neha999 1 year, 3 months ago

А

https://www.examtopics.com/discussions/amazon/view/59985-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 1 times

A company has deployed a web application on AWS. The company hosts the backend database on Amazon RDS for MySQL with a primary DB instance and five read replicas to support scaling needs. The read replicas must lag no more than 1 second behind the primary DB instance. The database routinely runs scheduled stored procedures.

As traffic on the website increases, the replicas experience additional lag during periods of peak load. A solutions architect must reduce the replication lag as much as possible. The solutions architect must minimize changes to the application code and must minimize ongoing operational overhead.

Which solution will meet these requirements?

A. Migrate the database to Amazon Aurora MySQL. Replace the read replicas with Aurora Replicas, and configure Aurora Auto Scaling. Replace the stored procedures with Aurora MySQL native functions.

B. Deploy an Amazon ElastiCache for Redis cluster in front of the database. Modify the application to check the cache before the application queries the database. Replace the stored procedures with AWS Lambda functions.

C. Migrate the database to a MySQL database that runs on Amazon EC2 instances. Choose large, compute optimized EC2 instances for all replica nodes. Maintain the stored procedures on the EC2 instances.

D. Migrate the database to Amazon DynamoDB. Provision a large number of read capacity units (RCUs) to support the required throughput, and configure on-demand capacity scaling. Replace the stored procedures with DynamoDB streams.

Correct Answer: A	
Community vote distribution	
A (86%)	14%
😑 🖀 fkie4 (Highly Voted 🔹) 1 year, 3 months ago	
i hate this kind of question	
upvoted 54 times	
😑 🛔 asoli (Highly Voted 📹) 1 year, 2 months ago	
Selected Answer: A	
	pplication. Several things need to change to use cache in front of the DB in the application. So, optic
B is not correct.	
Aurora will help to reduce replication lag for upvoted 11 times	read replica
😑 🛔 sheilawu (Most Recent 🕗 1 day, 8 hours ago	
Selected Answer: A	
You need to read the question carefully.	
The solutions architect must minimize chang If this question without this statement, B will	
upvoted 1 times	be a better choice.
😑 💄 JackyCCK 2 months, 1 week ago	
minimize ongoing operational overhead = N	Jot B

Using ElastiCache require app change

upvoted 2 times

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: A

AWS Aurora and Native Functions are least application changes while providing better performance and minimum latency. https://aws.amazon.com/rds/aurora/faqs/

B, C, D require lots of changes to the application so relatively speaking A is least code change and least maintenance/operational overhead. upvoted 7 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: A

A: Minimal changes to the application code, < 1 second lag

B: Does not address the replication lag issue at all, requires code changes and adds overhead

C: Moving from managed RDS to self-managed database on EC2 is ADDING, not minimizing, overhead, PLUS it does not address the replication la issue

D: DynamoDB is a NoSQL DB, would require MASSIVE changes to application code and probably even application logic

upvoted 3 times

😑 🌲 Murtadhaceit 6 months, 1 week ago

Selected Answer: A

imho, B is not valid because it involves extra coding and the question specifically mentions no more coding. Therefore, replacing the current db with another one is not considered as more coding. upvoted 2 times

😑 🌡 warav 8 months ago

I was able to approach my Amazon Web Services SAA-C03 exam with confidence thanks to Marks4sure.com's exam dumps. They were comprehensive and helped me identify areas where I needed to improve. upvoted 1 times

😑 🌲 🗛 AAAWrekng 7 months, 3 weeks ago

LOL, "I'm not advertising my own product here, HONEST!!" upvoted 5 times

😑 💄 TariqKipkemei 8 months ago

Selected Answer: A

Migrate the database to Amazon Aurora MySQL. Replace the read replicas with Aurora Replicas, and configure Aurora Auto Scaling. Replace the stored procedures with Aurora MySQL native functions

upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

Migrate the RDS MySQL database to Amazon Aurora MySQL Use Aurora Replicas for read scaling instead of RDS read replicas Configure Aurora Auto Scaling to handle load spikes Replace stored procedures with Aurora MySQL native functions upvoted 1 times

😑 🌲 MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: A

First, Elasticache involves heavy change on application code. The question mentioned that "he solutions architect must minimize changes to the application code". Therefore B is not suitable and A is more appropriate for the question requirement. upvoted 2 times

😑 🌲 aaroncelestin 9 months, 3 weeks ago

... but migrating their ENTIRE prod database and its replicas to a new platform is not a heavy change? upvoted 3 times

😑 🌲 KMohsoe 1 year ago

Selected Answer: B

Why not B? Please explain to me. upvoted 2 times

😑 💄 Terion 8 months, 2 weeks ago

It wouldn't have the most up to date info since it must no lag in relation to the main DB upvoted 1 times

E **A pentium75** 5 months, 2 weeks ago

How would adding a cache "reduce the replication lag" between the primary instance and the read replicas? Plus, it would require "changes to the application code" that we want to avoid. The "AWS Lambda functions" would create "ongoing operational overhead" that we're also asked to avoid.

upvoted 1 times

😑 💄 kaushald 1 year, 3 months ago

Option A is the most appropriate solution for reducing replication lag without significant changes to the application code and minimizing ongoing operational overhead. Migrating the database to Amazon Aurora MySQL allows for improved replication performance and higher scalability compared to Amazon RDS for MySQL. Aurora Replicas provide faster replication, reducing the replication lag, and Aurora Auto Scaling ensures tha there are enough Aurora Replicas to handle the incoming traffic. Additionally, Aurora MySQL native functions can replace the stored procedures, reducing the load on the database and improving performance.

Option B is not the best solution since adding an ElastiCache for Redis cluster does not address the replication lag issue, and the cache may not have the most up-to-date information. Additionally, replacing the stored procedures with AWS Lambda functions adds additional complexity and may not improve performance.

upvoted 4 times

😑 👗 njufi 2 months, 3 weeks ago

I agree with your explanation. Additionally, considering the requirement that "the read replicas must lag no more than 1 second behind the primary DB instance," it's crucial to ensure that Elasticache for Redis also maintains this tight synchronization window. This implies that the mair RDS instance would need to synchronize an additional database, potentially exacerbating lag during peak times rather than alleviating it. upvoted 1 times

😑 🌲 [Removed] 1 year, 3 months ago

Selected Answer: B

a,b are confusing me.. i would like to go with b.. upvoted 1 times

😑 💄 bangfire 1 year, 3 months ago

Option B is incorrect because it suggests using ElastiCache for Redis as a caching layer in front of the database, but this would not necessarily reduce the replication lag on the read replicas. Additionally, it suggests replacing the stored procedures with AWS Lambda functions, which may require significant changes to the application code.

upvoted 5 times

😑 🌲 lizzard812 1 year, 2 months ago

Yes and moreover Redis requires app refactoring which is a solid operational overhead upvoted 1 times

😑 🏝 Nel8 1 year, 3 months ago

Selected Answer: B

By using ElastiCache you avoid a lot of common issues you might encounter. ElastiCache is a database caching solution. ElastiCache Redis per se, supports failover and Multi-AZ. And Most of all, ElastiCache is well suited to place in front of RDS.

Migrating a database such as option A, requires operational overhead.

upvoted 2 times

😑 💄 pentium75 5 months, 2 weeks ago

Database migration is one-time work, NOT "operational overhead". Plus, RDS for MySQL to Aurora with MySQL compatibility is not a big deal, and "minimizes changes to the application code" as requested.

upvoted 1 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: A

Aurora can have up to 15 read replicas - much faster than RDS https://aws.amazon.com/rds/aurora/ upvoted 4 times

😑 💄 ChrisG1454 1 year, 3 months ago

" As a result, all Aurora Replicas return the same data for query results with minimal replica lag. This lag is usually much less than 100 milliseconds after the primary instance has written an update "

Reference:

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Replication.html upvoted 2 times

😑 🌲 ChrisG1454 1 year, 3 months ago

You can invoke an Amazon Lambda function from an Amazon Aurora MySQL-Compatible Edition DB cluster with the "native function"....

https://docs.amazonaws.cn/en_us/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Integrating.Lambda.html upvoted 1 times

😑 💄 jennyka76 1 year, 3 months ago

Answer - A

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_PostgreSQL.Replication.ReadReplicas.html

You can scale reads for your Amazon RDS for PostgreSQL DB instance by adding read replicas to the instance. As with other Amazon RDS database engines, RDS for PostgreSQL uses the native replication mechanisms of PostgreSQL to keep read replicas up to date with changes on the source DB. For general information about read replicas and Amazon RDS, see Working with read replicas.

upvoted 3 times

The DR plan must replicate data to a secondary AWS Region.

Which solution will meet these requirements MOST cost-effectively?

A. Use MySQL binary log replication to an Aurora cluster in the secondary Region. Provision one DB instance for the Aurora cluster in the secondary Region.

B. Set up an Aurora global database for the DB cluster. When setup is complete, remove the DB instance from the secondary Region.

C. Use AWS Database Migration Service (AWS DMS) to continuously replicate data to an Aurora cluster in the secondary Region. Remove the DB instance from the secondary Region.

D. Set up an Aurora global database for the DB cluster. Specify a minimum of one DB instance in the secondary Region.

Correct Answer: D				
Community vote distribution B (52%)	D (35%)	7%		

😑 🌲 awsgeek75 (Highly Voted 🖬) 5 months, 1 week ago

Selected Answer: B

I originally went for D but now I think B is correct. D is active-active cluster so whereas B is active-passive (headless cluster) so it is cheaper than D.

https://aws.amazon.com/blogs/database/achieve-cost-effective-multi-region-resiliency-with-amazon-aurora-global-database-headless-clusters/ upvoted 12 times

😑 👗 jennyka76 (Highly Voted 🖬) 1 year, 3 months ago

Answer - A

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Replication.CrossRegion.html

Before you begin

Before you can create an Aurora MySQL DB cluster that is a cross-Region read replica, you must turn on binary logging on your source Aurora MySQL DB cluster. Cross-region replication for Aurora MySQL uses MySQL binary replication to replay changes on the cross-Region read replica D cluster.

upvoted 8 times

😑 🌲 ChrisG1454 1 year, 3 months ago

The question states " The DR plan must replicate data to a "secondary" AWS Region."

In addition to Aurora Replicas, you have the following options for replication with Aurora MySQL:

Aurora MySQL DB clusters in different AWS Regions.

You can replicate data across multiple Regions by using an Aurora global database. For details, see High availability across AWS Regions with Aurora global databases

You can create an Aurora read replica of an Aurora MySQL DB cluster in a different AWS Region, by using MySQL binary log (binlog) replication Each cluster can have up to five read replicas created this way, each in a different Region.

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Replication.html upvoted 1 times

😑 🌲 ChrisG1454 1 year, 3 months ago

The question is asking for the most cost-effective solution. Aurora global databases are more expensive.

https://aws.amazon.com/rds/aurora/pricing/ upvoted 1 times

😑 💄 leoattf 1 year, 3 months ago

On this same URL you provided, there is a note highlighted, stating the following:

"Replication from the primary DB cluster to all secondaries is handled by the Aurora storage layer rather than by the database engine, so lag time for replicating changes is minimal—typically, less than 1 second. Keeping the database engine out of the replication process means that the database engine is dedicated to processing workloads. It also means that you don't need to configure or manage the Aurora MySQL binlog (binary logging) replication."

So, answer should be A upvoted 2 times

😑 💄 leoattf 1 year, 3 months ago

Correction: So, answer should be D upvoted 3 times

😑 👗 theamachine (Most Recent 🕐) 17 hours, 8 minutes ago

Selected Answer: B

Aurora Global Databases offer a cost-effective way to replicate data to a secondary region for disaster recovery. By removing the secondary DB instance after setup, you only pay for storage and minimal compute resources. upvoted 1 times

😑 💄 thewalker 4 months, 4 weeks ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-global-database.html#aurora-global-database.advantages upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Wrong, while D will work, B is cheaper. This question is about DR, not cross region scaling upvoted 1 times

😑 💄 upliftinghut 5 months ago

Selected Answer: D

B is more cost-effective however because this is DR so when the region fails => still need a DB to fail over and if setting up a DB from snapshot at the time of failure will be risky => D is the answer upvoted 3 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: B

"Achieve cost-effective multi-Region resiliency with Amazon Aurora Global Database headless clusters" is exactly the topic here. "A headless secondary Amazon Aurora database cluster is one without a database instance. This type of configuration can lower expenses for an Aurora global database."

https://aws.amazon.com/blogs/database/achieve-cost-effective-multi-region-resiliency-with-amazon-aurora-global-database-headless-clusters/ upvoted 5 times

😑 🌲 minagaboya 7 months ago

shd be D i guess ... Migrating the database to Amazon Aurora MySQL allows for improved replication performance and higher scalability compared to Amazon RDS for MySQL. Aurora Replicas provide faster replication, reducing the replication lag, and Aurora Auto Scaling ensures tha there are enough Aurora Replicas to handle the incoming traffic. Additionally, Aurora MySQL native functions can replace the stored procedures, reducing the load on the database and improving performance.

Option B is not the best solution since adding an ElastiCache for Redis cluster does not address the replication lag issue, and the cache may not have the most up-to-date information. Additionally, replacing the stored procedures with AWS Lambda functions adds additional complexity and may not improve performance.

upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

This is about a different question upvoted 3 times

😑 🌲 TariqKipkemei 8 months ago

Selected Answer: D

Set up an Aurora global database for the DB cluster. Specify a minimum of one DB instance in the secondary Region upvoted 1 times

😑 💄 vini15 10 months, 3 weeks ago

should be B for most cost effective solution.

see the link - Achieve cost-effective multi-Region resiliency with Amazon Aurora Global Database headless clusters https://aws.amazon.com/blogs/database/achieve-cost-effective-multi-region-resiliency-with-amazon-aurora-global-database-headless-clusters/ upvoted 1 times

😑 💄 luisgu 1 year ago

Selected Answer: B

MOST cost-effective --> B

See section "Creating a headless Aurora DB cluster in a secondary Region" on the link

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Replication.html

"Although an Aurora global database requires at least one secondary Aurora DB cluster in a different AWS Region than the primary, you can use a headless configuration for the secondary cluster. A headless secondary Aurora DB cluster is one without a DB instance. This type of configuration can lower expenses for an Aurora global database. In an Aurora DB cluster, compute and storage are decoupled. Without the DB instance, you're not charged for compute, only for storage. If it's set up correctly, a headless secondary's storage volume is kept in-sync with the primary Aurora DI cluster."

upvoted 6 times

😑 💄 bsbs1234 8 months, 3 weeks ago

upvoted your message, but still think D is correct. Because the question is to design a DR plan. In case of DR, B need to create an instance in DR region manually.

upvoted 2 times

😑 🌲 Abhineet9148232 1 year, 3 months ago

Selected Answer: D

D: With Amazon Aurora Global Database, you pay for replicated write I/Os between the primary Region and each secondary Region (in this case 1)

Not A because it achieves the same, would be equally costly and adds overhead. upvoted 3 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: C CCCCCC upvoted 3 times

😑 👗 Steve_4542636 1 year, 3 months ago

Selected Answer: D

I think Amazon is looking for D here. I don' think A is intended because that would require knowledge of MySQL, which isn't what they are testing us on. Not option C because the question states large volume. If the volume were low, then DMS would be better. This question is not a good question.

upvoted 3 times

😑 🌲 fkie4 1 year, 3 months ago

very true. Amazon wanna everyone to use AWS, why do they sell for MySQL? upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: D

D provides automatic replication upvoted 3 times

😑 💄 LuckyAro 1 year, 3 months ago

D provides automatic replication to a secondary Region through the Aurora global database feature. This feature provides automatic replication of data across AWS Regions, with the ability to control and configure the replication process. By specifying a minimum of one DB instance in the secondary Region, you can ensure that your secondary database is always available and up-to-date, allowing for quick failover in the event of a disaster.

upvoted 3 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: D

Actually I change my answer to 'D' because of following:

An Aurora DB cluster can contain up to 15 Aurora Replicas. The Aurora Replicas can be distributed across the Availability Zones that a DB cluster spans WITHIN an AWS Region.

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Replication.htmhttps://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Replication.html

You can replicate data across multiple Regions by using an Aurora global database

upvoted 1 times

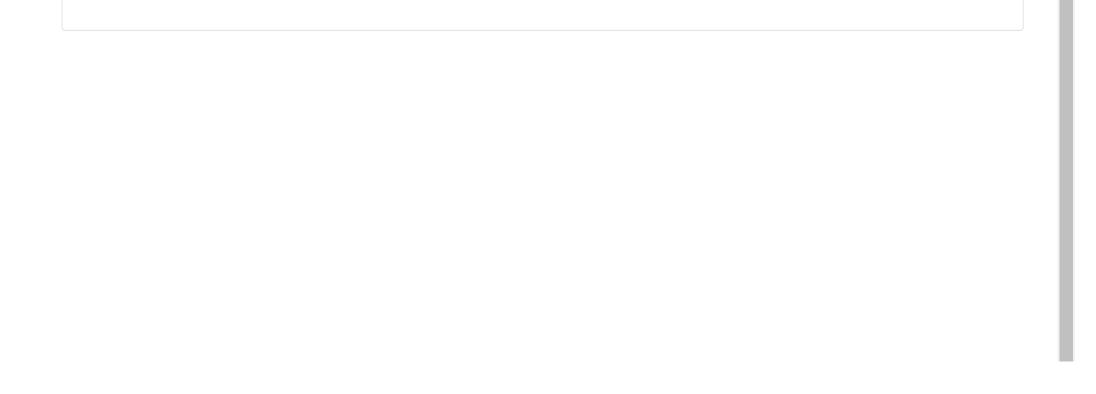
😑 💄 bdp123 1 year, 3 months ago

Selected Answer: A

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Replication.MySQL.html Global database is for specific versions they did not tell us the version

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-global-database.html

upvoted 1 times



A company has a custom application with embedded credentials that retrieves information from an Amazon RDS MySQL DB instance. Management says the application must be made more secure with the least amount of programming effort.

What should a solutions architect do to meet these requirements?

A. Use AWS Key Management Service (AWS KMS) to create keys. Configure the application to load the database credentials from AWS KMS. Enable automatic key rotation.

B. Create credentials on the RDS for MySQL database for the application user and store the credentials in AWS Secrets Manager. Configure the application to load the database credentials from Secrets Manager. Create an AWS Lambda function that rotates the credentials in Secret Manager. Manager.

C. Create credentials on the RDS for MySQL database for the application user and store the credentials in AWS Secrets Manager. Configure the application to load the database credentials from Secrets Manager. Set up a credentials rotation schedule for the application user in the RDS for MySQL database using Secrets Manager.

D. Create credentials on the RDS for MySQL database for the application user and store the credentials in AWS Systems Manager Parameter Store. Configure the application to load the database credentials from Parameter Store. Set up a credentials rotation schedule for the application user in the RDS for MySQL database using Parameter Store.

Correct Answer: D

Community vote distribution

C (100%)

😑 👗 cloudbusting (Highly Voted 🖬) 1 year, 3 months ago

Parameter Store does not provide automatic credential rotation. upvoted 13 times

😑 👗 Bhawesh (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C

C. Create credentials on the RDS for MySQL database for the application user and store the credentials in AWS Secrets Manager. Configure the application to load the database credentials from Secrets Manager. Set up a credentials rotation schedule for the application user in the RDS for MySQL database using Secrets Manager.

https://www.examtopics.com/discussions/amazon/view/46483-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 10 times

😑 👗 d401c0d (Most Recent 🕐) 2 months, 2 weeks ago

question is asking for "more secure with the least amount of programming effort." = Secrets Manager + Secretes Manager's built in rotation schedule instead of Lambda.

upvoted 1 times

□ ▲ awsgeek75 5 months, 1 week ago

Selected Answer: C

A KMS is for encryption keys specifically so this is a long way of doing the credentials storage

B is too much work for rotation

C exactly what secrets manager is designed for

D You can do that if C wasn't an option

upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: C

Store the RDS credentials in Secrets Manager Configure the application to retrieve the credentials from Secrets Manager Use Secrets Manager's built-in rotation to rotate the RDS credentials automatically upvoted 1 times

😑 🌲 Hades2231 9 months, 2 weeks ago

Selected Answer: C

Secrets Manager can handle the rotation, so no need for Lambda to rotate the keys. upvoted 1 times

😑 🌲 chen0305_099 9 months, 3 weeks ago

WHY NOT B?

upvoted 1 times

😑 🌲 StacyY 10 months ago

B, we need lambda for password rotation, confirmed! upvoted 2 times

😑 💄 Nikki013 9 months, 2 weeks ago

It is not needed for certain types RDS, including MySQL as Secrets Manager has built-in rotation capabilities for it: https://aws.amazon.com/blogs/security/rotate-amazon-rds-database-credentials-automatically-with-aws-secrets-manager/ upvoted 2 times

😑 🌡 Abrar2022 1 year ago

Selected Answer: C

If you need your DB to store credentials then use AWS Secret Manager. System Manager Paramater Store is for CloudFormation (no rotation) upvoted 1 times

😑 🆀 AlessandraSAA 1 year, 3 months ago

why it's not A? upvoted 4 times

😑 💄 MssP 1 year, 2 months ago

It is asking for credentials, not for encryption keys. upvoted 6 times

😑 💄 PoisonBlack 1 year, 1 month ago

So credentials rotation is secrets manager and key rotation is KMS? upvoted 2 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: C

https://aws.amazon.com/blogs/security/rotate-amazon-rds-database-credentials-automatically-with-aws-secrets-manager/ upvoted 1 times

😑 📥 LuckyAro 1 year, 3 months ago

Selected Answer: C

C is a valid solution for securing the custom application with the least amount of programming effort. It involves creating credentials on the RDS for MySQL database for the application user and storing them in AWS Secrets Manager. The application can then be configured to load the database credentials from Secrets Manager. Additionally, the solution includes setting up a credentials rotation schedule for the application user ir the RDS for MySQL database using Secrets Manager, which will automatically rotate the credentials at a specified interval without requiring any programming effort.

upvoted 3 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: C

https://docs.aws.amazon.com/secretsmanager/latest/userguide/create_database_secret.html upvoted 2 times

😑 上 jennyka76 1 year, 3 months ago

Answer - C

https://ws.amazon.com/blogs/security/rotate-amazon-rds-database-credentials-automatically-with-aws-secrets-manager/ upvoted 3 times

A media company hosts its website on AWS. The website application's architecture includes a fleet of Amazon EC2 instances behind an Application Load Balancer (ALB) and a database that is hosted on Amazon Aurora. The company's cybersecurity team reports that the application is vulnerable to SQL injection.

How should the company resolve this issue?

- A. Use AWS WAF in front of the ALB. Associate the appropriate web ACLs with AWS WAF.
- B. Create an ALB listener rule to reply to SQL injections with a fixed response.
- C. Subscribe to AWS Shield Advanced to block all SQL injection attempts automatically.
- D. Set up Amazon Inspector to block all SQL injection attempts automatically.

Correct Answer: C

Community vote distribution

A (100%)

😑 🖀 Bhawesh (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

A. Use AWS WAF in front of the ALB. Associate the appropriate web ACLs with AWS WAF.

SQL Injection - AWS WAF DDoS - AWS Shield upvoted 21 times

😑 👗 jennyka76 (Highly Voted 🖬) 1 year, 3 months ago

Answer - A

https://aws.amazon.com/premiumsupport/knowledge-center/waf-block-common-

attacks/#:~:text=To%20protect%20your%20applications%20against,%2C%20query%20string%2C%20or%20URI.

Protect against SQL injection and cross-site scripting

To protect your applications against SQL injection and cross-site scripting (XSS) attacks, use the built-in SQL injection and cross-site scripting engines. Remember that attacks can be performed on different parts of the HTTP request, such as the HTTP header, query string, or URI. Configure the AWS WAF rules to inspect different parts of the HTTP request against the built-in mitigation engines.

upvoted 7 times

😑 🌡 wsdasdasdqwdaw [Most Recent 🕗] 7 months, 4 weeks ago

AWS WAF - for SQL Injection ---> A

AWS Shield - for DDOS Amazon Inspector - for automated security assessment, like known vulnerability upvoted 2 times

🖃 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

- ° Use AWS WAF in front of the Application Load Balancer
- ° Configure appropriate WAF web ACLs to detect and block SQL injection patterns The key points:
- ° Website hosted on EC2 behind an ALB with Aurora database
- ° Application is vulnerable to SQL injection attacks

° AWS WAF is designed to detect and block SQL injection and other common web exploits. It can be placed in front of the ALB to inspect all incoming requests. WAF rules can identify malicious SQL patterns and block them. upvoted 1 times

😑 🎩 KMohsoe 1 year ago

Selected Answer: A

SQL injection -> WAF upvoted 1 times

😑 💄 lexotan 1 year, 1 month ago

Selected Answer: A

WAF is the right one upvoted 1 times

😑 🌡 akram_akram 1 year, 2 months ago

Selected Answer: A

SQL Injection - AWS WAF DDoS - AWS Shield upvoted 1 times

😑 💄 movva12 1 year, 2 months ago

Answer C - Shield Advanced (WAF + Firewall Manager) upvoted 1 times

😑 🏝 fkie4 1 year, 3 months ago

Selected Answer: A

It is A. I am happy to see Amazon gives out score like this... upvoted 2 times

😑 🌲 LuckyAro 1 year, 3 months ago

Selected Answer: A

AWS WAF is a managed service that protects web applications from common web exploits that could affect application availability, compromise security, or consume excessive resources. AWS WAF enables customers to create custom rules that block common attack patterns, such as SQL injection attacks.

By using AWS WAF in front of the ALB and associating the appropriate web ACLs with AWS WAF, the company can protect its website application from SQL injection attacks. AWS WAF will inspect incoming traffic to the website application and block requests that match the defined SQL injection patterns in the web ACLs. This will help to prevent SQL injection attacks from reaching the application, thereby improving the overall security posture of the application.

upvoted 2 times

😑 💄 LuckyAro 1 year, 3 months ago

- B, C, and D are not the best solutions for this issue. Replying to SQL injections with a fixed response
- (B) is not a recommended approach as it does not actually fix the vulnerability, but only masks the issue. Subscribing to AWS Shield Advanced
- (C) is useful to protect against DDoS attacks but does not protect against SQL injection vulnerabilities. Amazon Inspector
- (D) is a vulnerability assessment tool and can identify vulnerabilities but cannot block attacks in real-time.

upvoted 2 times

😑 🌲 pbpally 1 year, 3 months ago

Selected Answer: A

Bhawesh answers it perfect so I'm avoiding redundancy but agree on it being A. upvoted 2 times

A company has an Amazon S3 data lake that is governed by AWS Lake Formation. The company wants to create a visualization in Amazon QuickSight by joining the data in the data lake with operational data that is stored in an Amazon Aurora MySQL database. The company wants to enforce column-level authorization so that the company's marketing team can access only a subset of columns in the database.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use Amazon EMR to ingest the data directly from the database to the QuickSight SPICE engine. Include only the required columns.

B. Use AWS Glue Studio to ingest the data from the database to the S3 data lake. Attach an IAM policy to the QuickSight users to enforce column-level access control. Use Amazon S3 as the data source in QuickSight.

C. Use AWS Glue Elastic Views to create a materialized view for the database in Amazon S3. Create an S3 bucket policy to enforce columnlevel access control for the QuickSight users. Use Amazon S3 as the data source in QuickSight.

D. Use a Lake Formation blueprint to ingest the data from the database to the S3 data lake. Use Lake Formation to enforce column-level access control for the QuickSight users. Use Amazon Athena as the data source in QuickSight.

Correct Answer: C

Community vote distribution

😑 👗 KOnAn (Highly Voted 🖬) 1 year, 3 months ago

D (100%)

Selected Answer: D

This solution leverages AWS Lake Formation to ingest data from the Aurora MySQL database into the S3 data lake, while enforcing column-level access control for QuickSight users. Lake Formation can be used to create and manage the data lake's metadata and enforce security and governance policies, including column-level access control. This solution then uses Amazon Athena as the data source in QuickSight to query the data in the S3 data lake. This solution minimizes operational overhead by leveraging AWS services to manage and secure the data, and by using a standard query service (Amazon Athena) to provide a SQL interface to the data.

upvoted 12 times

😑 🌲 jennyka76 (Highly Voted 🖬) 1 year, 3 months ago

Answer - D

https://aws.amazon.com/blogs/big-data/enforce-column-level-authorization-with-amazon-quicksight-and-aws-lake-formation/ upvoted 8 times

😑 👗 awsgeek75 Most Recent 🕑 4 months, 3 weeks ago

Selected Answer: D

https://docs.aws.amazon.com/lake-formation/latest/dg/workflows-about.html upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: D

Use a Lake Formation blueprint to ingest data from the Aurora database into the S3 data lake Leverage Lake Formation to enforce column-level access control for the marketing team Use Amazon Athena as the data source in QuickSight The key points:

Need to join S3 data lake data with Aurora MySQL data Require column-level access controls for marketing team in QuickSight

Minimize operational overhead upvoted 3 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: D

Using a Lake Formation blueprint to ingest the data from the database to the S3 data lake, using Lake Formation to enforce column-level access control for the QuickSight users, and using Amazon Athena as the data source in QuickSight. This solution requires the least operational overhead as it utilizes the features provided by AWS Lake Formation to enforce column-level authorization, which simplifies the process and reduces the need for additional configuration and maintenance.

upvoted 4 times

😑 🌡 Bhawesh 1 year, 3 months ago

Selected Answer: D

D. Use a Lake Formation blueprint to ingest the data from the database to the S3 data lake. Use Lake Formation to enforce column-level access control for the QuickSight users. Use Amazon Athena as the data source in QuickSight.

https://www.examtopics.com/discussions/amazon/view/80865-exam-aws-certified-solutions-architect-associate-saa-c02/

upvoted 2 times

Question #342

A transaction processing company has weekly scripted batch jobs that run on Amazon EC2 instances. The EC2 instances are in an Auto Scaling group. The number of transactions can vary, but the baseline CPU utilization that is noted on each run is at least 60%. The company needs to provision the capacity 30 minutes before the jobs run.

Currently, engineers complete this task by manually modifying the Auto Scaling group parameters. The company does not have the resources to analyze the required capacity trends for the Auto Scaling group counts. The company needs an automated way to modify the Auto Scaling group's desired capacity.

Which solution will meet these requirements with the LEAST operational overhead?

A. Create a dynamic scaling policy for the Auto Scaling group. Configure the policy to scale based on the CPU utilization metric. Set the target value for the metric to 60%.

B. Create a scheduled scaling policy for the Auto Scaling group. Set the appropriate desired capacity, minimum capacity, and maximum capacity. Set the recurrence to weekly. Set the start time to 30 minutes before the batch jobs run.

C. Create a predictive scaling policy for the Auto Scaling group. Configure the policy to scale based on forecast. Set the scaling metric to CPU utilization. Set the target value for the metric to 60%. In the policy, set the instances to pre-launch 30 minutes before the jobs run.

D. Create an Amazon EventBridge event to invoke an AWS Lambda function when the CPU utilization metric value for the Auto Scaling group reaches 60%. Configure the Lambda function to increase the Auto Scaling group's desired capacity and maximum capacity by 20%.

Correct Answer: C		
Community vote distribution C (63%)	B (34%)	4%

😑 🌲 fkie4 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C

B is NOT correct. the question said "The company does not have the resources to analyze the required capacity trends for the Auto Scaling group counts.".

answer B said "Set the appropriate desired capacity, minimum capacity, and maximum capacity". how can someone set desired capacity if he has no resources to analyze the required capacity. Read carefully Amigo

upvoted 16 times

😑 📥 omoakin 1 year ago

scheduled scaling.... upvoted 3 times

😑 🌲 jjcode 3 months, 3 weeks ago

works loads can vary, how can you predict something that is random? upvoted 1 times

😑 🌲 ealpuche 1 year, 1 month ago

But you can make a vague estimation according to the resources used; you don't need to make machine learning models to do that. You only need common sense.

upvoted 1 times

😑 🌲 Murtadhaceit 6 months, 1 week ago

Your explanation is contradicting your answer. Since "the company does not have the resources to analyze the required capacity trend for the ASG", how come they can create and ASG based on a historic trend? C doesn't make sense for me.

upvoted 3 times

😑 👗 neverdie (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: B

A scheduled scaling policy allows you to set up specific times for your Auto Scaling group to scale out or scale in. By creating a scheduled scaling policy for the Auto Scaling group, you can set the appropriate desired capacity, minimum capacity, and maximum capacity, and set the recurrence to weekly. You can then set the start time to 30 minutes before the batch jobs run, ensuring that the required capacity is provisioned before the jobs run.

Option C, creating a predictive scaling policy for the Auto Scaling group, is not necessary in this scenario since the company does not have the resources to analyze the required capacity trends for the Auto Scaling group counts. This would require analyzing the required capacity trends for the Auto Scaling policy. upvoted 5 times

😑 🌲 [Removed] 1 year, 2 months ago

(typo above) C is correct.. upvoted 1 times

😑 🌡 MssP 1 year, 2 months ago

Look at fkie4 comment... no way to know desired capacity!!! -> B not correct upvoted 1 times

😑 💄 Lalo 1 year ago

the text says

1.-"A transaction processing company has weekly scripted batch jobs", there is a Schedule

2.-" The company does not have the resources to analyze the required capacity trends for the Auto Scaling " Do not use the answer is B

upvoted 2 times

😑 👗 [Removed] 1 year, 2 months ago

B is correct. "Predictive scaling uses machine learning to predict capacity requirements based on historical data from CloudWatch.", meaning th company does not have to analyze the capacity trends themselves. https://docs.aws.amazon.com/autoscaling/ec2/userguide/ec2-auto-scaling-predictive-scaling.html

upvoted 2 times

😑 👗 Hkayne Most Recent 🕑 1 month, 1 week ago

Selected Answer: C

B or C.

I think C because the company needs an automated way to modify the autoscaling desired capacity upvoted 1 times

😑 💄 jjcode 3 months, 3 weeks ago

How does C works with : transactions can vary, clearly C is designed for workloads that are predictable, if the transactions can vary then predictive scaling will not work. The only one that will work is scheduled since its based on time not workload intensity. upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: C

C per https://docs.aws.amazon.com/autoscaling/ec2/userguide/predictive-scaling-create-policy.html.

B is out because it wants the company to 'set the desired/minimum/maximum capacity' but "the company does not have the resources to analyze the required capacity".

upvoted 4 times

😑 🌲 Cyberkayu 5 months, 4 weeks ago

Lambda did not appear to take over scripting/batch job, what a surprise upvoted 2 times

😑 💄 daniel1 7 months, 3 weeks ago

Selected Answer: B

From GPT4:

mong the provided options, creating a scheduled scaling policy (Option B) is the most direct and efficient way to ensure that the necessary capacit is provisioned 30 minutes before the weekly batch jobs run, with the least operational overhead. Here's a breakdown of Option B:

B. Create a scheduled scaling policy for the Auto Scaling group. Set the appropriate desired capacity, minimum capacity, and maximum capacity. Set the recurrence to weekly. Set the start time to 30 minutes before the batch jobs run.

Scheduled scaling allows you to change the desired capacity of your Auto Scaling group based on a schedule. In this case, setting the recurrence to weekly and adjusting the start time to 30 minutes before the batch jobs run will ensure that the necessary capacity is available when needed, without requiring manual intervention.

upvoted 5 times

😑 🌲 TheFivePips 3 months, 2 weeks ago

yeah chatgpt told me this, so maybe dont take its word as gospel:

Upon reviewing the question again, it appears that the requirements emphasize the need to provision capacity 30 minutes before the batch jobs run and the company's constraint of not having resources to analyze capacity trends. In this context, the most suitable solution is C.

Predictive Scaling can use historical data to forecast future capacity needs.

Configuring the policy to scale based on CPU utilization with a target value of 60% aligns with the baseline CPU utilization mentioned in the scenario.

Setting instances to pre-launch 30 minutes before the jobs run provides the desired capacity just in time.

upvoted 1 times

😑 🏝 TariqKipkemei 8 months ago

Selected Answer: C

Predictive scaling: increases the number of EC2 instances in your Auto Scaling group in advance of daily and weekly patterns in traffic flows. If you have regular patterns of traffic increases use predictive scaling, to help you scale faster by launching capacity in advance of forecasted load. You don't have to spend time reviewing your application's load patterns and trying to schedule the right amount of capacity using scheduled scaling. Predictive scaling uses machine learning to predict capacity requirements based on historical data from CloudWatch. The machine learning

algorithm consumes the available historical data and calculates capacity that best fits the historical load pattern, and then continuously learns based on new data to make future forecasts more accurate.

upvoted 1 times

😑 💄 bsbs1234 8 months, 3 weeks ago

should be C. Question does not say how long the job will run. don't know when to set the end time in the schedule policy. upvoted 1 times

E & MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: C C is correct! upvoted 1 times

😑 🌲 Abrar2022 1 year ago

Selected Answer: C

if the baseline CPU utilization is 60%, then that's enough information needed to determaine you to predict some aspect of the usage in the future. So key word "predictive" judging by past usage.

upvoted 1 times

😑 👗 omoakin 1 year ago

upvoted 1 times

😑 🌲 ealpuche 1 year, 1 month ago

Selected Answer: B

Β.

you can make a vague estimation according to the resources used; you don't need to make machine-learning models to do that. You only need common sense.

upvoted 3 times

😑 L kruasan 1 year, 1 month ago

Selected Answer: C

Use predictive scaling to increase the number of EC2 instances in your Auto Scaling group in advance of daily and weekly patterns in traffic flows.

Predictive scaling is well suited for situations where you have:

Cyclical traffic, such as high use of resources during regular business hours and low use of resources during evenings and weekends

Recurring on-and-off workload patterns, such as batch processing, testing, or periodic data analysis

Applications that take a long time to initialize, causing a noticeable latency impact on application performance during scale-out events https://docs.aws.amazon.com/autoscaling/ec2/userguide/ec2-auto-scaling-predictive-scaling.html upvoted 1 times

😑 👗 MLCL 1 year, 2 months ago

Selected Answer: C

The second part of the question invalidates option B, they don't know how to procure requirements and need something to do it for them, therefore C.

upvoted 1 times

😑 📥 asoli 1 year, 2 months ago

Selected Answer: C

In general, if you have regular patterns of traffic increases and applications that take a long time to initialize, you should consider using predictive scaling. Predictive scaling can help you scale faster by launching capacity in advance of forecasted load, compared to using only dynamic scaling, which is reactive in nature.

upvoted 2 times

😑 💄 Wherecanistart 1 year, 2 months ago

Selected Answer: C

https://docs.aws.amazon.com/autoscaling/ec2/userguide/ec2-auto-scaling-predictive-scaling.html upvoted 3 times

A solutions architect is designing a company's disaster recovery (DR) architecture. The company has a MySQL database that runs on an Amazon EC2 instance in a private subnet with scheduled backup. The DR design needs to include multiple AWS Regions.

Which solution will meet these requirements with the LEAST operational overhead?

A. Migrate the MySQL database to multiple EC2 instances. Configure a standby EC2 instance in the DR Region. Turn on replication.

B. Migrate the MySQL database to Amazon RDS. Use a Multi-AZ deployment. Turn on read replication for the primary DB instance in the different Availability Zones.

C. Migrate the MySQL database to an Amazon Aurora global database. Host the primary DB cluster in the primary Region. Host the secondary DB cluster in the DR Region.

D. Store the scheduled backup of the MySQL database in an Amazon S3 bucket that is configured for S3 Cross-Region Replication (CRR). Use the data backup to restore the database in the DR Region.

Correct Answer: *B*

Community vote distribution

C (100%)

😑 👗 AlessandraSAA (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C

- A. Multiple EC2 instances to be configured and updated manually in case of DR.
- B. Amazon RDS=Multi-AZ while it asks to be multi-region
- C. correct, see comment from LuckyAro
- D. Manual process to start the DR, therefore same limitation as answer A
- upvoted 8 times

😑 👗 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

C: Migrate MySQL database to an Amazon Aurora global database is the best solution because it requires minimal operational overhead. Aurora is a managed service that provides automatic failover, so standby instances do not need to be manually configured. The primary DB cluster can be hosted in the primary Region, and the secondary DB cluster can be hosted in the DR Region. This approach ensures that the data is always availabl and up-to-date in multiple Regions, without requiring significant manual intervention.

upvoted 7 times

😑 🌲 gulmichamagaun5 (Most Recent 🕐) 5 months, 2 weeks ago

hello friends, question required: The DR design needs to include multiple AWS Regions, but the correct answer is B, how it comes, because the DR here is on AZ not Different Region so the i would go with D

upvoted 1 times

😑 🌡 TariqKipkemei 8 months ago

Selected Answer: C

LEAST operational overhead = Serverless = Amazon Aurora global database upvoted 1 times

😑 🌢 Guru4Cloud 9 months, 1 week ago

Selected Answer: C

Amazon Aurora global database can span and replicate DB Servers between multiple AWS Regions. And also compatible with MySQL. upvoted 1 times

😑 🌲 GalileoEC2 1 year, 2 months ago

C, Why B? B is multi zone in one region, C is multi region as it was requested upvoted 1 times

😑 🌡 lucdt4 1 year ago

" The DR design needs to include multiple AWS Regions." with the requirement "DR SITE multiple AWS region" -> B is wrong, because it deploy multy AZ (this is not multi region) upvoted 1 times

😑 👗 KZM 1 year, 3 months ago

Amazon Aurora global database can span and replicate DB Servers between multiple AWS Regions. And also compatible with MySQL. upvoted 3 times

😑 🏝 LuckyAro 1 year, 3 months ago

With dynamic scaling, the Auto Scaling group will automatically adjust the number of instances based on the actual workload. The target value for the CPU utilization metric is set to 60%, which is the baseline CPU utilization that is noted on each run, indicating that this is a reasonable level of

utilization for the workload. This solution does not require any scheduling or forecasting, reducing the operational overhead. upvoted 1 times

😑 💄 LuckyAro 1 year, 3 months ago

Sorry, Posted right answer to the wrong question, mistakenly clicked the next question, sorry. upvoted 4 times

😑 💄 geekgirl22 1 year, 3 months ago

C is the answer as RDS is only multi-zone not multi region. upvoted 1 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: C

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Replication.html upvoted 1 times

😑 🌲 SMAZ 1 year, 3 months ago

С

option A has operation overhead whereas option C not. upvoted 1 times

😑 🌲 alexman 1 year, 3 months ago

Selected Answer: C

C mentions multiple regions. Option B is within the same region upvoted 3 times

😑 🏝 jennyka76 1 year, 3 months ago

ANSWER - B ?? NOT SURE upvoted 1 times

A company has a Java application that uses Amazon Simple Queue Service (Amazon SQS) to parse messages. The application cannot parse messages that are larger than 256 KB in size. The company wants to implement a solution to give the application the ability to parse messages as large as 50 MB.

Which solution will meet these requirements with the FEWEST changes to the code?

A. Use the Amazon SQS Extended Client Library for Java to host messages that are larger than 256 KB in Amazon S3.

B. Use Amazon EventBridge to post large messages from the application instead of Amazon SQS.

C. Change the limit in Amazon SQS to handle messages that are larger than 256 KB.

D. Store messages that are larger than 256 KB in Amazon Elastic File System (Amazon EFS). Configure Amazon SQS to reference this location in the messages.

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

A. Use the Amazon SQS Extended Client Library for Java to host messages that are larger than 256 KB in Amazon S3.

Amazon SQS has a limit of 256 KB for the size of messages. To handle messages larger than 256 KB, the Amazon SQS Extended Client Library for Java can be used. This library allows messages larger than 256 KB to be stored in Amazon S3 and provides a way to retrieve and process them. Using this solution, the application code can remain largely unchanged while still being able to process messages up to 50 MB in size.

😑 💄 Neha999 (Highly Voted 🖬 1 year, 3 months ago

А

For messages > 256 KB, use Amazon SQS Extended Client Library for Java https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/quotas-messages.html upvoted 6 times

😑 👗 TariqKipkemei (Most Recent 🕗) 8 months ago

Selected Answer: A

The Amazon SQS Extended Client Library for Java enables you to manage Amazon SQS message payloads with Amazon S3. This is especially usefu for storing and retrieving messages with a message payload size greater than the current SQS limit of 256 KB, up to a maximum of 2 GB. upvoted 3 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: A

The SQS Extended Client Library enables storing large payloads in S3 while referenced via SQS. The application code can stay almost entirely unchanged - it sends/receives SQS messages normally. The library handles transparently routing the large payloads to S3 behind the scenes upvoted 1 times

🖃 🌲 james2033 11 months ago

Selected Answer: A

Quote "The Amazon SQS Extended Client Library for Java enables you to manage Amazon SQS message payloads with Amazon S3." and "An

extension to the Amazon SQS client that enables sending and receiving messages up to 2GB via Amazon S3." at https://github.com/awslabs/amazon-sqs-java-extended-client-lib upvoted 1 times

😑 🏝 Abrar2022 1 year ago

Selected Answer: A

Amazon SQS has a limit of 256 KB for the size of messages.

To handle messages larger than 256 KB, the Amazon SQS Extended Client Library for Java can be used. upvoted 1 times

😑 💄 gold4otas 1 year, 2 months ago

The Amazon SQS Extended Client Library for Java enables you to publish messages that are greater than the current SQS limit of 256 KB, up to a maximum of 2 GB.

https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-s3-messages.html upvoted 1 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: A

https://github.com/awslabs/amazon-sqs-java-extended-client-lib upvoted 3 times

😑 💄 Arathore 1 year, 3 months ago

Selected Answer: A

To send messages larger than 256 KiB, you can use the Amazon SQS Extended Client Library for Java. This library allows you to send an Amazon SQS message that contains a reference to a message payload in Amazon S3. The maximum payload size is 2 GB.

upvoted 4 times

A company wants to restrict access to the content of one of its main web applications and to protect the content by using authorization techniques available on AWS. The company wants to implement a serverless architecture and an authentication solution for fewer than 100 users. The solution needs to integrate with the main web application and serve web content globally. The solution must also scale as the company's user base grows while providing the lowest login latency possible.

Which solution will meet these requirements MOST cost-effectively?

A. Use Amazon Cognito for authentication. Use Lambda@Edge for authorization. Use Amazon CloudFront to serve the web application globally.

B. Use AWS Directory Service for Microsoft Active Directory for authentication. Use AWS Lambda for authorization. Use an Application Load Balancer to serve the web application globally.

C. Use Amazon Cognito for authentication. Use AWS Lambda for authorization. Use Amazon S3 Transfer Acceleration to serve the web application globally.

D. Use AWS Directory Service for Microsoft Active Directory for authentication. Use Lambda@Edge for authorization. Use AWS Elastic Beanstalk to serve the web application globally.

Correct Answer: A

Community vote distribution

A (100%)

😑 💄 Lonojack (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

CloudFront=globally Lambda@edge = Authorization/ Latency Cognito=Authentication for Web apps upvoted 13 times

😑 💄 Lin878 [Most Recent 🕑] 4 days, 7 hours ago

Selected Answer: A

https://aws.amazon.com/blogs/networking-and-content-delivery/external-server-authorization-with-lambdaedge/ upvoted 1 times

🖃 💄 Cyberkayu 5 months, 4 weeks ago

fewer than 100 users but scattered around the globe, lowest latency.

Should have do nothing, most cost effective. upvoted 2 times

😑 🆀 TariqKipkemei 8 months ago

Selected Answer: A

Use Amazon Cognito for authentication. Use Lambda@Edge for authorization. Use Amazon CloudFront to serve the web application globally upvoted 2 times

E & Guru4Cloud 9 months, 1 week ago

Selected Answer: A

Amazon Cognito is a serverless authentication service that can be used to easily add user sign-up and authentication to web and mobile apps. It is a good choice for this scenario because it is scalable and can handle a small number of users without any additional costs.

Lambda@Edge is a serverless compute service that can be used to run code at the edge of the AWS network. It is a good choice for this scenario because it can be used to perform authorization checks at the edge, which can improve the login latency.

Amazon CloudFront is a content delivery network (CDN) that can be used to serve web content globally. It is a good choice for this scenario because it can cache web content closer to users, which can improve the performance of the web application. upvoted 3 times

😑 🏝 antropaws 1 year ago

Selected Answer: A

A is perfect.

upvoted 1 times

🖃 🎍 kraken21 1 year, 2 months ago

Selected Answer: A

Lambda@Edge for authorization

https://aws.amazon.com/blogs/networking-and-content-delivery/adding-http-security-headers-using-lambdaedge-and-amazon-cloudfront/upvoted 2 times

😑 💄 LuckyAro 1 year, 3 months ago

Selected Answer: A

Amazon CloudFront is a global content delivery network (CDN) service that can securely deliver web content, videos, and APIs at scale. It integrate: with Cognito for authentication and with Lambda@Edge for authorization, making it an ideal choice for serving web content globally.

Lambda@Edge is a service that lets you run AWS Lambda functions globally closer to users, providing lower latency and faster response times. It can also handle authorization logic at the edge to secure content in CloudFront. For this scenario, Lambda@Edge can provide authorization for the web application while leveraging the low-latency benefit of running at the edge. upvoted 2 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: A

CloudFront to serve globally upvoted 1 times

😑 🌲 SMAZ 1 year, 3 months ago

А

Amazon Cognito for authentication and Lambda@Edge for authorizatioN, Amazon CloudFront to serve the web application globally provides lowlatency content delivery

upvoted 3 times

Question #346

A company has an aging network-attached storage (NAS) array in its data center. The NAS array presents SMB shares and NFS shares to client workstations. The company does not want to purchase a new NAS array. The company also does not want to incur the cost of renewing the NAS array's support contract. Some of the data is accessed frequently, but much of the data is inactive.

A solutions architect needs to implement a solution that migrates the data to Amazon S3, uses S3 Lifecycle policies, and maintains the same look and feel for the client workstations. The solutions architect has identified AWS Storage Gateway as part of the solution.

Which type of storage gateway should the solutions architect provision to meet these requirements?

- A. Volume Gateway
- B. Tape Gateway
- C. Amazon FSx File Gateway
- D. Amazon S3 File Gateway

Correct Answer: C

Community vote distribution

😑 💄 LuckyAro (Highly Voted 🖬) 1 year, 3 months ago

D (100%)

Selected Answer: D

Amazon S3 File Gateway provides on-premises applications with access to virtually unlimited cloud storage using NFS and SMB file interfaces. It seamlessly moves frequently accessed data to a low-latency cache while storing colder data in Amazon S3, using S3 Lifecycle policies to transition data between storage classes over time.

In this case, the company's aging NAS array can be replaced with an Amazon S3 File Gateway that presents the same NFS and SMB shares to the client workstations. The data can then be migrated to Amazon S3 and managed using S3 Lifecycle policies upvoted 14 times

😑 🏝 everfly (Highly Voted 🐽) 1 year, 3 months ago

Selected Answer: D

Amazon S3 File Gateway provides a file interface to objects stored in S3. It can be used for a file-based interface with S3, which allows the company to migrate their NAS array data to S3 while maintaining the same look and feel for client workstations. Amazon S3 File Gateway supports SMB and NFS protocols, which will allow clients to continue to access the data using these protocols. Additionally, Amazon S3 Lifecycle policies can be used to automate the movement of data to lower-cost storage tiers, reducing the storage cost of inactive data.

upvoted 5 times

😑 💄 pentium75 [Most Recent 🕑] 5 months, 2 weeks ago

Selected Answer: D

- A provides virtual disk via iSCSI
- B provides virtual tape via iSCSI
- C provides access to FSx via SMB

upvoted 1 times

😑 🎍 TarigKipkemei 8 months ago

Selected Answer: D

The Amazon S3 File Gateway enables you to store and retrieve objects in Amazon Simple Storage Service (S3) using file protocols such as Networl File System (NFS) and Server Message Block (SMB).

upvoted 3 times

Guru4Cloud 9 months, 1 week ago

Selected Answer: D

It provides an easy way to lift-and-shift file data from the existing NAS to Amazon S3. The S3 File Gateway presents SMB and NFS file shares that client workstations can access just like the NAS shares.

Behind the scenes, it moves the file data to S3 storage, storing it durably and cost-effectively.

S3 Lifecycle policies can be used to transition less frequently accessed data to lower-cost S3 storage tiers like S3 Glacier.

From the client workstation perspective, access to files feels seamless and unchanged after migration to S3. The S3 File Gateway handles the underlying data transfers.

It is a simple, low-cost gateway option tailored for basic file share migration use cases.

upvoted 3 times

😑 🎍 james2033 11 months ago

Selected Answer: D

- Volume Gateway: https://aws.amazon.com/storagegateway/volume/ (Remove A, related iSCSI)
- Tape Gateway https://aws.amazon.com/storagegateway/vtl/ (Remove B)
- Amazon FSx File Gateway https://aws.amazon.com/storagegateway/file/fsx/ (C)
- Why not choose C? Because need working with Amazon S3. (Answer D, and it is correct answer) https://aws.amazon.com/storagegateway/file/s3, upvoted 3 times

😑 💄 siyam008 1 year, 3 months ago

Selected Answer: D

https://aws.amazon.com/blogs/storage/how-to-create-smb-file-shares-with-aws-storage-gateway-using-hyper-v/ upvoted 2 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: D

https://aws.amazon.com/about-aws/whats-new/2018/06/aws-storage-gateway-adds-smb-support-to-store-objects-in-amazon-s3/ upvoted 3 times

Question #347

A company has an application that is running on Amazon EC2 instances. A solutions architect has standardized the company on a particular instance family and various instance sizes based on the current needs of the company.

The company wants to maximize cost savings for the application over the next 3 years. The company needs to be able to change the instance family and sizes in the next 6 months based on application popularity and usage.

Which solution will meet these requirements MOST cost-effectively?

- A. Compute Savings Plan
- B. EC2 Instance Savings Plan
- C. Zonal Reserved Instances
- D. Standard Reserved Instances

Correct Answer: D

Community vote distribution

A (78%)

B (20%)

😑 👗 AlmeroSenior (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

Read Carefully guys , They need to be able to change FAMILY , and although EC2 Savings has a higher discount , its clearly documented as not allowed >

EC2 Instance Savings Plans provide savings up to 72 percent off On-Demand, in exchange for a commitment to a specific instance family in a chosen AWS Region (for example, M5 in Virginia). These plans automatically apply to usage regardless of size (for example, m5.xlarge, m5.2xlarge, etc.), OS (for example, Windows, Linux, etc.), and tenancy (Host, Dedicated, Default) within the specified family in a Region. upvoted 18 times

😑 🌲 FFO 1 year, 1 month ago

Savings Plans are a flexible pricing model that offer low prices on Amazon EC2, AWS Lambda, and AWS Fargate usage, in exchange for a commitment to a consistent amount of usage (measured in \$/hour) for a 1 or 3 year term. When you sign up for a Savings Plan, you will be charged the discounted Savings Plans price for your usage up to your commitment.

The company wants savings over the next 3 years but wants to change the instance type in 6 months. This invalidates A upvoted 4 times

😑 🌲 FFO 1 year, 1 month ago

Disregard! found more information:

We recommend Savings Plans (over Reserved Instances). Like Reserved Instances, Savings Plans offer lower prices (up to 72% savings compared to On-Demand Instance pricing). In addition, Savings Plans offer you the flexibility to change your usage as your needs evolve. Fo example, with Compute Savings Plans, lower prices will automatically apply when you change from C4 to C6g instances, shift a workload from EU (Ireland) to EU (London), or move a workload from Amazon EC2 to AWS Fargate or AWS Lambda. https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/

upvoted 2 times

😑 🎍 awsgeek75 (Highly Voted 🖬) 4 months, 3 weeks ago

Selected Answer: A

https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-reservation-models/savings-plans.html

Compute Savings Plans provide the most flexibility and help to reduce your costs by up to 66% (just like Convertible RIs). These plans automaticall apply to EC2 instance usage regardless of instance family...

EC2 Instance Savings Plans provide the lowest prices, offering savings up to 72% (just like Standard RIs) in exchange for commitment to usage of individual instance families

Instance Savings "locks" you in that instance family which is not desired by the company hence A is the best plan as they can change the instance family anytime upvoted 7 times

□ **awsgeek75** 4 months, 3 weeks ago

Also, don't forget, the minimum commitment for both of these plans is 1 year and the company wants the ability to change in 6 months so it has to be a plan which allows changing of instance within the commitment window (no refunds!) upvoted 3 times

😑 🌲 xBUGx (Most Recent 🕗) 2 months, 1 week ago

Selected Answer: A

EC2 Instance Savings Plans provide the lowest prices, offering savings up to 72% in exchange for commitment to usage of individual instance families in a region (e.g. M5 usage in N. Virginia). This automatically reduces your cost on the selected instance family in that region regardless of AZ, size, OS or tenancy. ***EC2 Instance Savings Plans give you the flexibility to change your usage between instances within a family in that region.*** For example, you can move from c5.xlarge running Windows to c5.2xlarge running Linux and automatically benefit from the Savings Plans prices.

https://aws.amazon.com/savingsplans/faq/#:~:text=EC2%20Instance%20Savings%20Plans%20give,from%20the%20Savings%20Plans%20prices. upvoted 3 times

⊟ ▲ Mican07 5 months ago

B is the definite answer upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: A

B does not allow changing the instance family, despite all the ChatGPT-based answers claiming the opposite upvoted 2 times

😑 🌲 meowruki 6 months, 2 weeks ago

Selected Answer: A

While EC2 Instance Savings Plans also provide cost savings over On-Demand pricing, they offer less flexibility in terms of changing instance families. They provide a discount in excha

upvoted 1 times

😑 💄 hungta 6 months, 3 weeks ago

Selected Answer: B

EC2 Instance Savings Plans is most saving. And it is enough for required flexibility

EC2 Instance Savings Plans provide the lowest prices, offering savings up to 72% (just like Standard RIs) in exchange for commitment to usage of individual instance families in a Region (for example, M5 usage in N. Virginia). This automatically reduces your cost on the selected instance family in that region regardless of AZ, size, operating system, or tenancy. EC2 Instance Savings Plans give you the flexibility to change your usage betwee instances within a family in that Region. For example, you can move from c5.xlarge running Windows to c5.2xlarge running Linux and automatically benefit from the Savings Plans prices.

upvoted 1 times

😑 💄 Jazz888 1 week, 4 days ago

You voted against yourself. Did you mean to vote A? upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

But it does not allow changing the instance family, which is a requirement here. upvoted 2 times

😑 💄 dilaaziz 6 months, 4 weeks ago

Selected Answer: A

https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-reservation-models/savings-plans.html upvoted 1 times

😑 🌲 EdenWang 7 months ago

Selected Answer: B

The most cost-effective solution that meets the company's requirements would be B. EC2 Instance Savings Plan.

EC2 Instance Savings Plans provide significant cost savings, allowing the company to commit to a consistent amount of usage (measured in \$/hou for a 1- or 3-year term, and in return, receive a discount on the hourly rate for the instances that match the attributes of the plan.

With EC2 Instance Savings Plans, the company can benefit from the flexibility to change the instance family and sizes over the next 3 years, which aligns with their requirement to adjust based on application popularity and usage.

This option provides the best balance of cost savings and flexibility, making it the most suitable choice for the company's needs. upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

"With EC2 Instance Savings Plans, the company can benefit from the flexibility to change the instance family" NO, this is simply wrong. Is this from ChatGPT?

"EC2 Instance Savings Plans provide savings up to 72 percent off On-Demand, in exchange for a commitment to a specific instance family (!) in chosen AWS Region ... With an EC2 Instance Savings Plan, you can change your instance size within the instance family (!)".

https://docs.aws.amazon.com/savingsplans/latest/userguide/what-is-savings-plans.html upvoted 3 times

😑 💄 TariqKipkemei 8 months ago

Selected Answer: A

Change instance family = Compute Savings Plans upvoted 3 times

😑 🌲 Wayne23Fang 9 months, 1 week ago

Selected Answer: A

D is not right. D. Standard Reserved Instances. should be Convertible Reserved Instances if you need additional flexibility, such as the ability to use different instance families, operating systems.

upvoted 2 times

😑 👗 Guru4Cloud 9 months, 1 week ago

Selected Answer: B

The key factors are:

Need to maximize cost savings over 3 years Ability to change instance family and sizes in 6 months Standardized on a particular instance family for now upvoted 2 times

😑 💄 awsgeek75 4 months, 3 weeks ago

"Ability to change instance family and sizes in 6 months" is not allowed in Instance Savings plan so B is wrong upvoted 1 times

E & Kiki_Pass 10 months, 2 weeks ago

Why not C? Can do with Convertible Reserved Instance https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/reserved-instances-types.html upvoted 1 times

😑 👗 ITV2021 10 months, 4 weeks ago

Selected Answer: A

https://aws.amazon.com/savingsplans/compute-pricing/ upvoted 1 times

😑 💄 Mia2009687 11 months, 1 week ago

Selected Answer: A

EC2 Instance Savings Plan cannot change the family. https://docs.aws.amazon.com/savingsplans/latest/userguide/what-is-savings-plans.html upvoted 1 times

😑 🎩 mattel 11 months, 4 weeks ago

Anser D: You can use Standard Reserved Instances when you know that you need a specific instance type. upvoted 1 times

😑 🆀 kruasan 1 year, 1 month ago

Selected Answer: A

Savings Plans offer a flexible pricing model that provides savings on AWS usage. You can save up to 72 percent on your AWS compute workloads. Compute Savings Plans provide lower prices on Amazon EC2 instance usage regardless of instance family, size, OS, tenancy, or AWS Region. This also applies to AWS Fargate and AWS Lambda usage. SageMaker Savings Plans provide you with lower prices for your Amazon SageMaker instance usage, regardless of your instance family, size, component, or AWS Region.

https://docs.aws.amazon.com/savingsplans/latest/userguide/what-is-savings-plans.html

upvoted 2 times

😑 🆀 kruasan 1 year, 1 month ago

With an EC2 Instance Savings Plan, you can change your instance size within the instance family (for example, from c5.xlarge to c5.2xlarge) or the operating system (for example, from Windows to Linux), or move from Dedicated tenancy to Default and continue to receive the discounted rate provided by your EC2 Instance Savings Plan.

https://docs.aws.amazon.com/savingsplans/latest/userguide/what-is-savings-plans.html

upvoted 1 times

😑 L kruasan 1 year, 1 month ago

The company needs to be able to change the instance family and sizes in the next 6 months based on application popularity and usage. Therefore EC2 Instance Savings Plan prerequisites are not fulfilled

upvoted 2 times

A company collects data from a large number of participants who use wearable devices. The company stores the data in an Amazon DynamoDB table and uses applications to analyze the data. The data workload is constant and predictable. The company wants to stay at or below its forecasted budget for DynamoDB.

Which solution will meet these requirements MOST cost-effectively?

A. Use provisioned mode and DynamoDB Standard-Infrequent Access (DynamoDB Standard-IA). Reserve capacity for the forecasted workload.

B. Use provisioned mode. Specify the read capacity units (RCUs) and write capacity units (WCUs).

C. Use on-demand mode. Set the read capacity units (RCUs) and write capacity units (WCUs) high enough to accommodate changes in the workload.

D. Use on-demand mode. Specify the read capacity units (RCUs) and write capacity units (WCUs) with reserved capacity.

Correct Answer: A	
Community vote distribution	
B (86%)	14%
🗆 🆀 everfly (Highly Voted 🛥) 1 year, 3 months a	
	ayo
Selected Answer: B	listable
The data workload is constant and pred upvoted 7 times	ictable.
upvoted 7 times	
🗦 💄 pentium75 🛛 Most Recent 🕗 5 months ago	
Selected Answer: B	
C and D are impossible because you do	n't set or specify RCUs and WCUs in on-demand mode.
A is wrong because there is no indicatio	on of "infrequent access", and "the data workload is constant", there is no different between the current
the "forecasted" workload.	
upvoted 1 times	
🗆 🐣 hovnival 7 months, 1 week ago	
Selected Answer: B	
	acity Units(RCU)/Write Capacity Units(WCU) in on-demand mode.
upvoted 4 times	acty onits(Reo), write capacity onits(weo) in on demand mode.
🖯 💄 wsdasdasdqwdaw 7 months, 4 weeks a	go
predictable/constant => provisioned me minute to minute.	ode. On-demand mode is more suitable for workloads that are unpredictable and can vary widely from
The use case is not for Standard-IA whic	ch is described here: https://aws.amazon.com/dynamodb/standard-ia/

=> Option B upvoted 3 times

😑 🏝 TariqKipkemei 8 months ago

Selected Answer: B

I rule out A because of this 'Standard-Infrequent Access ', clearly the company uses applications to analyze the data. The data workload is constant and predictable making provisioned mode the best option.

upvoted 1 times

Guru4Cloud 9 months, 1 week ago

Selected Answer: A

Option B lacks the cost benefits of Standard-IA.

Option C uses more expensive on-demand pricing.

Option D does not actually allow reserving capacity with on-demand mode.

So option A leverages provisioned mode, Standard-IA, and reserved capacity to meet the requirements in a cost-optimal way. upvoted 1 times

□ ▲ MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: A

A is correct!

upvoted 1 times

😑 🌲 MrAWSAssociate 11 months, 3 weeks ago

Sorry, A will not work, since Reserved Capacity can only be used with DynamoDB Standard table class. So, B is right for this case. upvoted 2 times

😑 🌡 UNGMAN 1 year, 2 months ago

Selected Answer: B

예측가능.. upvoted 4 times

😑 💄 kayodea25 1 year, 3 months ago

Option C is the most cost-effective solution for this scenario. In on-demand mode, DynamoDB automatically scales up or down based on the current workload, so the company only pays for the capacity it uses. By setting the RCUs and WCUs high enough to accommodate changes in the workload, the company can ensure that it always has the necessary capacity without overprovisioning and incurring unnecessary costs. Since the workload is constant and predictable, using provisioned mode with reserved capacity (Options A and D) may result in paying for unused capacity during periods of low demand. Option B, using provisioned mode without reserved capacity, may result in throttling during periods of high demand if the provisioned capacity is not sufficient to handle the workload.

upvoted 3 times

😑 🌲 Bofi 1 year, 2 months ago

Kayode olode..lol upvoted 1 times

😑 🌲 boxu03 1 year, 3 months ago

you forgot "The data workload is constant and predictable", should be B upvoted 2 times

😑 🌲 pentium75 5 months ago

You can't 'set RCUs and WCUs' in on-demand mode. upvoted 1 times

😑 👗 Steve_4542636 1 year, 3 months ago

"The data workload is constant and predictable." https://docs.aws.amazon.com/wellarchitected/latest/serverless-applications-lens/capacity.html

"With provisioned capacity you pay for the provision of read and write capacity units for your DynamoDB tables. Whereas with DynamoDB ondemand you pay per request for the data reads and writes that your application performs on your tables." upvoted 1 times

😑 💄 Charly0710 1 year, 3 months ago

Selected Answer: B

The data workload is constant and predictable, then, isn't on-demand mode. DynamoDB Standard-IA is not necessary in this context upvoted 1 times

😑 💄 Lonojack 1 year, 3 months ago

Selected Answer: B

The problem with (A) is: "Standard-Infrequent Access". In the question, they say the company has to analyze the Data. That's why the Correct answer is (B) upvoted 3 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: A

workload is constant upvoted 2 times

😑 💄 Lonojack 1 year, 3 months ago

The problem with (A) is: "Standard-Infrequent Access". In the question, they say the company has to analyze the Data. Correct answer is (B) upvoted 3 times

😑 👗 Samuel03 1 year, 3 months ago

Selected Answer: B

As the numbers are already known upvoted 3 times

A company stores confidential data in an Amazon Aurora PostgreSQL database in the ap-southeast-3 Region. The database is encrypted with an AWS Key Management Service (AWS KMS) customer managed key. The company was recently acquired and must securely share a backup of the database with the acquiring company's AWS account in ap-southeast-3.

What should a solutions architect do to meet these requirements?

A. Create a database snapshot. Copy the snapshot to a new unencrypted snapshot. Share the new snapshot with the acquiring company's AWS account.

B. Create a database snapshot. Add the acquiring company's AWS account to the KMS key policy. Share the snapshot with the acquiring company's AWS account.

C. Create a database snapshot that uses a different AWS managed KMS key. Add the acquiring company's AWS account to the KMS key alias. Share the snapshot with the acquiring company's AWS account.

D. Create a database snapshot. Download the database snapshot. Upload the database snapshot to an Amazon S3 bucket. Update the S3 bucket policy to allow access from the acquiring company's AWS account.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 Abrar2022 (Highly Voted 🖝) 1 year ago

Selected Answer: B

A. - "So let me get this straight, with the current company the data is protected and encrypted. However, for the acquiring company the data is unencrypted? How is that fair?"

C - Wouldn't recommended this option because using a different AWS managed KMS key will not allow the acquiring company's AWS account to access the encrypted data.

D. - Don't risk it for a biscuit and get fired!!!! - by downloading the database snapshot and uploading it to an Amazon S3 bucket. This will increase the risk of data leakage or loss of confidentiality during the transfer process.

B - CORRECT

upvoted 13 times

😑 🌲 njufi Most Recent 🕑 2 months, 3 weeks ago

I believe the reason why option C is not the correct answer is that adding the acquiring company's AWS account to the KMS key alias doesn't directly control access to the encrypted data. KMS key aliases are simply alternative names for KMS keys and do not affect access control. Access to encrypted data is goverened by KMS key policies, which define who can use the key for encryption and decryption. upvoted 1 times

😑 💄 TariqKipkemei 8 months ago

Selected Answer: B

Create a database snapshot. Add the acquiring company's AWS account to the KMS key policy. Share the snapshot with the acquiring company's AWS account.

upvoted 1 times

😑 💄 Vuuu 10 months, 2 weeks ago

Selected Answer: B

B. Create a database snapshot. Add the acquiring company's AWS account to the KMS key policy. Share the snapshot with the acquiring company' AWS account. Most Voted

upvoted 1 times

😑 💄 Abrar2022 1 year ago

Create a database snapshot of the encrypted. Add the acquiring company's AWS account to the KMS key policy. Share the snapshot with the acquiring company's AWS account.

upvoted 1 times

😑 💄 SkyZeroZx 1 year, 1 month ago

Selected Answer: B

To securely share a backup of the database with the acquiring company's AWS account in the same Region, a solutions architect should create a database snapshot, add the acquiring company's AWS account to the AWS KMS key policy, and share the snapshot with the acquiring company's AWS account.

Option A, creating an unencrypted snapshot, is not recommended as it will compromise the confidentiality of the data. Option C, creating a

snapshot that uses a different AWS managed KMS key, does not provide any additional security and will unnecessarily complicate the solution. Option D, downloading the database snapshot and uploading it to an S3 bucket, is not secure as it can expose the data during transit.

Therefore, the correct option is B: Create a database snapshot. Add the acquiring company's AWS account to the KMS key policy. Share the snapshot with the acquiring company's AWS account.

upvoted 1 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: B

Option B is the correct answer.

Option A is not recommended because copying the snapshot to a new unencrypted snapshot will compromise the confidentiality of the data. Option C is not recommended because using a different AWS managed KMS key will not allow the acquiring company's AWS account to access the encrypted data.

Option D is not recommended because downloading the database snapshot and uploading it to an Amazon S3 bucket will increase the risk of data leakage or loss of confidentiality during the transfer process.

upvoted 1 times

😑 💄 Steve_4542636 1 year, 3 months ago

Selected Answer: B

https://docs.aws.amazon.com/kms/latest/developerguide/key-policy-modifying-external-accounts.html upvoted 2 times

😑 🌲 geekgirl22 1 year, 3 months ago

It is C, you have to create a new key. Read below

You can't share a snapshot that's encrypted with the default AWS KMS key. You must create a custom AWS KMS key instead. To share an encrypted Aurora DB cluster snapshot:

Create a custom AWS KMS kev.

Add the target account to the custom AWS KMS key.

Create a copy of the DB cluster snapshot using the custom AWS KMS key. Then, share the newly copied snapshot with the target account. Copy the shared DB cluster snapshot from the target account

https://aws.amazon.com/premiumsupport/knowledge-center/aurora-share-encrypted-snapshot/

upvoted 1 times

😑 💄 leoattf 1 year, 3 months ago

I also thought straight away that it could be C, however, the questions mentions that the database is encrypted with an AWS KMS custom key already. So maybe the letter B could be right, since it already has a custom key, not the default KMS Key. What do you think?

upvoted 3 times

😑 🏜 enzomv 1 year, 3 months ago

It is B.

There's no need to create another custom AWS KMS key.

https://aws.amazon.com/premiumsupport/knowledge-center/aurora-share-encrypted-snapshot/

Give target account access to the custom AWS KMS key within the source account

1. Log in to the source account, and go to the AWS KMS console in the same Region as the DB cluster snapshot.

2. Select Customer-managed keys from the navigation pane.

3. Select your custom AWS KMS key (ALREADY CREATED)

4. From the Other AWS accounts section, select Add another AWS account, and then enter the AWS account number of your target account.

Then: Copy and share the DB cluster snapshot upvoted 2 times

😑 👗 KZM 1 year, 3 months ago

Yes, as per the given information "The database is encrypted with an AWS Key Management Service (AWS KMS) customer managed key", it may not be the default AWS KMS key.

upvoted 1 times

😑 🆀 KZM 1 year, 3 months ago

Yes, can't share a snapshot that's encrypted with the default AWS KMS key. But as per the given information "The database is encrypted with an AWS Key Management Service (AWS KMS) customer managed key", it may not be the default AWS KMS key.

upvoted 3 times

😑 🎩 enzomv 1 year, 3 months ago

I agree with KZM.

It is B.

There's no need to create another custom AWS KMS key.

https://aws.amazon.com/premiumsupport/knowledge-center/aurora-share-encrypted-snapshot/

Give target account access to the custom AWS KMS key within the source account

1. Log in to the source account, and go to the AWS KMS console in the same Region as the DB cluster snapshot.

2. Select Customer-managed keys from the navigation pane.

3. Select your custom AWS KMS key (ALREADY CREATED)

4. From the Other AWS accounts section, select Add another AWS account, and then enter the AWS account number of your target account.

Then: Copy and share the DB cluster snapshot upvoted 2 times

😑 💄 nyx12345 1 year, 3 months ago

Is it bad that in answer B the acquiring company is using the same KMS key? Should a new KMS key not be used? upvoted 2 times

😑 💄 geekgirl22 1 year, 3 months ago

Yes, you are right, read my comment above. upvoted 1 times

😑 💄 bsbs1234 8 months, 3 weeks ago

I think I would agree with you if option C say using a new "customer managed key" instead of AWS managed key upvoted 1 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: B

https://aws.amazon.com/premiumsupport/knowledge-center/aurora-share-encrypted-snapshot/ upvoted 2 times

😑 🌲 jennyka76 1 year, 3 months ago

ANSWER - B upvoted 1 times

A company uses a 100 GB Amazon RDS for Microsoft SQL Server Single-AZ DB instance in the us-east-1 Region to store customer transactions. The company needs high availability and automatic recovery for the DB instance.

The company must also run reports on the RDS database several times a year. The report process causes transactions to take longer than usual to post to the customers' accounts. The company needs a solution that will improve the performance of the report process.

Which combination of steps will meet these requirements? (Choose two.)

A. Modify the DB instance from a Single-AZ DB instance to a Multi-AZ deployment.

B. Take a snapshot of the current DB instance. Restore the snapshot to a new RDS deployment in another Availability Zone.

C. Create a read replica of the DB instance in a different Availability Zone. Point all requests for reports to the read replica.

D. Migrate the database to RDS Custom.

E. Use RDS Proxy to limit reporting requests to the maintenance window.

Correct Answer: AC

Community vote distribution

😑 🌲 elearningtakai (Highly Voted 🖬) 1 year, 2 months ago

A and C are the correct choices.

B. It will not help improve the performance of the report process.

AC (100%)

D. Migrating to RDS Custom does not address the issue of high availability and automatic recovery.

E. RDS Proxy can help with scalability and high availability but it does not address the issue of performance for the report process. Limiting the reporting requests to the maintenance window will not provide the required availability and recovery for the DB instance.

upvoted 6 times

😑 👗 TariqKipkemei (Most Recent 🕐) 8 months ago

Selected Answer: AC

Create a Multi-AZ deployment, create a read replica of the DB instance in the second Availability Zone, point all requests for reports to the read replica

upvoted 3 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: AC

The correct answers are A and C.

A. Modify the DB instance from a Single-AZ DB instance to a Multi-AZ deployment. This will provide high availability and automatic recovery for the DB instance. If the primary DB instance fails, the standby DB instance will automatically become the primary DB instance. This will ensure that the database is always available.

C. Create a read replica of the DB instance in a different Availability Zone. Point all requests for reports to the read replica. This will improve the performance of the report process by offloading the read traffic from the primary DB instance to the read replica. The read replica is a fully synchronized copy of the primary DB instance, so the reports will be accurate.

upvoted 3 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: AC

A and C.

upvoted 2 times

😑 🌲 WherecanIstart 1 year, 2 months ago

Selected Answer: AC

Options A & C...

upvoted 3 times

😑 🌲 KZM 1 year, 3 months ago

Options A+C upvoted 2 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: AC

https://medium.com/awesome-cloud/aws-difference-between-multi-az-and-read-replicas-in-amazon-rds-60fe848ef53a

upvoted 3 times

jennyka76 1 year, 3 months ago ANSWER - A & C upvoted 3 times

A company is moving its data management application to AWS. The company wants to transition to an event-driven architecture. The architecture needs to be more distributed and to use serverless concepts while performing the different aspects of the workflow. The company also wants to minimize operational overhead.

Which solution will meet these requirements?

A. Build out the workflow in AWS Glue. Use AWS Glue to invoke AWS Lambda functions to process the workflow steps.

B. Build out the workflow in AWS Step Functions. Deploy the application on Amazon EC2 instances. Use Step Functions to invoke the workflow steps on the EC2 instances.

C. Build out the workflow in Amazon EventBridge. Use EventBridge to invoke AWS Lambda functions on a schedule to process the workflow steps.

D. Build out the workflow in AWS Step Functions. Use Step Functions to create a state machine. Use the state machine to invoke AWS Lambda functions to process the workflow steps.

Correct Answer: D

Community vote distribution

13%

😑 👗 Lonojack (Highly Voted 🖬) 1 year, 3 months ago

D (88%)

Selected Answer: D

This is why I'm voting D.....QUESTION ASKED FOR IT TO: use serverless concepts while performing the different aspects of the workflow. Is option E utilizing Serverless concepts?

upvoted 11 times

😑 💄 geekgirl22 (Highly Voted 🖬) 1 year, 3 months ago

It is D. Cannot be C because C is "scheduled" upvoted 7 times

😑 🌲 bujuman (Most Recent 🕗) 2 months, 3 weeks ago

Selected Answer: D

While considering this requirement: The architecture needs to be more distributed and to use serverless concepts while performing the different aspects of the workflow

And checking the following link : https://aws.amazon.com/step-functions/?nc1=h_ls, Answer D is the best for this use case upvoted 2 times

😑 🌲 TariqKipkemei 8 months ago

Selected Answer: D

One of the use cases for step functions is to Automate extract, transform, and load (ETL) processes. https://aws.amazon.com/step-functions/#:~:text=for%20modern%20applications.-,Use%20cases,-Automate%20extract%2C%20transform upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: D

AWS Step functions is serverless Visual workflows for distributed applications https://aws.amazon.com/step-functions/

upvoted 1 times

😑 🏝 TariqKipkemei 1 year, 1 month ago

Selected Answer: D

Step Functions is based on state machines and tasks. A state machine is a workflow. A task is a state in a workflow that represents a single unit of work that another AWS service performs. Each step in a workflow is a state. Depending on your use case, you can have Step Functions call AWS services, such as Lambda, to perform tasks. https://docs.aws.amazon.com/step-functions/latest/dg/welcome.html upvoted 2 times

😑 🏝 TariqKipkemei 1 year, 1 month ago

Answer is D.

Step Functions is based on state machines and tasks. A state machine is a workflow. A task is a state in a workflow that represents a single unit of work that another AWS service performs. Each step in a workflow is a state.

Depending on your use case, you can have Step Functions call AWS services, such as Lambda, to perform tasks.

https://docs.aws.amazon.com/step-functions/latest/dg/welcome.html

upvoted 2 times

😑 💄 Karlos99 1 year, 3 months ago

Selected Answer: C

There are two main types of routers used in event-driven architectures: event buses and event topics. At AWS, we offer Amazon EventBridge to build event buses and Amazon Simple Notification Service (SNS) to build event topics. https://aws.amazon.com/event-driven-architecture/ upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

How do you 'build out a workflow' in EventBridge? upvoted 2 times

😑 💄 TungPham 1 year, 3 months ago

Selected Answer: D

Step 3: Create a State Machine

Use the Step Functions console to create a state machine that invokes the Lambda function that you created earlier in Step 1. https://docs.aws.amazon.com/step-functions/latest/dg/tutorial-creating-lambda-state-machine.html

In Step Functions, a workflow is called a state machine, which is a series of event-driven steps. Each step in a workflow is called a state. upvoted 2 times

😑 💄 Bilalazure 1 year, 3 months ago

(Selected Answer: D) Distrubuted**** upvoted 1 times

😑 👗 Americo32 1 year, 3 months ago

Selected Answer: C Vou de C, orientada a eventos upvoted 2 times

😑 🛔 MssP 1 year, 2 months ago

It is true that an Event-driven is made with EventBridge but with a Lambda on schedule??? It is a mismatch, isn't it? upvoted 2 times

😑 💄 kraken21 1 year, 2 months ago

Tricky question huh! upvoted 2 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: D

AWS Step functions is serverless Visual workflows for distributed applications https://aws.amazon.com/step-functions/ upvoted 1 times

😑 💄 leoattf 1 year, 3 months ago

Besides, "Visualize and develop resilient workflows for EVENT-DRIVEN architectures." upvoted 1 times

😑 💄 tellmenowwwww 1 year, 3 months ago

Could it be a C because it's event-driven architecture? upvoted 3 times

😑 🌲 SMAZ 1 year, 3 months ago

Option D.. AWS Step functions are used for distributed applications upvoted 2 times

A company is designing the network for an online multi-player game. The game uses the UDP networking protocol and will be deployed in eight AWS Regions. The network architecture needs to minimize latency and packet loss to give end users a high-quality gaming experience.

Which solution will meet these requirements?

- A. Setup a transit gateway in each Region. Create inter-Region peering attachments between each transit gateway.
- B. Set up AWS Global Accelerator with UDP listeners and endpoint groups in each Region.
- C. Set up Amazon CloudFront with UDP turned on. Configure an origin in each Region.
- D. Set up a VPC peering mesh between each Region. Turn on UDP for each VPC.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 💄 lucdt4 (Highly Voted 🖬) 1 year ago

Selected Answer: B

AWS Global Accelerator = TCP/UDP minimize latency upvoted 10 times

E & mwwt2022 Most Recent ② 5 months, 1 week ago

online game -> Global Accelerator cloudfront is for static/dynamic content caching upvoted 3 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: B

Set up AWS Global Accelerator with UDP listeners and endpoint groups in each Region. upvoted 2 times

😑 🏝 TariqKipkemei 1 year, 1 month ago

Selected Answer: B

Connect to up to 10 regions within the AWS global network using the AWS Global Accelerator. upvoted 1 times

😑 🌲 TariqKipkemei 8 months ago

UDP = Global Accelerator upvoted 1 times

😑 💄 OAdekunle 1 year, 1 month ago

General Q: What is AWS Global Accelerator?

A: AWS Global Accelerator is a networking service that helps you improve the availability and performance of the applications that you offer to you global users. AWS Global Accelerator is easy to set up, configure, and manage. It provides static IP addresses that provide a fixed entry point to your applications and eliminate the complexity of managing specific IP addresses for different AWS Regions and Availability Zones. AWS Global Accelerator always routes user traffic to the optimal endpoint based on performance, reacting instantly to changes in application health, your user location, and policies that you configure. You can test the performance benefits from your location with a speed comparison tool. Like other AWS services, AWS Global Accelerator is a self-service, pay-per-use offering, requiring no long term commitments or minimum fees.

https://aws.amazon.com/global-accelerator/faqs/ upvoted 4 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: B

Global Accelerator supports the User Datagram Protocol (UDP) and Transmission Control Protocol (TCP), making it an excellent choice for an online multi-player game using UDP networking protocol. By setting up Global Accelerator with UDP listeners and endpoint groups in each Region, the network architecture can minimize latency and packet loss, giving end users a high-quality gaming experience. upvoted 4 times

😑 💄 Bofi 1 year, 3 months ago

Selected Answer: B

AWS Global Accelerator is a service that improves the availability and performance of applications with local or global users. Global Accelerator improves performance for a wide range of applications over TCP or UDP by proxying packets at the edge to applications running in one or more AWS Regions. Global Accelerator is a good fit for non-HTTP use cases, such as gaming (UDP), IoT (MQTT), or Voice over IP, as well as for HTTP use

cases that specifically require static IP addresses or deterministic, fast regional failover. Both services integrate with AWS Shield for DDoS protection.

upvoted 1 times

😑 🌲 KOnAn 1 year, 3 months ago

Selected Answer: B

Global Accelerator for UDP and TCP traffic upvoted 1 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: B

Global Accelerator upvoted 1 times

😑 💄 Neha999 1 year, 3 months ago

B Global Accelerator for UDP traffic upvoted 1 times

Question #353

The company wants to minimize any disruptions, stabilize performance, and reduce costs while retaining the capacity for double the IOPS. The company wants to move the database tier to a fully managed solution that is highly available and fault tolerant.

Which solution will meet these requirements MOST cost-effectively?

A. Use a Multi-AZ deployment of an Amazon RDS for MySQL DB instance with an io2 Block Express EBS volume.

B. Use a Multi-AZ deployment of an Amazon RDS for MySQL DB instance with a General Purpose SSD (gp2) EBS volume.

C. Use Amazon S3 Intelligent-Tiering access tiers.

D. Use two large EC2 instances to host the database in active-passive mode.

Correct Answer: B

Community vote distribution

11%

😑 👗 AlmeroSenior (Highly Voted 🖬 1 year, 3 months ago

B (89%)

Selected Answer: B

RDS does not support IO2 or IO2express . GP2 can do the required IOPS

RDS supported Storage > https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html GP2 max IOPS > https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/general-purpose.html#gp2-performance upvoted 16 times

😑 🌲 sophieb (Most Recent 🕗) 2 months, 2 weeks ago

Selected Answer: B

RDS now supports io2 but it might still be an overkill given Gp2 is enough and we are looking for the most cost effective solution. upvoted 3 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Selected Answer: B

RDS does not support IO2 or IO2express . GP2 can do the required IOPS upvoted 2 times

😑 👗 Gooniegoogoo 11 months, 2 weeks ago

The Options is A only because it is sufficient.. Provisioned IOPS are available but overkill.. just want to make sure we understand why its A for the right reason

upvoted 1 times

😑 💄 dkw2342 3 months, 1 week ago

Provisioned IOPS are available, but not io2, just io1.

upvoted 1 times

😑 🛔 Abrar2022 1 year ago

Simplified by Almero - thanks.

RDS does not support IO2 or IO2express . GP2 can do the required IOPS upvoted 2 times

😑 上 TariqKipkemei 1 year, 1 month ago

Selected Answer: B

I tried on the portal and only gp3 and i01 are supported. This is 11 May 2023. upvoted 3 times

😑 💄 ruqui 1 year ago

it doesn't matter whether or no io* is supported, using io2 is overkill, you only need 1K IOPS, B is the correct answer

upvoted 1 times

😑 L SimiTik 1 year, 1 month ago

А

Amazon RDS supports the use of Amazon EBS Provisioned IOPS (io2) volumes. When creating a new DB instance or modifying an existing one, you can select the io2 volume type and specify the amount of IOPS and storage capacity required. RDS also supports the newer io2 Block Express volumes, which can deliver even higher performance for mission-critical database workloads.

upvoted 2 times

😑 🏝 TariqKipkemei 1 year, 1 month ago

Impossible. I just tried on the portal and only io1 and gp3 are supported. upvoted 1 times

😑 👗 klayytech 1 year, 2 months ago

Selected Answer: B

he most cost-effective solution that meets the requirements is to use a Multi-AZ deployment of an Amazon RDS for MySQL DB instance with a General Purpose SSD (gp2) EBS volume. This solution will provide high availability and fault tolerance while minimizing disruptions and stabilizing performance. The gp2 EBS volume can handle up to 16,000 IOPS. You can also scale up to 64 TiB of storage.

Amazon RDS for MySQL provides automated backups, software patching, and automatic host replacement. It also provides Multi-AZ deployments that automatically replicate data to a standby instance in another Availability Zone. This ensures that data is always available even in the event of a failure.

upvoted 1 times

😑 💄 test_devops_aws 1 year, 2 months ago

Selected Answer: B

RDS does not support io2 !!! upvoted 1 times

😑 💄 Maximus007 1 year, 2 months ago

B:gp3 would be the better option, but considering we have only gp2 option and such storage volume - gp2 will be the right choice upvoted 3 times

😑 🆀 Nel8 1 year, 3 months ago

Selected Answer: B

I thought the answer here is A. But when I found the link from Amazon website; as per AWS:

Amazon RDS provides three storage types: General Purpose SSD (also known as gp2 and gp3), Provisioned IOPS SSD (also known as io1), and magnetic (also known as standard). They differ in performance characteristics and price, which means that you can tailor your storage performance and cost to the needs of your database workload. You can create MySQL, MariaDB, Oracle, and PostgreSQL RDS DB instances with up to 64 tebibytes (TiB) of storage. You can create SQL Server RDS DB instances with up to 16 TiB of storage. For this amount of storage, use the Provisione IOPS SSD and General Purpose SSD storage types.

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html upvoted 1 times

🖃 👗 Steve_4542636 1 year, 3 months ago

Selected Answer: B

for DB instances between 1 TiB and 4 TiB, storage is striped across four Amazon EBS volumes providing burst performance of up to 12,000 IOPS.

from "https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html" upvoted 1 times

😑 🌡 TungPham 1 year, 3 months ago

Selected Answer: B

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html

Amazon RDS provides three storage types: General Purpose SSD (also known as gp2 and gp3), Provisioned IOPS SSD (also known as io1), and magnetic (also known as standard)

B - MOST cost-effectively

upvoted 3 times

😑 👗 KZM 1 year, 3 months ago

The baseline IOPS performance of gp2 volumes is 3 IOPS per GB, which means that a 1 TB gp2 volume will have a baseline performance of 3,000 IOPS. However, the volume can also burst up to 16,000 IOPS for short periods, but this burst performance is limited and may not be sustained for long durations.

So, I am more prefer option A.

upvoted 1 times

😑 🌡 KZM 1 year, 3 months ago

If a 1 TB gp3 EBS volume is used, the maximum available IOPS according to calculations is 3000. This means that the storage can support a requirement of 1000 IOPS, and even 2000 IOPS if the requirement is doubled. I am confusing between choosing A or B.

upvoted 1 times

E **a** mark16dc 1 year, 3 months ago

Selected Answer: A

Option A is the correct answer. A Multi-AZ deployment provides high availability and fault tolerance by automatically replicating data to a standby instance in a different Availability Zone. This allows for seamless failover in the event of a primary instance failure. Using an io2 Block Express EBS volume provides the needed IOPS performance and capacity for the database. It is also designed for low latency and high durability, which makes a good choice for a database tier.

upvoted 1 times

😑 🌲 CapJackSparrow 1 year, 2 months ago

How will you select io2 when RDS only offers io1....magic? upvoted 1 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: B

Correction - hit wrong answer button - meant 'B'

Amazon RDS provides three storage types: General Purpose SSD (also known as gp2 and gp3), Provisioned IOPS SSD (also known as io1) https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html

upvoted 1 times

😑 👗 bdp123 1 year, 3 months ago

Selected Answer: A

Amazon RDS provides three storage types: General Purpose SSD (also known as gp2 and gp3), Provisioned IOPS SSD (also known as io1) https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html

upvoted 1 times

A company hosts a serverless application on AWS. The application uses Amazon API Gateway, AWS Lambda, and an Amazon RDS for PostgreSQL database. The company notices an increase in application errors that result from database connection timeouts during times of peak traffic or unpredictable traffic. The company needs a solution that reduces the application failures with the least amount of change to the code.

What should a solutions architect do to meet these requirements?

A. Reduce the Lambda concurrency rate.

- B. Enable RDS Proxy on the RDS DB instance.
- C. Resize the RDS DB instance class to accept more connections.
- D. Migrate the database to Amazon DynamoDB with on-demand scaling.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 TariqKipkemei (Highly Voted 🖬) 1 year, 1 month ago

Selected Answer: B

Many applications, including those built on modern serverless architectures, can have a large number of open connections to the database server and may open and close database connections at a high rate, exhausting database memory and compute resources. Amazon RDS Proxy allows applications to pool and share connections established with the database, improving database efficiency and application scalability. With RDS Proxy, failover times for Aurora and RDS databases are reduced by up to 66%.

https://aws.amazon.com/rds/proxy/

upvoted 9 times

😑 💄 Murtadhaceit (Most Recent 🕗) 6 months, 1 week ago

Selected Answer: B

A. Reduce the Lambda concurrency rate? Has nothing to do with decreasing connections timeout.

- B. Enable RDS Proxy on the RDS DB instance. Correct answer
- C. Resize the RDS DB instance class to accept more connections? More connections means worse performance. Therefore, not correct.

D. Migrate the database to Amazon DynamoDB with on-demand scaling? DynamoDB is a noSQL database. Not correct.

upvoted 4 times

😑 🏝 Guru4Cloud 9 months, 1 week ago

Selected Answer: B

RDS Proxy is a fully managed, highly available, and scalable proxy for Amazon Relational Database Service (RDS) that makes it easy to connect to your RDS instances from applications running on AWS Lambda. RDS Proxy offloads the management of connections to the database, which can help to improve performance and reliability.

upvoted 3 times

😑 🌢 elearningtakai 1 year, 2 months ago

Selected Answer: B

To reduce application failures resulting from database connection timeouts, the best solution is to enable RDS Proxy on the RDS DB instance upvoted 1 times

😑 🌲 WherecanIstart 1 year, 2 months ago

Selected Answer: B

RDS Proxy upvoted 3 times

😑 💄 nder 1 year, 3 months ago

Selected Answer: B

RDS Proxy will pool connections, no code changes need to be made upvoted 1 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: B

RDS proxy upvoted 1 times

😑 💄 Neha999 1 year, 3 months ago

B RDS Proxy https://aws.amazon.com/rds/proxy/ upvoted 2 times

Which solution will run the batch job within 15 minutes with the LEAST operational overhead?

A. Use AWS Lambda with functional scaling.

B. Use Amazon Elastic Container Service (Amazon ECS) with AWS Fargate.

C. Use Amazon Lightsail with AWS Auto Scaling.

D. Use AWS Batch on Amazon EC2.

Correct Answer: A

Community vote distribution

D (96%)

4%

😑 🛔 NolaHOla (Highly Voted 🖬) 1 year, 3 months ago

The amount of CPU and memory resources required by the batch job exceeds the capabilities of AWS Lambda and Amazon Lightsail with AWS Auto Scaling, which offer limited compute resources. AWS Fargate offers containerized application orchestration and scalable infrastructure, but may require additional operational overhead to configure and manage the environment. AWS Batch is a fully managed service that automatically provisions the required infrastructure for batch jobs, with options to use different instance types and launch modes.

Therefore, the solution that will run the batch job within 15 minutes with the LEAST operational overhead is D. Use AWS Batch on Amazon EC2. AWS Batch can handle all the operational aspects of job scheduling, instance management, and scaling while using Amazon EC2 injavascript:void(0)stances with the right amount of CPU and memory resources to meet the job's requirements. upvoted 19 times

😑 💄 everfly (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: D

AWS Batch is a fully-managed service that can launch and manage the compute resources needed to execute batch jobs. It can scale the compute environment based on the size and timing of the batch jobs.

upvoted 11 times

😑 👗 Ramdi1 (Most Recent 🕑) 8 months, 1 week ago

Selected Answer: D

The question needs to be phrased differently. I assume at first it was Lambda, because it says 15 minutes in the question which can be done. Yes it also does say CPU intensive however they go on with a full stop and then give you the server specs. It does not say it uses that much of the specs so they need to really rephrase the questions.

upvoted 2 times

😑 🎍 Guru4Cloud 9 months, 1 week ago

Selected Answer: D

The main reasons are:

AWS Batch can easily schedule and run batch jobs on EC2 instances. It can scale up to the required vCPUs and memory to match the on-premises server.

Using EC2 provides full control over the instance type to meet the resource needs.

No servers or clusters to manage like with ECS/Fargate or Lightsail. AWS Batch handles this automatically.

More cost effective and operationally simple compared to Lambda which is not ideal for long running batch jobs.

upvoted 3 times

😑 💄 BrijMohan08 9 months, 1 week ago

Selected Answer: A

On-Prem was avg 15 min, but target state architecture is expected to finish within 15 min upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

How? The on-prem server has 64 CPUs and 512 GB RAM, Lambda offers much less. And even on-prem it takes 15 minutes ON AVERAGE, sometimes more.

upvoted 4 times

E **Jayce5** 10 months, 2 weeks ago

Selected Answer: D

Not Lambda, "average 15 minutes" means there are jobs with running more and less than 15 minutes. Lambda max is 15 minutes. upvoted 2 times

😑 🌡 Gooniegoogoo 11 months, 2 weeks ago

This is for certain a tough one. I do see that they have thrown a curve ball in making it Lambda Functional scaling, however what we dont know is i this application has many request or one large one.. looks like Lambda can scale and use the same lambda env.. seems intensive tho so will go with D

upvoted 4 times

😑 💄 TariqKipkemei 1 year, 1 month ago

Selected Answer: D AWS Batch upvoted 2 times

😑 👗 JLII 1 year, 3 months ago

Selected Answer: D

Not A because: "AWS Lambda now supports up to 10 GB of memory and 6 vCPU cores for Lambda Functions." https://aws.amazon.com/aboutaws/whats-new/2020/12/aws-lambda-supports-10gb-memory-6-vcpu-cores-lambda-functions/ vs. "The server has 64 virtual CPU (vCPU) and 512 GiB of memory" in the question.

upvoted 6 times

😑 💄 geekgirl22 1 year, 3 months ago

A is the answer. Lambda is known that has a limit of 15 minutes. So for as long as it says "within 15 minutes" that should be a clear indication it is Lambda

upvoted 1 times

😑 🌲 nder 1 year, 3 months ago

Wrong, the job takes "On average 15 minutes" and requires more cpu and ram than lambda can deal with. AWS Batch is correct in this scenario upvoted 3 times

😑 💄 geekgirl22 1 year, 3 months ago

read the rest of the question which gives the answer: "Which solution will run the batch job within 15 minutes with the LEAST operational overhead?" Keyword "Within 15 minutes"

upvoted 2 times

😑 💄 Lonojack 1 year, 3 months ago

What happens if it EXCEEDS the 15 min AVERAGE? Average = possibly can be more than 15min. The safer bet would be option D: AWS Batch on EC2 upvoted 6 times

😑 🌡 Terion 8 months, 2 weeks ago

I think what he means is that it takes on average 15 min on prem only upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

How are you going to get 64 vCPUS to a Lambda function? upvoted 1 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: D

AWS batch on EC2 upvoted 1 times

A company stores its data objects in Amazon S3 Standard storage. A solutions architect has found that 75% of the data is rarely accessed after 30 days. The company needs all the data to remain immediately accessible with the same high availability and resiliency, but the company wants to minimize storage costs.

Which storage solution will meet these requirements?

A. Move the data objects to S3 Glacier Deep Archive after 30 days.

B. Move the data objects to S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days.

C. Move the data objects to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days.

D. Move the data objects to S3 One Zone-Infrequent Access (S3 One Zone-IA) immediately.

Correct	Answer:	В
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Community vote distribution

B (100%)

😑 🌲 Apexakil1996 5 months, 3 weeks ago

One -zone -infrequent access cannot be the answer because it requires high availability so standard infrequent access should be the answer upvoted 4 times

😑 👗 TariqKipkemei 8 months ago

Selected Answer: B

high availability, resiliency = multi AZ 75% of the data is rarely accessed but remain immediately accessible = Standard-Infrequent Access upvoted 3 times

Guru4Cloud 9 months, 1 week ago

Selected Answer: B

The correct answer is B.

S3 Standard-IA is a storage class that is designed for infrequently accessed data. It offers lower storage costs than S3 Standard, but it has a retrieva latency of 1-5 minutes.

upvoted 3 times

😑 🌲 Piccalo 1 year, 2 months ago

Highly available so One Zone IA is out the question Glacier Deep archive isn't immediately accessible 12-48 hours B is the answer. upvoted 4 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: B

S3 Glacier Deep Archive is intended for data that is rarely accessed and can tolerate retrieval times measured in hours. Moving data to S3 One Zone-IA immediately would not meet the requirement of immediate accessibility with the same high availability and resiliency. upvoted 1 times

😑 👗 KS2020 1 year, 2 months ago

The answer should be C.

S3 One Zone-IA is for data that is accessed less frequently but requires rapid access when needed. Unlike other S3 Storage Classes which store dat in a minimum of three Availability Zones (AZs), S3 One Zone-IA stores data in a single AZ and costs 20% less than S3 Standard-IA.

https://aws.amazon.com/s3/storage-classes/#:~:text=S3%20One%20Zone%2DIA%20is,less%20than%20S3%20Standard%2DIA. upvoted 1 times

😑 🌲 shanwford 1 year, 2 months ago

The Question emphasises to kepp same high availability class - S3 One Zone-IA doesnt support multiple Availability Zone data resilience model like S3 Standard-Infrequent Access. upvoted 2 times

😑 💄 Lonojack 1 year, 3 months ago

Selected Answer: B

Needs immediate accessibility after 30days, IF they need to be accessed. upvoted 4 times

😑 🌲 bdp123 1 year, 3 months ago

Selected Answer: B

S3 Standard-Infrequent Access after 30 days upvoted 2 times

😑 💄 NolaHOla 1 year, 3 months ago

В

Option B - Move the data objects to S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days - will meet the requirements of keeping the dat immediately accessible with high availability and resiliency, while minimizing storage costs. S3 Standard-IA is designed for infrequently accessed data, and it provides a lower storage cost than S3 Standard, while still offering the same low latency, high throughput, and high durability as S3 Standard.

upvoted 4 times

A gaming company is moving its public scoreboard from a data center to the AWS Cloud. The company uses Amazon EC2 Windows Server instances behind an Application Load Balancer to host its dynamic application. The company needs a highly available storage solution for the application. The application consists of static files and dynamic server-side code.

Which combination of steps should a solutions architect take to meet these requirements? (Choose two.)

A. Store the static files on Amazon S3. Use Amazon CloudFront to cache objects at the edge.

B. Store the static files on Amazon S3. Use Amazon ElastiCache to cache objects at the edge.

C. Store the server-side code on Amazon Elastic File System (Amazon EFS). Mount the EFS volume on each EC2 instance to share the files.

D. Store the server-side code on Amazon FSx for Windows File Server. Mount the FSx for Windows File Server volume on each EC2 instance to share the files.

E. Store the server-side code on a General Purpose SSD (gp2) Amazon Elastic Block Store (Amazon EBS) volume. Mount the EBS volume on each EC2 instance to share the files.

Correct Answer: AD

Community vote distribution

😑 👗 Steve_4542636 (Highly Voted 🖬 1 year, 3 months ago

AD (100%)

Selected Answer: AD

A because Elasticache, despite being ideal for leaderboards per Amazon, doesn't cache at edge locations. D because FSx has higher performance for low latency needs.

https://www.techtarget.com/searchaws/tip/Amazon-FSx-vs-EFS-Compare-the-AWS-file-services

"FSx is built for high performance and submillisecond latency using solid-state drive storage volumes. This design enables users to select storage capacity and latency independently. Thus, even a subterabyte file system can have 256 Mbps or higher throughput and support volumes up to 64 TB."

upvoted 6 times

😑 🌲 Nel8 1 year, 3 months ago

Just to add, ElastiCache is use in front of AWS database. upvoted 2 times

😑 💄 baba365 8 months, 3 weeks ago

Why not EFS? upvoted 1 times

😑 🛔 Guru4Cloud (Highly Voted 🖬) 9 months, 1 week ago

Selected Answer: AD

The reasons are:

Storing static files in S3 with CloudFront provides durability, high availability, and low latency by caching at edge locations. FSx for Windows File Server provides a fully managed Windows native file system that can be accessed from the Windows EC2 instances to share server-side code. It is designed for high availability and scales up to 10s of GBPS throughput.

EFS and EBS volumes can be attached to a single AZ. FSx and S3 are replicated across AZs for high availability.

upvoted 5 times

😑 👗 rodrigoleoncio (Most Recent 🕗) 3 weeks ago

Selected Answer: AD

A because Elasticache doesn't cache at edge locations. D because FSx has higher performance for low latency needs. upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

The question and options are badly worded. How does (D) storing server side code on a file server makes it executable? upvoted 2 times

😑 💄 4fad2f8 5 months ago

you can't mount efs on windows upvoted 2 times

😑 🌲 WherecanIstart 1 year, 2 months ago

Selected Answer: AD

A & D for sure upvoted 4 times

KZM 1 year, 3 months ago It is obvious that A and D. upvoted 1 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: AD

both A and D seem correct upvoted 1 times

NolaHOla 1 year, 3 months ago A and D seems correct

upvoted 1 times

A social media company runs its application on Amazon EC2 instances behind an Application Load Balancer (ALB). The ALB is the origin for an Amazon CloudFront distribution. The application has more than a billion images stored in an Amazon S3 bucket and processes thousands of images each second. The company wants to resize the images dynamically and serve appropriate formats to clients.

Which solution will meet these requirements with the LEAST operational overhead?

A. Install an external image management library on an EC2 instance. Use the image management library to process the images.

B. Create a CloudFront origin request policy. Use the policy to automatically resize images and to serve the appropriate format based on the User-Agent HTTP header in the request.

C. Use a Lambda@Edge function with an external image management library. Associate the Lambda@Edge function with the CloudFront behaviors that serve the images.

D. Create a CloudFront response headers policy. Use the policy to automatically resize images and to serve the appropriate format based on the User-Agent HTTP header in the request.

Correct Answer: D		
Community vote distribution	C (88%)	12%
		1 = 0

😑 👗 NolaHOla (Highly Voted 🖬) 1 year, 3 months ago

Use a Lambda@Edge function with an external image management library. Associate the Lambda@Edge function with the CloudFront behaviors that serve the images.

Using a Lambda@Edge function with an external image management library is the best solution to resize the images dynamically and serve appropriate formats to clients. Lambda@Edge is a serverless computing service that allows running custom code in response to CloudFront events such as viewer requests and origin requests. By using a Lambda@Edge function, it's possible to process images on the fly and modify the CloudFront response before it's sent back to the client. Additionally, Lambda@Edge has built-in support for external libraries that can be used to process images. This approach will reduce operational overhead and scale automatically with traffic. upvoted 19 times

😑 👗 TariqKipkemei (Highly Voted 🖬) 8 months ago

Selected Answer: C

The moment there is a need to implement some logic at the CDN think Lambda@Edge. upvoted 6 times

😑 🛔 Guru4Cloud Most Recent 🕐 9 months, 1 week ago

Selected Answer: C

The correct answer is C.

A Lambda@Edge function is a serverless function that runs at the edge of the CloudFront network. This means that the function is executed close to the user, which can improve performance.

An external image management library can be used to resize images and to serve the appropriate format.

Associating the Lambda@Edge function with the CloudFront behaviors that serve the images ensures that the function is executed for all requests that are served by those behaviors.

upvoted 3 times

😑 🌲 BrijMohan08 9 months, 1 week ago

Selected Answer: B

If the user asks for the most optimized image format (JPEG,WebP, or AVIF) using the directive format=auto, CloudFront Function will select the bes format based on the Accept header present in the request.

Latest documentation: https://aws.amazon.com/blogs/networking-and-content-delivery/image-optimization-using-amazon-cloudfront-and-aws-lambda/

upvoted 2 times

Pentium75 5 months, 2 weeks ago But a policy alone cannot resize images. upvoted 1 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: C

https://aws.amazon.com/cn/blogs/networking-and-content-delivery/resizing-images-with-amazon-cloudfront-lambdaedge-aws-cdn-blog/ upvoted 4 times

😑 💄 everfly 1 year, 3 months ago

Selected Answer: C

https://aws.amazon.com/cn/blogs/networking-and-content-delivery/resizing-images-with-amazon-cloudfront-lambdaedge-aws-cdn-blog/upvoted 2 times

A hospital needs to store patient records in an Amazon S3 bucket. The hospital's compliance team must ensure that all protected health information (PHI) is encrypted in transit and at rest. The compliance team must administer the encryption key for data at rest.

Which solution will meet these requirements?

A. Create a public SSL/TLS certificate in AWS Certificate Manager (ACM). Associate the certificate with Amazon S3. Configure default encryption for each S3 bucket to use server-side encryption with AWS KMS keys (SSE-KMS). Assign the compliance team to manage the KMS keys.

B. Use the aws:SecureTransport condition on S3 bucket policies to allow only encrypted connections over HTTPS (TLS). Configure default encryption for each S3 bucket to use server-side encryption with S3 managed encryption keys (SSE-S3). Assign the compliance team to manage the SSE-S3 keys.

C. Use the aws:SecureTransport condition on S3 bucket policies to allow only encrypted connections over HTTPS (TLS). Configure default encryption for each S3 bucket to use server-side encryption with AWS KMS keys (SSE-KMS). Assign the compliance team to manage the KMS keys.

D. Use the aws:SecureTransport condition on S3 bucket policies to allow only encrypted connections over HTTPS (TLS). Use Amazon Macie to protect the sensitive data that is stored in Amazon S3. Assign the compliance team to manage Macie.

Correct Answer: C	
Community vote distribution	
C (84%)	Other

😑 👗 NolaHOla (Highly Voted 🖬) 1 year, 3 months ago

Option C is correct because it allows the compliance team to manage the KMS keys used for server-side encryption, thereby providing the necessary control over the encryption keys. Additionally, the use of the "aws:SecureTransport" condition on the bucket policy ensures that all connections to the S3 bucket are encrypted in transit.

option B might be misleading but using SSE-S3, the encryption keys are managed by AWS and not by the compliance team upvoted 22 times

😑 📥 Lonojack 1 year, 3 months ago

Perfect explanation. I Agree upvoted 3 times

😑 🌲 pentium75 (Highly Voted 🖬) 5 months, 2 weeks ago

Selected Answer: C

Not A, Certificate Manager has nothing to do with S3 Not B, SSE-S3 does not allow compliance team to manage the key Not D, Macie is for identifying sensitive data, not protecting it upvoted 8 times

😑 🛔 Guru4Cloud (Most Recent 🕗) 9 months, 1 week ago

Selected Answer: C

Macie does not encrypt the data like the question is asking https://docs.aws.amazon.com/macie/latest/user/what-is-macie.html

Also, SSE-S3 encryption is fully managed by AWS so the Compliance Team can't administer this.

upvoted 2 times

😑 🌲 Yadav_Sanjay 1 year ago

Selected Answer: C

D - Can't be because - Amazon Macie is a data security service that uses machine learning (ML) and pattern matching to discover and help protect your sensitive data. Macie discovers sensitive information, can help in protection but can't protect

upvoted 2 times

😑 🌲 TariqKipkemei 1 year, 1 month ago

Selected Answer: C

B can work if they do not want control over encryption keys. upvoted 1 times

😑 🌲 Russs99 1 year, 2 months ago

Selected Answer: A

Option A proposes creating a public SSL/TLS certificate in AWS Certificate Manager and associating it with Amazon S3. This step ensures that data a is encrypted in transit. Then, the default encryption for each S3 bucket will be configured to use server-side encryption with AWS KMS keys (SSE-KMS), which will provide encryption at rest for the data stored in S3. In this solution, the compliance team will manage the KMS keys, ensuring that they control the encryption keys for data at rest.

upvoted 1 times

😑 👗 Shrestwt 1 year, 1 month ago

ACM cannot be integrated with Amazon S3 bucket directly. upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

ACM is for website certificates, has nothing to do with S3. upvoted 1 times

😑 💄 Bofi 1 year, 2 months ago

Selected Answer: C

Option C seems to be the correct answer, option A is also close but ACM cannot be integrated with Amazon S3 bucket directly, hence, u can not attached TLS to S3. You can only attached TLS certificate to ALB, API Gateway and CloudFront and maybe Global Accelerator but definitely NOT EC instance and S3 bucket

upvoted 1 times

😑 🌲 CapJackSparrow 1 year, 2 months ago

Selected Answer: C

D makes no sense. upvoted 2 times

😑 🌲 Dody 1 year, 3 months ago

Selected Answer: C

Correct Answer is "C"

"D" is not correct because Amazon Macie securely stores your data at rest using AWS encryption solutions. Macie encrypts data, such as findings, using an AWS managed key from AWS Key Management Service (AWS KMS). However, in the question there is a requirement that the compliance team must administer the encryption key for data at rest.

https://docs.aws.amazon.com/macie/latest/user/data-protection.html

upvoted 2 times

😑 💄 cegama543 1 year, 3 months ago

Selected Answer: C

Option C will meet the requirements.

Explanation:

The compliance team needs to administer the encryption key for data at rest in order to ensure that protected health information (PHI) is encrypted in transit and at rest. Therefore, we need to use server-side encryption with AWS KMS keys (SSE-KMS). The default encryption for each S3 bucket can be configured to use SSE-KMS to ensure that all new objects in the bucket are encrypted with KMS keys.

Additionally, we can configure the S3 bucket policies to allow only encrypted connections over HTTPS (TLS) using the aws:SecureTransport condition. This ensures that the data is encrypted in transit.

upvoted 1 times

😑 🌲 Karlos99 1 year, 3 months ago

Selected Answer: C

We must provide encrypted in transit and at rest. Macie is needed to discover and recognize any PII or Protected Health Information. We already know that the hospital is working with the sensitive data) so protect them with KMS and SSL. Answer D is unnecessary upvoted 1 times

😑 👗 Steve_4542636 1 year, 3 months ago

Selected Answer: C

Macie does not encrypt the data like the question is asking https://docs.aws.amazon.com/macie/latest/user/what-is-macie.html

Also, SSE-S3 encryption is fully managed by AWS so the Compliance Team can't administer this. upvoted 2 times

😑 🛔 Abhineet9148232 1 year, 3 months ago

Selected Answer: C

C [Correct]: Ensures Https only traffic (encrypted transit), Enables compliance team to govern encryption key. D [Incorrect]: Misleading; PHI is required to be encrypted not discovered. Maice is a discovery service. (https://aws.amazon.com/macie/) upvoted 4 times

😑 💄 Nel8 1 year, 3 months ago

Selected Answer: D

Correct answer should be D. "Use Amazon Macie to protect the sensitive data..."

As requirement says "The hospitals's compliance team must ensure that all protected health information (PHI) is encrypted in transit and at rest."

Macie protects personal record such as PHI. Macie provides you with an inventory of your S3 buckets, and automatically evaluates and monitors

the buckets for security and access control. If Macie detects a potential issue with the security or privacy of your data, such as a bucket that becomes publicly accessible, Macie generates a finding for you to review and remediate as necessary. upvoted 4 times

😑 💄 Drayen25 1 year, 3 months ago

Option C should be upvoted 2 times

Question #360

A company uses Amazon API Gateway to run a private gateway with two REST APIs in the same VPC. The BuyStock RESTful web service calls the CheckFunds RESTful web service to ensure that enough funds are available before a stock can be purchased. The company has noticed in the VPC flow logs that the BuyStock RESTful web service calls the CheckFunds RESTful web service over the internet instead of through the VPC. A solutions architect must implement a solution so that the APIs communicate through the VPC.

Which solution will meet these requirements with the FEWEST changes to the code?

A. Add an X-API-Key header in the HTTP header for authorization.

B. Use an interface endpoint.

C. Use a gateway endpoint.

D. Add an Amazon Simple Queue Service (Amazon SQS) queue between the two REST APIs.

Correct Answer: A					
Community vote distrib	oution				
	B (92%)	8%			
🗆 🛎 everfly (Highly Vote	ed 🐠 1 year, 3 months ago				
	ate IP address that serve	ed, redundant VPC endpoint that p es as an entry point for traffic des			
Selected Answer: B	1 year ago				
C. Use a gateway er upvoted 8 times	ndpoint is wrong becaus	se gateway endpoints only suppor	rt for S3 and dynamoDB, s	so B is correct	
😑 🌲 meowruki Most Re	ecent 🕗 6 months, 2 weeks	s ago			
Selected Answer: B					

B. Use an interface endpoint.

Here's the reasoning:

Interface Endpoint (Option B): An interface endpoint (also known as VPC endpoint) allows communication between resources in your VPC and services without traversing the public internet. In this case, you can create an interface endpoint for API Gateway in your VPC. This enables the communication between the BuyStock and CheckFunds RESTful web services within the VPC, and it doesn't require significant changes to the code

X-API-Key header (Option A): Adding an X-API-Key header for authorization doesn't address the issue of ensuring that the APIs communicate through the VPC. It's more related to authentication and authorization mechanisms.

😑 🌡 liux99 7 months ago

The question here is that the BuyStock RESTful web service calls the CheckFunds RESTful web service through API gateway (internet), not directly. How does API gateway connect the services BuyStock and CheckFunds? It connects the Interface Endpoint of the services through Privatelink. The interface endpoints provide direct connection between services within the same private subnet. Answer B is correct.

upvoted 2 times

😑 🜲 youdelin 8 months ago

how is it even possible, I mean if it's private and both are in the same VPC then we shouldn't even have such an issue right? upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: B

B. Use an interface endpoint. upvoted 1 times

😑 🏝 envest 1 year ago

Answer B (from abylead)

With API GW, you can create multiple prv REST APIs, only accessible with an interface VPC endpt. To allow/ deny simple or cross acc access to your API from selected VPCs & its endpts, you use resource plcys. In addition, you can also use DX for a connection between onprem network to VPC or your prv API.

API GW to VPC: https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-private-apis.html

Less correct & incorrect (infeasible & inadequate) answers: A)X-API-Key in HTTP header for authorization needs auto-process fcts & changes: inadequate. C)VPC GW endpts for S3 or DynamDB aren't for RESTful svcs: infeasible. D)SQS que between 2 REST APIs needs endpts & some changes: inadequate. upvoted 1 times

😑 🏝 aqmdla2002 1 year ago

Selected Answer: C

I select C because it's the solution with the "FEWEST changes to the code" upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Fewest changes to the code doesn't mean break the code by doing something irrelevant. Gateway endpoint is for S3 and DynamoDB upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

Gateway Endpoint can provide access to S3 or DynamoDB, not to API Gateway upvoted 1 times

😑 🌲 TariqKipkemei 1 year, 1 month ago

Selected Answer: B

An interface endpoint is powered by PrivateLink, and uses an elastic network interface (ENI) as an entry point for traffic destined to the service upvoted 2 times

😑 🌲 kprakashbehera 1 year, 3 months ago

Selected Answer: B

BBBBBB upvoted 1 times

😑 💄 siyam008 1 year, 3 months ago

Selected Answer: C

https://www.linkedin.com/pulse/aws-interface-endpoint-vs-gateway-alex-chang upvoted 1 times

😑 🌲 siyam008 1 year, 3 months ago

Correct answer is B. Incorrectly selected C upvoted 2 times

😑 💄 DASBOL 1 year, 3 months ago

Selected Answer: B

https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-private-apis.html upvoted 4 times

😑 💄 Sherif_Abbas 1 year, 3 months ago

Selected Answer: C

The only time where an Interface Endpoint may be preferable (for S3 or DynamoDB) over a Gateway Endpoint is if you require access from onpremises, for example you want private access from your on-premise data center upvoted 2 times

E & Steve_4542636 1 year, 3 months ago

The RESTful services is neither an S3 or DynamDB service, so a VPC Gateway endpoint isn't available here. upvoted 5 times

😑 💄 bdp123 1 year, 3 months ago

Selected Answer: B

fewest changes to code and below link: https://gkzz.medium.com/what-is-the-differences-between-vpc-endpoint-gateway-endpoint-ae97bfab97d8

upvoted 2 times

😑 🌲 PoisonBlack 1 year, 1 month ago

This really helped me understand the difference between the two. Thx upvoted 1 times

🖃 🌲 KAUS2 1 year, 3 months ago

Agreed B upvoted 2 times

😑 🏝 AlmeroSenior 1 year, 3 months ago

Selected Answer: B

https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-private-apis.html - Interface EP upvoted 3 times

A company hosts a multiplayer gaming application on AWS. The company wants the application to read data with sub-millisecond latency and run one-time queries on historical data.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use Amazon RDS for data that is frequently accessed. Run a periodic custom script to export the data to an Amazon S3 bucket.

B. Store the data directly in an Amazon S3 bucket. Implement an S3 Lifecycle policy to move older data to S3 Glacier Deep Archive for long-term storage. Run one-time queries on the data in Amazon S3 by using Amazon Athena.

C. Use Amazon DynamoDB with DynamoDB Accelerator (DAX) for data that is frequently accessed. Export the data to an Amazon S3 bucket by using DynamoDB table export. Run one-time queries on the data in Amazon S3 by using Amazon Athena.

D. Use Amazon DynamoDB for data that is frequently accessed. Turn on streaming to Amazon Kinesis Data Streams. Use Amazon Kinesis Data Firehose to read the data from Kinesis Data Streams. Store the records in an Amazon S3 bucket.

Correct Answer: *B*

Community vote distribution

C (100%)

😑 👗 lexotan (Highly Voted 🖬) 1 year, 1 month ago

Selected Answer: C

would be nice to have an explanation on why examtopic selects its answers. upvoted 11 times

😑 💄 ale_brd_ 5 months, 2 weeks ago

exam topic does not select anything, these are questions from the free forum topics, the only thing exam topic does is to aggregate them all under one single point of view and if you pay you get to see them all aggregated else you can still scroll topic by topic for free upvoted 4 times

😑 🌲 TariqKipkemei (Highly Voted 🖬 7 months, 4 weeks ago

Selected Answer: C

DAX delivers up to a 10 times performance improvement—from milliseconds to microseconds. Using DynamoDB export to S3, you can export data from an Amazon DynamoDB table to an Amazon S3 bucket. This feature enables you to perform analytics and complex queries on your data using other AWS services such as Athena, AWS Glue. upvoted 6 times

😑 🛔 sandordini (Most Recent 🕐) 1 month, 4 weeks ago

Selected Answer: C

Sub-millisecond: DynamoDB (DAX), onetime query, Least operational overhead: Athena upvoted 2 times

😑 🌲 Uzbekistan 3 months, 1 week ago

Selected Answer: C

Dynamo DB + DAX = low latency. upvoted 4 times

😑 👗 fabiomarrocolo 4 months ago

Scusate io ho pagato contributor perchè vedo ancora + votati invece di vedere solo la risposta corretta? Grazie.Fabio upvoted 2 times

😑 👗 LoXoL 3 months, 3 weeks ago

Vedrai sempre e comunque sia la risposta della community ("Most Voted") che la risposta degli admin (rettangolo verde). Occhio perche' la risposta degli admin non sempre e' corretta.

upvoted 1 times

😑 🌲 Mikado211 6 months ago

Sub-millisecond latency == DAX upvoted 3 times

🖯 🎍 Mikado211 6 months ago

So C !

upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: C

Amazon DynamoDB with DynamoDB Accelerator (DAX) is a fully managed, in-memory caching solution for DynamoDB. DAX can improve the performance of DynamoDB by up to 10x. This makes it a good choice for data that needs to be accessed with sub-millisecond latency. DynamoDB table export allows you to export data from DynamoDB to an S3 bucket. This can be useful for running one-time queries on historical data.

Amazon Athena is a serverless, interactive query service that makes it easy to analyze data in Amazon S3. Athena can be used to run one-time queries on the data in the S3 bucket.

upvoted 4 times

😑 🌲 aaroncelestin 9 months, 3 weeks ago

A NoSQL isn't even mentioned in the question and yet we are supposed to just imagine this fictional customer is using a NoSql DB upvoted 2 times

😑 🌲 marufxplorer 11 months, 3 weeks ago

С

Amazon DynamoDB with DynamoDB Accelerator (DAX): DynamoDB is a fully managed NoSQL database service provided by AWS. It is designed fo low-latency access to frequently accessed data. DynamoDB Accelerator (DAX) is an in-memory cache for DynamoDB that can significantly reduce read latency, making it suitable for achieving sub-millisecond read times.

upvoted 3 times

😑 💄 lucdt4 1 year ago

Selected Answer: C

C is correct

A don't meets a requirement (LEAST operational overhead) because use script B: Not regarding to require D: Kinesis for near-real-time (Not for read)

-> C is correct

upvoted 2 times

😑 💄 DagsH 1 year, 2 months ago

Selected Answer: C

Agreed C will be best because of DynamoDB DAX upvoted 1 times

😑 💄 BeeKayEnn 1 year, 2 months ago

Option C will be the best fit.

As they would like to retrieve the data with sub-millisecond, DynamoDB with DAX is the answer.

DynamoDB supports some of the world's largest scale applications by providing consistent, single-digit millisecond response times at any scale. You can build applications with virtually unlimited throughput and storage.

upvoted 2 times

😑 💄 Grace83 1 year, 2 months ago

C is the correct answer upvoted 1 times

😑 🌲 KAUS2 1 year, 3 months ago

Selected Answer: C

Option C is the right one. The questions clearly states "sub-millisecond latency " upvoted 2 times

😑 💄 smgsi 1 year, 3 months ago

Selected Answer: C

https://aws.amazon.com/dynamodb/dax/?nc1=h_ls upvoted 3 times

😑 上 [Removed] 1 year, 3 months ago

Selected Answer: C

Cccccccccc

upvoted 2 times

ACasper 1 year, 3 months ago Answer is C for Submillisecond upvoted 4 times A company uses a payment processing system that requires messages for a particular payment ID to be received in the same order that they were sent. Otherwise, the payments might be processed incorrectly.

Which actions should a solutions architect take to meet this requirement? (Choose two.)

A. Write the messages to an Amazon DynamoDB table with the payment ID as the partition key.

B. Write the messages to an Amazon Kinesis data stream with the payment ID as the partition key.

C. Write the messages to an Amazon ElastiCache for Memcached cluster with the payment ID as the key.

D. Write the messages to an Amazon Simple Queue Service (Amazon SQS) queue. Set the message attribute to use the payment ID.

E. Write the messages to an Amazon Simple Queue Service (Amazon SQS) FIFO queue. Set the message group to use the payment ID.

Correct Answer: BD Community vote distribution BE (74%) AE (22%) 4%

😑 👗 Ashkan_10 (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: BE

Option B is preferred over A because Amazon Kinesis Data Streams inherently maintain the order of records within a shard, which is crucial for the given requirement of preserving the order of messages for a particular payment ID. When you use the payment ID as the partition key, all messages for that payment ID will be sent to the same shard, ensuring that the order of messages is maintained.

On the other hand, Amazon DynamoDB is a NoSQL database service that provides fast and predictable performance with seamless scalability. While it can store data with partition keys, it does not guarantee the order of records within a partition, which is essential for the given use case. Hence, using Kinesis Data Streams is more suitable for this requirement.

As DynamoDB does not keep the order, I think BE is the correct answer here. upvoted 26 times

😑 👗 awsgeek75 (Highly Voted 🖬) 4 months, 3 weeks ago

I don't understand the question. The only requirement is: " system that requires messages for a particular payment ID to be received in the same order that they were sent"

SQS FIFO (E) meets this requirement.

Why would you "write the message" to Kinesis or DynamoDB anymore. There is no streaming or DB storage requirement in the question. Between A/B, B is better logically but it doesn't meet any stated requirement.

Happy to understand what I'm missing

upvoted 5 times

😑 🌲 pentium75 (Most Recent 🕐) 5 months ago

Selected Answer: BE

Both Kinesis and SQS FIFO queue guarantee the order, other answers don't. upvoted 3 times

😑 🌲 meowruki 6 months, 2 weeks ago

Option B (Write the messages to an Amazon Kinesis data stream with the payment ID as the partition key): Kinesis can provide ordered processing

within a shard

Write the messages to an Amazon Simple Queue Service (Amazon SQS) FIFO queue. Set the message group to use the payment ID.

SQS FIFO (First-In-First-Out) queues preserve the order of messages within a message group. upvoted 3 times

😑 🌡 TariqKipkemei 7 months, 4 weeks ago

Selected Answer: BE

Technically both B and E will ensure processing order, but SQS FIFO was specifically built to handle this requirement. There is no ask on how to store the data so A and C are out. upvoted 1 times

E & Pritam228 8 months, 1 week ago

https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/HowItWorks.Partitions.html upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 1 week ago

Selected Answer: DE

options D and E are better because they mimic a real-world queue system and ensure that payments are processed in the correct order, just like customers in a store would be served in the order they arrived. This is crucial for a payment processing system where order matters to avoid mistakes in payment processing.

upvoted 2 times

😑 💄 Guru4Cloud 9 months, 1 week ago

Amazon Kinesis Data Streams Overkill for Ordering

Overkill for Ordering: While Kinesis can maintain order within a partition key, it might be seen as overkill for a scenario where your primary concern is maintaining the order of payments. SQS FIFO queues (option E) are specifically designed for this purpose and provide an easier and more cost-effective solution.

upvoted 1 times

😑 🌲 omoakin 1 year ago

AAAAAAAA EEEEEEEEEEE

upvoted 3 times

🖃 📥 Konb 1 year ago

Selected Answer: AE

IF the question would be "Choose all the solutions that fulfill these requirements" I would chosen BE.

But it is:

"Which actions should a solutions architect take to meet this requirement? "

For this reason I chose AE, because we don't need both Kinesis AND SQS for this solution. Both choices complement to order processing: order stored in DB, work item goes to the queue.

upvoted 3 times

😑 🌡 Smart 10 months, 2 weeks ago

Incorrect, AWS will clarify it by using the phrase - "combination of actions". upvoted 1 times

😑 👗 luisgu 1 year, 1 month ago

Selected Answer: BE

E --> no doubt

B --> see https://docs.aws.amazon.com/streams/latest/dev/key-concepts.html upvoted 1 times

😑 L kruasan 1 year, 1 month ago

Selected Answer: BE

1) SQS FIFO queues guarantee that messages are received in the exact order they are sent. Using the payment ID as the message group ensures al messages for a payment ID are received sequentially.

2) Kinesis data streams can also enforce ordering on a per partition key basis. Using the payment ID as the partition key will ensure strict ordering of messages for each payment ID.

upvoted 2 times

😑 🆀 kruasan 1 year, 1 month ago

The other options do not guarantee message ordering. DynamoDB and ElastiCache are not message queues. SQS standard queues deliver messages in approximate order only.

upvoted 2 times

😑 🏝 mrgeee 1 year, 1 month ago

Selected Answer: BE BE no doubt. upvoted 1 times

🖃 👗 nosense 1 year, 1 month ago

Selected Answer: BE

Option A, writing the messages to an Amazon DynamoDB table, would not necessarily preserve the order of messages for a particular payment ID upvoted 1 times

😑 🌡 MssP 1 year, 2 months ago

Selected Answer: BE

I don't unsderstand A, How you can guaratee the order with DynamoDB?? The order is guarantee with SQS FIFO and Kinesis Data Stream in 1 shard...

upvoted 4 times

😑 💄 pentium75 5 months, 2 weeks ago

If it really means "combination of actions" than A+E would work, because you'd use the FIFO queue (E) to guarantee the order. Then the order in the database doesn't matter. If they want to alternative solutions then obviously B and E would work while A alone doesn't. upvoted 1 times

😑 🛔 Grace83 1 year, 2 months ago

AE is the answer

upvoted 2 times

😑 🛔 XXXman 1 year, 3 months ago

Selected Answer: BE

dynamodb or kinesis data stream which one in order? upvoted 1 times

😑 💄 Karlos99 1 year, 3 months ago

Selected Answer: AE

No doubt) upvoted 3 times

A company is building a game system that needs to send unique events to separate leaderboard, matchmaking, and authentication services concurrently. The company needs an AWS event-driven system that guarantees the order of the events.

Which solution will meet these requirements?

- A. Amazon EventBridge event bus
- B. Amazon Simple Notification Service (Amazon SNS) FIFO topics
- C. Amazon Simple Notification Service (Amazon SNS) standard topics
- D. Amazon Simple Queue Service (Amazon SQS) FIFO queues

Community vote distribution
B (73%) D (21%) 6%

😑 🌲 bella (Highly Voted 🖬 1 year, 1 month ago

Selected Answer: B

I don't honestly / can't understand why people go to ChapGPT to ask for the answers.... if I recall correctly they only consolidated their DB until 2021...

upvoted 17 times

😑 🌲 aaroncelestin 9 months, 3 weeks ago

Yup, ChatGPT doesn't //know// anything about AWS services. It only repeats what other people have said about it, which could be nonsense or hyperbole or some combination thereof.

upvoted 4 times

😑 👗 LazyTs (Highly Voted 🖬) 9 months, 1 week ago

Selected Answer: B

The answer is B Ia. SNS FIFO topics queue should be used combined with SQS FIFO queue in this case. The question asked for correct order to different event, so asking for SNS fan out here to send to individual SQS.

https://docs.aws.amazon.com/sns/latest/dg/fifo-example-use-case.html

upvoted 13 times

😑 💄 dkw2342 3 months, 1 week ago

B is correct, but this is not about SNS -> SQS fan-out, it's not necessary. Just SNS FIFO for ordered pub/sub messaging. upvoted 2 times

😑 🏝 **Po_chih** 8 months, 1 week ago

The best answer! upvoted 1 times

😑 💄 richiexamaws (Most Recent 🕗) 1 week, 1 day ago

Selected Answer: D

AWS does not currently offer FIFO topics for SNS. SNS only supports standard topics, which do not guarantee message order. upvoted 1 times

😑 🌲 Darshan07 4 months ago

Selected Answer: B

Even chat gpt said B upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: B

Yes, you can technically do this with SQS FIFO partitioned queue by giving separate group ID's to leaderboard, matchmaking etc but this is not as useful as SNS FIFO and is overkill as no need for storage etc. B is more elegant and concise solution, upvoted 2 times

□ ♣ foha2012 5 months, 2 weeks ago

Guys, ChatGPT sucks !. Try removing [most voted] from choice B and it will choose D. And if you put [most voted] in front of A, it will select A. LOL upvoted 3 times

😑 🌲 Marco_St 6 months ago

Selected Answer: B

just know SNS FIFO also can send events or messages cocurrently to many subscribers while maintaining the order it receives. SNS fanout pattern is set in standard SNS which is commonly used to fan out events to large number of subscribers and usually for duplicated messages. upvoted 1 times

😑 👗 Mikado211 6 months ago

Selected Answer: B

SQS looks like a good idea first, but since we have to send the same message to multiple destination, even if SQS could do it, SNS is much more dedicated to this kind of usage.

upvoted 4 times

😑 💄 sparun1607 6 months, 2 weeks ago

My Answer is B

https://docs.aws.amazon.com/sns/latest/dg/sns-fifo-topics.html

You can use Amazon SNS FIFO (first in, first out) topics with Amazon SQS FIFO queues to provide strict message ordering and message deduplication. The FIFO capabilities of each of these services work together to act as a fully managed service to integrate distributed applications that require data consistency in near-real time. Subscribing Amazon SQS standard queues to Amazon SNS FIFO topics provides best-effort ordering and at least once delivery.

upvoted 2 times

E & Guru4Cloud 9 months, 1 week ago

Selected Answer: B upvoted 1 times

🖃 🎍 jaydesai8 11 months, 1 week ago

Selected Answer: D

SQS FIFO maintains the order of the events - Answer is D upvoted 2 times

😑 👗 jayce5 1 year ago

Selected Answer: B

It should be the fan-out pattern, and the pattern starts with Amazon SNS FIFO for the orders. upvoted 2 times

😑 🏝 danielklein09 1 year ago

Selected Answer: D

Answer is D. You are so lazy because instead of searching in documentation or your notes, you are asking ChatGPT. Do you really think you will take this exam ? Hint: ask ChatGPT

upvoted 5 times

😑 👗 lucdt4 1 year ago

Selected Answer: D

D is correct (SQS FIFO)

Because B can't send event concurrently though it can send in the order of the events upvoted 1 times

😑 👗 TariqKipkemei 1 year, 1 month ago

Selected Answer: B

Amazon SNS is a highly available and durable publish-subscribe messaging service that allows applications to send messages to multiple subscribers through a topic. SNS FIFO topics are designed to ensure that messages are delivered in the order in which they are sent. This makes them ideal for situations where message order is important, such as in the case of the company's game system.

Option A, Amazon EventBridge event bus, is a serverless event bus service that makes it easy to build event-driven applications. While it supports ordering of events, it does not provide guarantees on the order of delivery.

upvoted 3 times

😑 🆀 rushi0611 1 year, 1 month ago

Selected Answer: B

Option B:

send unique events to separate leaderboard, matchmaking, and authentication services concurrently. Concurrently= fan out pattern. Only SQS cannot do a fan out SQS will be consumer for SNS FIFO.

upvoted 1 times

😑 🏝 neosis91 1 year, 1 month ago

Selected Answer: B

BBBBBBB

upvoted 1 times

A hospital is designing a new application that gathers symptoms from patients. The hospital has decided to use Amazon Simple Queue Service (Amazon SQS) and Amazon Simple Notification Service (Amazon SNS) in the architecture.

A solutions architect is reviewing the infrastructure design. Data must be encrypted at rest and in transit. Only authorized personnel of the hospital should be able to access the data.

Which combination of steps should the solutions architect take to meet these requirements? (Choose two.)

A. Turn on server-side encryption on the SQS components. Update the default key policy to restrict key usage to a set of authorized principals.

B. Turn on server-side encryption on the SNS components by using an AWS Key Management Service (AWS KMS) customer managed key. Apply a key policy to restrict key usage to a set of authorized principals.

C. Turn on encryption on the SNS components. Update the default key policy to restrict key usage to a set of authorized principals. Set a condition in the topic policy to allow only encrypted connections over TLS.

D. Turn on server-side encryption on the SQS components by using an AWS Key Management Service (AWS KMS) customer managed key. Apply a key policy to restrict key usage to a set of authorized principals. Set a condition in the queue policy to allow only encrypted connections over TLS.

E. Turn on server-side encryption on the SQS components by using an AWS Key Management Service (AWS KMS) customer managed key. Apply an IAM policy to restrict key usage to a set of authorized principals. Set a condition in the queue policy to allow only encrypted connections over TLS.

Correct Answer: CD							
Community vote distribution							
BD (73%)	CD (17%)	10%					
😑 🌲 fkie4 (Highly Voted 🖬 1 year,	, 3 months ago						
Selected Answer: BD							

read this:

https://docs.aws.amazon.com/sns/latest/dg/sns-server-side-encryption.html https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-server-side-encryption.html upvoted 13 times

😑 🌲 Gooniegoogoo 11 months, 2 weeks ago

good call.. that confirms on that page:

Important

All requests to topics with SSE enabled must use HTTPS and Signature Version 4.

For information about compatibility of other services with encrypted topics, see your service documentation.

Amazon SNS only supports symmetric encryption KMS keys. You cannot use any other type of KMS key to encrypt your service resources. For help determining whether a KMS key is a symmetric encryption key, see Identifying asymmetric KMS keys. upvoted 3 times

😑 🌲 awsgeek75 (Highly Voted 🖬) 4 months, 3 weeks ago

My god! Every other question is about SQS! I thought this was AWS Solution Architect test not "How to solve any problem in AWS using SQS" test upvoted 10 times

E & pentium75 Most Recent ② 5 months, 2 weeks ago

Selected Answer: BD

A and C involve 'updating the default key policy' which is not something you. Either you create a key policy, OR AWS assigns THE "default key policy".

E 'applies an IAM policy to restrict key usage to a set of authorized principals' which is not how IAM policies work. You can 'apply an IAM policy to restrict key usage', but it would be restricted to the principals who have the policy attached; you can't specify them in the policy.

Leaves B and D. That B lacks the TLS statement is irrelevant because "all requests to topics with SSE enabled must use HTTPS" anyway. upvoted 5 times

😑 🌲 dkw2342 3 months, 1 week ago

Yes, BD is correct.

"All requests to queues with SSE enabled must use HTTPS and Signature Version 4." -> valid for SNS and SQS alike: https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-server-side-encryption.html

https://docs.aws.amazon.com/sns/latest/dg/sns-server-side-encryption.html

"Set a condition in the queue policy to allow only encrypted connections over TLS." refers to the "aws:SecureTransport" condition, but it's actually redundant.

upvoted 1 times

😑 🏝 TariqKipkemei 1 year ago

Selected Answer: CD

Its only options C and D that covers encryption on transit, encryption at rest and a restriction policy. upvoted 2 times

😑 💄 Lalo 1 year ago

Answer is BD SNS: AWS KMS, key policy, SQS: AWS KMS, Key policy upvoted 3 times

😑 🌲 luisgu 1 year, 1 month ago

Selected Answer: BD

"IAM policies you can't specify the principal in an identity-based policy because it applies to the user or role to which it is attached"

reference: https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/security_iam_service-with-iam.html

that excludes E upvoted 1 times

😑 🌲 imvb88 1 year, 1 month ago

Selected Answer: CD

Encryption at transit = use SSL/TLS -> rule out A,B Encryption at rest = encryption on components -> keep C, D, E KMS always need a key policy, IAM is optional -> E out

-> C, D left, one for SNS, one for SQS. TLS: checked, encryption on components: checked upvoted 3 times

😑 💄 Lalo 1 year ago

Answer is BD SNS: AWS KMS, key policy, SQS: AWS KMS, Key policy upvoted 2 times

😑 🌲 imvb88 1 year, 1 month ago

https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-data-encryption.html

You can protect data in transit using Secure Sockets Layer (SSL) or client-side encryption. You can protect data at rest by requesting Amazon SQS to encrypt your messages before saving them to disk in its data centers and then decrypt them when the messages are received.

https://docs.aws.amazon.com/kms/latest/developerguide/key-policies.html

A key policy is a resource policy for an AWS KMS key. Key policies are the primary way to control access to KMS keys. Every KMS key must have exactly one key policy. The statements in the key policy determine who has permission to use the KMS key and how they can use it. You can als use IAM policies and grants to control access to the KMS key, but every KMS key must have a key policy. upvoted 1 times

😑 🌡 MarkGerwich 1 year, 2 months ago

CD B does not include encryption in transit. upvoted 3 times

😑 🌡 MssP 1 year, 2 months ago

in transit is included in D. With C, not include encrytion at rest.... Server-side will include it.

upvoted 1 times

😑 💄 Bofi 1 year, 2 months ago

That was my objection toward option B. CD cover both encryption at Rest and Server-Side_Encryption upvoted 1 times

😑 🌲 Maximus007 1 year, 2 months ago

ChatGPT returned AD as a correct answer) upvoted 1 times

😑 🌲 cegama543 1 year, 3 months ago

Selected Answer: BE

B: To encrypt data at rest, we can use a customer-managed key stored in AWS KMS to encrypt the SNS components.

E: To restrict access to the data and allow only authorized personnel to access the data, we can apply an IAM policy to restrict key usage to a set of authorized principals. We can also set a condition in the queue policy to allow only encrypted connections over TLS to encrypt data in transit. upvoted 2 times

😑 🛔 Karlos99 1 year, 3 months ago

Selected Answer: BD

For a customer managed KMS key, you must configure the key policy to add permissions for each queue producer and consumer. https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-key-management.html upvoted 3 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: BE

bebebe upvoted 1 times

😑 👗 [Removed] 1 year, 3 months ago

bdbdbdbd

All KMS keys must have a key policy. IAM policies are optional. upvoted 6 times

A company runs a web application that is backed by Amazon RDS. A new database administrator caused data loss by accidentally editing information in a database table. To help recover from this type of incident, the company wants the ability to restore the database to its state from 5 minutes before any change within the last 30 days.

Which feature should the solutions architect include in the design to meet this requirement?

- A. Read replicas
- B. Manual snapshots
- C. Automated backups
- D. Multi-AZ deployments

Correct Answer: C

Community vote distribution

C (100%)

😑 🌲 Uzbekistan 3 months, 1 week ago

Selected Answer: C

Amazon RDS provides automated backups, which can be configured to take regular snapshots of the database instance. By enabling automated backups and setting the retention period to 30 days, the company can ensure that it retains backups for up to 30 days. Additionally, Amazon RDS allows for point-in-time recovery within the retention period, enabling the restoration of the database to its state from any point within the last 30 days, including 5 minutes before any change. This feature provides the required capability to recover from accidental data loss incidents.

Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

Automated backups allow you to recover your database to any point in time within your specified retention period, which can be up to 35 days. The recovery process creates a new Amazon RDS instance with a new endpoint, and the process takes time proportional to the size of the database. Automated backups are enabled by default and occur daily during the backup window. This feature provides an easy and convenient wa to recover from data loss incidents such as the one described in the scenario.

upvoted 3 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: C

Option C, Automated backups, will meet the requirement. Amazon RDS allows you to automatically create backups of your DB instance. Automate backups enable point-in-time recovery (PITR) for your DB instance down to a specific second within the retention period, which can be up to 35 days. By setting the retention period to 30 days, the company can restore the database to its state from up to 5 minutes before any change within the last 30 days.

upvoted 3 times

😑 💄 joechen2023 12 months ago

I selected C as well, but still don't know how the automatic backup could have a copy 5 minutes before any change. AWS doc states "Automate backups occur daily during the preferred backup window."

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_WorkingWithAutomatedBackups.html.

I think the answer maybe A, as read replica will be kept sync and then restore from the read replica. could an expert help? upvoted 1 times

😑 🖀 TheFivePips 3 months, 2 weeks ago

Automated backups enable point-in-time recovery (PITR) for your DB instance down to a specific second within the retention period, which can be up to 35 days

upvoted 1 times

😑 🌲 awsgeek75 5 months, 1 week ago

"the company wants the ability to restore the database to its state from 5 minutes before any change" The automatic backup takes a backup every 5 minutes. This means it can restore the database to 5 minutes in the past. upvoted 1 times

😑 💄 gold4otas 1 year, 2 months ago

Selected Answer: C

C: Automated Backups

https://aws.amazon.com/rds/features/backup/ upvoted 2 times

😑 🌢 WherecanIstart 1 year, 2 months ago

Selected Answer: C

Automated Backups... upvoted 2 times

😑 🚨 [Removed] 1 year, 3 months ago

Selected Answer: C

cccccccc upvoted 1 times

A company's web application consists of an Amazon API Gateway API in front of an AWS Lambda function and an Amazon DynamoDB database. The Lambda function handles the business logic, and the DynamoDB table hosts the data. The application uses Amazon Cognito user pools to identify the individual users of the application. A solutions architect needs to update the application so that only users who have a subscription can access premium content.

Which solution will meet this requirement with the LEAST operational overhead?

A. Enable API caching and throttling on the API Gateway API.

B. Set up AWS WAF on the API Gateway API. Create a rule to filter users who have a subscription.

C. Apply fine-grained IAM permissions to the premium content in the DynamoDB table.

D. Implement API usage plans and API keys to limit the access of users who do not have a subscription.

Correct Answer: C							
Community vote distribution							
D (85%)	C (15%)						
Suru4Cloud (Highly Voted 🖬 9 months, 2 we	eks ago						
Selected Answer: D							
you to control access at the API level and d	ys is a straightforward way to restrict access to specific users or groups based on subscriptions. It allo doesn't require extensive changes to your existing architecture. This solution provides a clear and ions without complicating other parts of the application						
Selected Answer: C							
Chat GPT said:							
	sions to the premium content in the DynamoDB table," would likely involve the least operational						
	ou to control access at a very granular level, including specific actions (e.g., Getltem, Putltem) on						
	NS).						
individual resources (e.g., DynamoDB table Integration with Cognito: IAM policies can	es). be configured to allow access based on the identity of the user authenticated through Cognito. You ess to users with specific attributes or conditions, such as having a subscription.						

minimal changes to the existing application architecture. upvoted 1 times

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: C

C is correct as per the link and doc:

https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html#apigateway-usage-plans-best-practices

D: API keys cannot be used to limit access and this can only be done via methods defined in above link upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

I had to chose D but must have clicked C incorrectly. It is D as my explanation is about D not C! C is the wrong answer.

upvoted 1 times

😑 🌲 awsgeek75 5 months, 1 week ago

Also, option A is for performance and not for security option B, WAF cannot control access based on subscription without massive custom coding which will be a big operational overhead upvoted 1 times

😑 💄 lipi0035 6 months, 2 weeks ago

In the same document https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html if you scroll down, it says `Don't use API keys for authentication or authorization to control access to your APIs. If you have multiple APIs in a usage plan, a user with a valid API key for one API in that usage plan can access all APIs in that usage plan. Instead, to control access to your API, use an IAM role, a Lambda authorizer, or an Amazon Cognito user pool.`

In the same document at the bottom, it says "If you're using a developer portal to publish your APIs, note that all APIs in a given usage plan are subscribable, even if you haven't made them visible to your customers."

I go with C

upvoted 1 times

😑 🌲 awsgeek75 5 months, 1 week ago

https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html#apigateway-usage-plans-best-practices

Correct link upvoted 1 times

😑 🌲 TariqKipkemei 7 months, 4 weeks ago

Selected Answer: D

After you create, test, and deploy your APIs, you can use API Gateway usage plans to make them available as product offerings for your customers You can configure usage plans and API keys to allow customers to access selected APIs, and begin throttling requests to those APIs based on defined limits and quotas. These can be set at the API, or API method level.

https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-

plans.html#:~:text=Creating%20and%20using-,usage%20plans,-with%20API%20keys

upvoted 1 times

😑 🏝 marufxplorer 11 months, 3 weeks ago

D

Option D involves implementing API usage plans and API keys. By associating specific API keys with users who have a valid subscription, you can control access to the premium content.

upvoted 1 times

😑 🌲 kruasan 1 year, 1 month ago

Selected Answer: D

A. This would not actually limit access based on subscriptions. It helps optimize and control API usage, but does not address the core requirement. B. This could work by checking user subscription status in the WAF rule, but would require ongoing management of WAF and increases operationa overhead.

C. This is a good approach, using IAM permissions to control DynamoDB access at a granular level based on subscriptions. However, it would require managing IAM permissions which adds some operational overhead.

D. This option uses API Gateway mechanisms to limit API access based on subscription status. It would require the least amount of ongoing management and changes, minimizing operational overhead. API keys could be easily revoked/changed as subscription status changes. upvoted 3 times

😑 🌲 imvb88 1 year, 1 month ago

CD both possible but D is more suitable since it mentioned in https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html

A,B not relevant. upvoted 1 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: D

The solution that will meet the requirement with the least operational overhead is to implement API Gateway usage plans and API keys to limit access to premium content for users who do not have a subscription.

Option A is incorrect because API caching and throttling are not designed for authentication or authorization purposes, and it does not provide access control.

Option B is incorrect because although AWS WAF is a useful tool to protect web applications from common web exploits, it is not designed for authorization purposes, and it might require additional configuration, which increases the operational overhead.

Option C is incorrect because although IAM permissions can restrict access to data stored in a DynamoDB table, it does not provide a mechanism for limiting access to specific content based on the user subscription. Moreover, it might require a significant amount of additional IAM permissions configuration, which increases the operational overhead.

upvoted 3 times

😑 🌲 klayytech 1 year, 2 months ago

Selected Answer: D

To meet the requirement with the least operational overhead, you can implement API usage plans and API keys to limit the access of users who do not have a subscription. This way, you can control access to your API Gateway APIs by requiring clients to submit valid API keys with requests. You can associate usage plans with API keys to configure throttling and quota limits on individual client accounts.

upvoted 2 times

😑 👗 techhb 1 year, 3 months ago

answer is D ,if looking for least overhead https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html C will achieve it but operational overhead is high.

upvoted 2 times

😑 🌲 quentin17 1 year, 3 months ago

Selected Answer: D

Both C&D are valid solution

According to ChatGPT:

"Applying fine-grained IAM permissions to the premium content in the DynamoDB table is a valid approach, but it requires more effort in managing IAM policies and roles for each user, making it more complex and adding operational overhead." upvoted 1 times

😑 🌲 Karlos99 1 year, 3 months ago

Selected Answer: D

https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html upvoted 3 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: C

сссссссс

upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

"Fine-grained permissions" for only two groups of users, hell no. "IAM permissions" for customers, also no.

upvoted 1 times

A company is using Amazon Route 53 latency-based routing to route requests to its UDP-based application for users around the world. The application is hosted on redundant servers in the company's on-premises data centers in the United States, Asia, and Europe. The company's compliance requirements state that the application must be hosted on premises. The company wants to improve the performance and availability of the application.

What should a solutions architect do to meet these requirements?

A. Configure three Network Load Balancers (NLBs) in the three AWS Regions to address the on-premises endpoints. Create an accelerator by using AWS Global Accelerator, and register the NLBs as its endpoints. Provide access to the application by using a CNAME that points to the accelerator DNS.

B. Configure three Application Load Balancers (ALBs) in the three AWS Regions to address the on-premises endpoints. Create an accelerator by using AWS Global Accelerator, and register the ALBs as its endpoints. Provide access to the application by using a CNAME that points to the accelerator DNS.

C. Configure three Network Load Balancers (NLBs) in the three AWS Regions to address the on-premises endpoints. In Route 53, create a latency-based record that points to the three NLBs, and use it as an origin for an Amazon CloudFront distribution. Provide access to the application by using a CNAME that points to the CloudFront DNS.

D. Configure three Application Load Balancers (ALBs) in the three AWS Regions to address the on-premises endpoints. In Route 53, create a latency-based record that points to the three ALBs, and use it as an origin for an Amazon CloudFront distribution. Provide access to the application by using a CNAME that points to the CloudFront DNS.

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 Guru4Cloud (Highly Voted 🗃) 9 months, 2 weeks ago

Selected Answer: A

NLBs allow UDP traffic (ALBs don't support UDP)

Global Accelerator uses Anycast IP addresses and its global network to intelligently route users to the optimal endpoint Using NLBs as Global Accelerator endpoints provides improved availability and DDoS protection. upvoted 11 times

😑 👗 sandordini (Most Recent 🕗) 1 month, 4 weeks ago

Selected Answer: A

Non-HTTP, Massive performance: NLB, UDP: AWS Global Accelerator upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: A

Neither ALB (B+D) nor CloudFront (C+D) do support UDP. upvoted 4 times

😑 🌲 TariqKipkemei 7 months, 4 weeks ago

Selected Answer: A

UDP = NLB and Global Accelerator upvoted 2 times

E & live_reply_developers 11 months, 1 week ago

Selected Answer: A

NLB + GA support UDP/TCP

upvoted 3 times

😑 🌡 Gooniegoogoo 11 months, 2 weeks ago

good reference https://blog.cloudcraft.co/alb-vs-nlb-which-aws-load-balancer-fits-your-needs/ upvoted 2 times

😑 💄 lucdt4 1 year ago

Selected Answer: A

C - D: Cloudfront don't support UDP/TCP B: Global accelerator don't support ALB A is correct upvoted 4 times

E SkyZeroZx 1 year, 1 month ago

Selected Answer: A

UDP = NBL UDP = GLOBAL ACCELERATOR UPD NOT WORKING WITH CLOUDFRONT ANS IS A upvoted 4 times

😑 🌲 MssP 1 year, 2 months ago

Selected Answer: A

More discussions at: https://www.examtopics.com/discussions/amazon/view/51508-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 1 times

😑 💄 Grace83 1 year, 2 months ago

Why is C not correct - does anyone know? upvoted 2 times

😑 💄 MssP 1 year, 2 months ago

It could be valid but I think A is better. Uses the AWS global network to optimize the path from users to applications, improving the performance of TCP and UDP traffic

upvoted 1 times

😑 👗 Shrestwt 1 year, 1 month ago

Latency based routing is already using in the application, so AWS global network will optimize the path from users to applications. upvoted 1 times

😑 🏝 FourOfAKind 1 year, 3 months ago

Selected Answer: A

UDP == NLB Must be hosted on-premises != CloudFront upvoted 3 times

😑 🌲 imvb88 1 year, 1 month ago

actually CloudFront's origin can be on-premises. Source: https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/DownloadDistS3AndCustomOrigins.html#concept_CustomOrigin

"A custom origin is an HTTP server, for example, a web server. The HTTP server can be an Amazon EC2 instance or an HTTP server that you host somewhere else. "

upvoted 1 times

😑 🌲 [Removed] 1 year, 3 months ago

Selected Answer: A

aaaaaaaa upvoted 3 times

Question #368

What should the solutions architect do to accomplish this?

- A. Set an overall password policy for the entire AWS account.
- B. Set a password policy for each IAM user in the AWS account.
- C. Use third-party vendor software to set password requirements.

A (95%)

D. Attach an Amazon CloudWatch rule to the Create_newuser event to set the password with the appropriate requirements.

Correct Answer: A

Community vote distribution

5%

😑 👗 angel_marquina (Highly Voted 🖬) 8 months, 3 weeks ago

The question is for new users, answer A is not exact for that case. upvoted 7 times

😑 👗 lostmagnet001 (Highly Voted 🖬) 4 months ago

Selected Answer: A

i get confused, the question saids "NEW" users... if you apply this password policy it would affect all the users in the AWS account.... upvoted 6 times

😑 🌲 [Removed] [Most Recent 🕑] 1 week, 3 days ago

Selected Answer: B

Because its mentioned "all new users" upvoted 1 times

😑 👗 [Removed] 1 week, 3 days ago

Ignore the above, seems to be custom policy can help in the case, so A should be right upvoted 1 times

😑 🌲 TariqKipkemei 7 months, 4 weeks ago

Selected Answer: A

You can set a custom password policy on your AWS account to specify complexity requirements and mandatory rotation periods for your IAM users' passwords. When you create or change a password policy, most of the password policy settings are enforced the next time your users change their passwords. However, some of the settings are enforced immediately.

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_passwords_account-policy.html#:~:text=Setting%20an%20account-,password%20policy,-for%20IAM%20users upvoted 3 times

😑 💄 klayytech 1 year, 2 months ago

Selected Answer: A

To accomplish this, the solutions architect should set an overall password policy for the entire AWS account. This policy will apply to all IAM users i the account, including new users.

upvoted 3 times

😑 🌲 WherecanIstart 1 year, 2 months ago

Selected Answer: A

Set overall password policy ... upvoted 2 times

😑 🌲 kampatra 1 year, 2 months ago

Selected Answer: A

A is correct

upvoted 1 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: A

aaaaaaa

upvoted 4 times

Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS Batch to run the tasks as jobs. Schedule the jobs by using Amazon EventBridge (Amazon CloudWatch Events).

B. Convert the EC2 instance to a container. Use AWS App Runner to create the container on demand to run the tasks as jobs.

C. Copy the tasks into AWS Lambda functions. Schedule the Lambda functions by using Amazon EventBridge (Amazon CloudWatch Events).

D. Create an Amazon Machine Image (AMI) of the EC2 instance that runs the tasks. Create an Auto Scaling group with the AMI to run multiple copies of the instance.

Correct Answer: A				
Community vote distribution A (65%)	C (20%)	Other		

😑 🌲 fkie4 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C

question said "These tasks were written by different teams and have no common programming language", and key word "scalable". Only Lambda can fulfil these. Lambda can be done in different programming languages, and it is scalable

upvoted 10 times

😑 📥 wsdasdasdqwdaw 7 months, 4 weeks ago

AWS Batch - As a fully managed service, AWS Batch helps you to run batch computing workloads of any scale. AWS Batch automatically provisions compute resources and optimizes the workload distribution based on the quantity and scale of the workloads. With AWS Batch, there's no need to install or manage batch computing software, so you can focus your time on analyzing results and solving problems. https://docs.aws.amazon.com/batch/latest/userguide/what-is-batch.html ---> I am voting for A, C would have been OK if the time was within 1 minutes.

upvoted 4 times

😑 🏝 smgsi 1 year, 3 months ago

It's not because time limit of lambda is 15 minutes upvoted 8 times

😑 💄 FourOfAKind 1 year, 3 months ago

But the question states "several 1-hour tasks on a schedule", and the maximum runtime for Lambda is 15 minutes, so it can't be A. upvoted 28 times

😑 💄 FourOfAKind 1 year, 3 months ago

can't be C upvoted 7 times

🖃 🆀 **JTruong** 5 months, 1 week ago

Lambda can only execute job under 15 mins* so C can't be the answer upvoted 3 times

😑 👗 [Removed] (Highly Voted 🖝) 1 year, 3 months ago

Selected Answer: A

aaaaaaaa

upvoted 6 times

😑 🌡 fkie4 1 year, 3 months ago

A my S. show some reasons next time upvoted 13 times

😑 👗 foha2012 [Most Recent 🕑] 4 months, 2 weeks ago

Selected Answer: D

Answer = D

"performance and scalability while these tasks run on a single instance" They gave me a legacy application and want it to autoscale for performance They dont want it to run on a single EC2 instance. Shouldn't I make an AMI and provision multiple EC2 instances in an autoscaling group ? I could put an ALB in front of it. I wont have to deal with "uncommon programming languages" inside the application... Just a thought... upvoted 2 times

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: A

AWS Batch is for jobs running at schedule on EC2. so option A B is operational overhead C Lambda is 15 mins max execution D Scaling is not a requirement upvoted 4 times

😑 🌲 pentium75 5 months, 2 weeks ago

"Running on a schedule" = Batch Not C due Lambda < 15 min Not D, auto-scaling doesn't make sense for things running on a schedule upvoted 6 times

😑 🌲 meowruki 6 months, 2 weeks ago

Selected Answer: A

AWS Batch: AWS Batch is a fully managed service for running batch computing workloads. It dynamically provisions the optimal quantity and type of compute resources based on the volume and specific resource requirements of the batch jobs. It allows you to run tasks written in different programming languages with minimal operational overhead.

upvoted 3 times

😑 🌲 hungta 6 months, 3 weeks ago

Selected Answer: A

The tast working for hour but lambda function timeout is 15 minutes. So vote A. upvoted 1 times

😑 📥 youdelin 8 months ago

I know guys are stressed out trying to figure this exam out okay, but no matter what people say, with or without reasoning, at least put your moutl clean. Going like AAA is an issue, but talking shi* on him just because he didn't write down the reasoning is your fault. upvoted 1 times

😑 🖀 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: A

It can run heterogeneous workloads and tasks without needing to convert them to a common format. AWS Batch manages the underlying compute resources - no need to manage containers, Lambda functions or Auto Scaling groups. upvoted 5 times

😑 💄 zjcorpuz 10 months, 2 weeks ago

AWS Lambda function can only be run for 15 mins upvoted 1 times

😑 🌲 jaydesai8 11 months, 1 week ago

Selected Answer: A

maximum runtime for Lambda is 15 minutes, hence A upvoted 2 times

😑 🌲 antropaws 1 year ago

Selected Answer: A I also go with A. upvoted 1 times

😑 💄 omoakin 1 year ago

C. Copy the tasks into AWS Lambda functions. Schedule the Lambda functions by using Amazon EventBridge (Amazon CloudWatch Events) upvoted 1 times

😑 💄 ruqui 1 year ago

wrong, Lambda maximum runtime is 15 minutes and the tasks run for an hour upvoted 3 times

😑 🌡 KMohsoe 1 year ago

Selected Answer: A

B and D out! A and C let's think! AWS Lambda functions are time limited. So, Option A upvoted 1 times

😑 🌡 lucdt4 1 year ago

AAAAAAAAAAAAAAAA because lambda only run within 15 minutes upvoted 2 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: A

Answer is A.

Could have been C but AWS Lambda functions can be only configured to run up to 15 minutes per execution. While the task in question need an 1hour to run,

upvoted 4 times

😑 💄 luisgu 1 year, 1 month ago

Selected Answer: D

question is asking for the LEAST operational overhead. With batch, you have to create the compute environment, create the job queue, create the job definition and create the jobs --> more operational overhead than creating an ASG upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Things 'running on a schedule' = Batch, not autoscaling upvoted 1 times

A company runs a public three-tier web application in a VPC. The application runs on Amazon EC2 instances across multiple Availability Zones. The EC2 instances that run in private subnets need to communicate with a license server over the internet. The company needs a managed solution that minimizes operational maintenance.

Which solution meets these requirements?

A. Provision a NAT instance in a public subnet. Modify each private subnet's route table with a default route that points to the NAT instance.

B. Provision a NAT instance in a private subnet. Modify each private subnet's route table with a default route that points to the NAT instance.

C. Provision a NAT gateway in a public subnet. Modify each private subnet's route table with a default route that points to the NAT gateway.

D. Provision a NAT gateway in a private subnet. Modify each private subnet's route table with a default route that points to the NAT gateway.

Correct Answer: C

Community vote distribution

C (100%)

😑 👗 UnluckyDucky (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C

"The company needs a managed solution that minimizes operational maintenance"

Watch out for NAT instances vs NAT Gateways.

As the company needs a managed solution that minimizes operational maintenance - NAT Gateway is a public subnet is the answer. upvoted 8 times

😑 🌲 von_himmlen (Most Recent 🕗) 1 month ago

С

https://docs.aws.amazon.com/appstream2/latest/developerguide/managing-network-internet-NAT-gateway.html ...and a NAT gateway in a public subnet.

upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

This meets the requirements for a managed, low maintenance solution for private subnets to access the internet:

NAT gateway provides automatic scaling, high availability, and fully managed service without admin overhead. Placing the NAT gateway in a public subnet with proper routes allows private instances to use it for internet access. Minimal operational maintenance compared to NAT instances.

upvoted 2 times

😑 🏝 Guru4Cloud 9 months, 2 weeks ago

No good: NAT instances (A, B) require more hands-on management.

Placing a NAT gateway in a private subnet (D) would not allow internet access. upvoted 3 times

😑 💄 lucdt4 1 year ago

C Nat gateway can't deploy in a private subnet. upvoted 4 times

😑 💄 TariqKipkemei 1 year ago

Selected Answer: C

minimizes operational maintenance = NGW upvoted 1 times

😑 🌲 Wherecanistart 1 year, 2 months ago

Selected Answer: C

C..provision NGW in Public Subnet

upvoted 2 times

😑 🌲 cegama543 1 year, 3 months ago

Selected Answer: C

ccccc is the best

upvoted 1 times

😑 🌲 [Removed] 1 year, 3 months ago

Selected Answer: C

cccccccc upvoted 2 times

Which combination of actions will meet this requirement with the LEAST operational overhead? (Choose two.)

A. Use a Kubernetes plugin that uses the customer managed key to perform data encryption.

B. After creation of the EKS cluster, locate the EBS volumes. Enable encryption by using the customer managed key.

C. Enable EBS encryption by default in the AWS Region where the EKS cluster will be created. Select the customer managed key as the default key.

D. Create the EKS cluster. Create an IAM role that has a policy that grants permission to the customer managed key. Associate the role with the EKS cluster.

E. Store the customer managed key as a Kubernetes secret in the EKS cluster. Use the customer managed key to encrypt the EBS volumes.

Correct Answer: AE

Community vote distribution CD (56%)

BD (41%)

😑 🛔 asoli (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: CD

https://docs.aws.amazon.com/eks/latest/userguide/managed-node-

groups.html#:~:text=encrypted%20Amazon%20EBS%20volumes%20without%20using%20a%20launch%20template%2C%20encrypt%20all%20nev%20Amazon%20EBS%20volumes%20created%20in%20your%20account.

upvoted 14 times

😑 💄 bujuman 2 months, 3 weeks ago

If you want to encrypt Amazon EBS volumes for your nodes, you can deploy the nodes using a launch template. To deploy managed nodes with encrypted Amazon EBS volumes without using a launch template, encrypt all new Amazon EBS volumes created in your account. For more information, see Encryption by default in the Amazon EC2 User Guide for Linux Instances. upvoted 1 times

😑 👗 imvb88 (Highly Voted 🖬) 1 year, 1 month ago

Selected Answer: BD

Quickly rule out A (which plugin? > overhead) and E because of bad practice

Among B,C,D: B and C are functionally similar > choice must be between B or C, D is fixed

Between B and C: C is out since it set default for all EBS volume in the region, which is more than required and even wrong, say what if other EBS volumes of other applications in the region have different requirement? upvoted 10 times

😑 🌲 NSA_Poker 2 weeks ago

(C) is correct; the EBS volumes of other applications in the region will not be affected bc an IAM role will limit the encryption key to the EKS cluster.

upvoted 1 times

jjcode Most Recent ③ 3 months, 3 weeks ago this one is going on my skip list upvoted 7 times

Mahmoudddddddd 2 months, 3 weeks ago Don't it came for me in my exam today xd upvoted 3 times

😑 🌲 jaswantn 4 months ago

If question is giving a requirement related to a particular case and asking to encrypt all data at rest; it is clear that encryption is for this case only and not for other projects in entire region. so option B is more appropriate along with option D. upvoted 1 times

🖯 🎍 frmrkc 4 months, 1 week ago

Selected Answer: CD

It says: 'The company must encrypt ALL data at rest', so there is nothing wrong with 'enabling EBS encryption by default' . C & D

upvoted 3 times

😑 🌲 upliftinghut 5 months ago

Selected Answer: BD

B&D are correct. C is wrong because when you turn on encryption by defaul, AWS uses its own key while the requirement is using Customer key.

Detail is here: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html#encryption-by-default upvoted 1 times

🖃 🎍 pentium75 5 months, 2 weeks ago

Selected Answer: BD

Not A (avoid 3rd party plugins when there are native services) Not C ("encryption by default" would impact other services) Not E (Keys belong in KMS, not in EKS cluster) upvoted 2 times

😑 🎍 awsgeek75 5 months, 1 week ago

"The company must encrypt all data at rest by using a customer managed key that is stored in AWS Key Management Service (AWS KMS)."

I am just a bit concerned that the question does not put any limits on not encrypting all the EBS by default in the account. Both B and C can work. C is a hack but it is definitely LEAST operational overhead. Also, we don't know if there are other services or not that may be impacted. What do you think?

upvoted 1 times

🖃 👗 Marco_St 5 months, 4 weeks ago

Selected Answer: CD

EBS encryption is set regionally. AWS account is global but it does not mean EBS encryption is enable by default at account level. default EBS encryption is a regional setting within your AWS account. Enabling it in a specific region ensures that all new EBS volumes created in that region ar encrypted by default, using either the default AWS managed key or a customer managed key that you specify. upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

"Enabling it in a specific region ensures that all new EBS volumes created in that region are encrypted by default" which is not what we want. W want to encrypt the EBS volumes used by this EKS cluster, NOT "all new EBS volumes created in that region." upvoted 1 times

🖃 🎍 maudsha 7 months, 2 weeks ago

Selected Answer: CD

IF you need to encrypt an unencrypted volume,

- Create an EBS snapshot of the volume
- Encrypt the EBS snapshot (using copy)
- Create new EBS volume from the snapshot (the volume will also be encrypted)

so it has an operational overhead.

So assuming they won't use this account for anything else we can use C. Enable EBS encryption by default in the AWS Region where the EKS cluste will be created. Select the customer managed key as the default key.

upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

"Assuming they won't use this account for anything else" how could we assume that? upvoted 1 times

😑 🌲 TariqKipkemei 7 months, 4 weeks ago

Selected Answer: CD

Option D is required wither way.

Technically both option B and C would work, but with B you would have to enable encryption node by node, while with option C provides a onetime action of enabling encryption on all nodes.

The requirement is the option with LEAST operational overhead.

upvoted 3 times

🖃 👗 pentium75 5 months, 2 weeks ago

B created some deployment work, but NOT "operational (!) overhead" once it's deployed. C enables encryption by default for all new EBS volumes which is not what we want.

upvoted 1 times

E & Guru4Cloud 9 months, 2 weeks ago

Selected Answer: CD

These options allow EBS encryption with the customer managed KMS key with minimal operational overhead:

C) Setting the KMS key as the regional EBS encryption default automatically encrypts new EKS node EBS volumes.

D) The IAM role grants the EKS nodes access to use the key for encryption/decryption operations. upvoted 1 times

E **aydesai8** 11 months, 1 week ago

Selected Answer: CD

C - enable EBS encryption by default in a region -https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html

D - Provides key access permission just to the EKS cluster without changing broader IAM permissions upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

We're not asked to enable EBS encryption by default. upvoted 1 times

😑 📥 pedroso 1 year ago

Selected Answer: BD

I was in doubt between B and C.

You can't "Enable EBS encryption by default in the AWS Region". Enable EBS encryption by default is only possible at Account level, not Region. B is the right option once you can enable encryption on the EBS volume with KMS and custom KMS. upvoted 1 times

😑 💄 antropaws 11 months, 3 weeks ago

Not accurate: "Encryption by default is a Region-specific setting": https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html#encryption-by-default upvoted 3 times

🖃 🎍 pentium75 5 months, 2 weeks ago

Still C is wrong because "encryption by default" is not what we want. upvoted 1 times

😑 👗 jayce5 1 year ago

Selected Answer: CD

It's C and D. I tried it in my AWS console. C seems to have fewer operations ahead compared to B. upvoted 5 times

😑 🌲 nauman001 1 year ago

B and C.

Unless the key policy explicitly allows it, you cannot use IAM policies to allow access to a KMS key. Without permission from the key policy, IAM policies that allow permissions have no effect.

upvoted 1 times

😑 🌡 kruasan 1 year, 1 month ago

Selected Answer: BD

B. Manually enable encryption on the intended EBS volumes after ensuring no default changes. Requires manually enabling encryption on the nodes but ensures minimum impact.

D. Create an IAM role with access to the key to associate with the EKS cluster. This provides key access permission just to the EKS cluster without changing broader IAM permissions.

upvoted 2 times

😑 🆀 kruasan 1 year, 1 month ago

- A. Using a custom plugin requires installing, managing and troubleshooting the plugin. Significant operational overhead.
- C. Modifying the default region encryption could impact other resources with different needs. Should be avoided if possible.
- E. Managing Kubernetes secrets for key access requires operations within the EKS cluster. Additional operational complexity. upvoted 2 times

😑 🆀 neosis91 1 year, 1 month ago

Selected Answer: BC B&C B&C B&C B&C B&C B&C B&C B&C B&C upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

Why enable encryption for individual volumes PLUS enable encryption by default? upvoted 1 times

A company wants to migrate an Oracle database to AWS. The database consists of a single table that contains millions of geographic information systems (GIS) images that are high resolution and are identified by a geographic code.

When a natural disaster occurs, tens of thousands of images get updated every few minutes. Each geographic code has a single image or row that is associated with it. The company wants a solution that is highly available and scalable during such events.

Which solution meets these requirements MOST cost-effectively?

A. Store the images and geographic codes in a database table. Use Oracle running on an Amazon RDS Multi-AZ DB instance.

B. Store the images in Amazon S3 buckets. Use Amazon DynamoDB with the geographic code as the key and the image S3 URL as the value.

C. Store the images and geographic codes in an Amazon DynamoDB table. Configure DynamoDB Accelerator (DAX) during times of high load.

D. Store the images in Amazon S3 buckets. Store geographic codes and image S3 URLs in a database table. Use Oracle running on an Amazon RDS Multi-AZ DB instance.

Correct Answer: *B*

Community vote distribution B (66%)

D (34%)

😑 🆀 Wayne23Fang (Highly Voted 🖬) 9 months ago

Selected Answer: B

Amazon prefers people to move from Oracle to its own services like DynamoDB and S3. upvoted 12 times

😑 👗 Karlos99 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: D

The company wants a solution that is highly available and scalable upvoted 8 times

😑 🌲 [Removed] 1 year, 2 months ago

But DynamoDB is also highly available and scalable https://aws.amazon.com/dynamodb/faqs/#:~:text=DynamoDB%20automatically%20scales%20throughput%20capacity,high%20availability%20 nd%20data%20durability.

upvoted 3 times

😑 🌲 pbpally 1 year, 1 month ago

Yes but has a size limit at 400kb so theoretically it could store images but it's not a plausible solution. upvoted 1 times

😑 💄 ruqui 1 year ago

It doesn't matter the size limit of DynamoDB!!!! The images are saved in S3 buckets. Right answer is B upvoted 6 times

😑 🏝 jaydesai8 11 months, 1 week ago

but would it be easy and cost-effective to migrate Oracle (relational db) to (Dynamodb)NoSQL? upvoted 5 times

😑 💄 pentium75 5 months, 2 weeks ago

Yes because it's a single table with two records, for which Oracle or any relation database has been a bad choice in the first place. upvoted 3 times

😑 👗 upliftinghut Most Recent 🕐 4 months, 2 weeks ago

Selected Answer: B

DynamoDB with its HA and built-in scalability. The nature of the table also resonates with NoSQL than SQL DB such as Oracle. Only 1 table so migration is just a script from Oracle to DynamoDB

D is workable but more expensive with Oracle licenses and other setups for HA and scalability upvoted 2 times

😑 🌲 upliftinghut 4 months, 2 weeks ago

HA & built-in scalability of Amazon DynamoDB :

https://aws.amazon.com/dynamodb/features/#:~:text=Amazon%20DynamoDB%20is%20a%20fully,for%20the%20most%20demanding%20app cations.

upvoted 2 times

□ ▲ awsgeek75 5 months, 1 week ago

Selected Answer: B

A puts images in Oracle, not a good idea

C DAX is not going to help with images

D It is doable but RDS on multi AZ does not give you more performance or write scalability. It gives more availability and read scalability which is not required here.

B works as Geographic code is the key in DynamoDB and S3 image URL is the data so DynamoDB can handle tens of thousands such record and S can scale for writing

upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: B

They are currently using Oracle, but only for one simple table with a single key-value pair. This is a typical use case for a NoSQL database like DynamoDB (and whoever decided to use Oracle for this in the first place should be fired). Oracle is expensive as hell, so options A and D might work but are surely not cost-effective. C won't work because the images are too big for the database. Leaves B which would be the ideal solution and meet the availability and scalability requirements.

upvoted 5 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

For D - Oracle is not cheap as well. RDS with Oracle vs DynamoDB, I would go for pure AWS provided option. In each exam there is a lot of marketing => B

upvoted 2 times

😑 🌲 jubolano 7 months, 2 weeks ago

Selected Answer: D Cost effective, D

upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

How is Oracle more cost effective than other options? upvoted 1 times

😑 🌲 wsdasdasdqwdaw 7 months, 4 weeks ago

B or D, but the question is MOST cost-effectively DynamoDB is more expensive than RDS, I am going for D upvoted 2 times

😑 💄 gouranga45 8 months, 2 weeks ago

Selected Answer: B

Answer is B, DynamoDB is Highly available and scalable upvoted 1 times

😑 🌲 baba365 8 months, 3 weeks ago

A single table in a relational db can have items that are related ? e.g. 'select * from Faculty where department_id in (10, 20) and dept_name = AWS' In the sql query example above, * means all and Faculty is name of the table. upvoted 1 times

😑 🌲 Eminenza22 9 months, 2 weeks ago

Selected Answer: B

B option offers a cost-effective solution for storing and accessing high-resolution GIS images during natural disasters. Storing the images in Amazon S3 buckets provides scalable and durable storage, while using Amazon DynamoDB allows for quick and efficient retrieval of images based on geographic codes. This solution leverages the strengths of both S3 and DynamoDB to meet the requirements of high availability, scalability, and cost-effectiveness.

upvoted 1 times

😑 💄 cd93 10 months ago

Selected Answer: B

What were the company thinking using the most expensive DB on the planet FOR ONE SINGLE TABLE??? Migrate a single table from SQL to NoSQL should be easy enough I guess... upvoted 2 times

😑 💄 vini15 10 months, 3 weeks ago

Should be D.

the question says company wants to migrate oracle to AWS. Oracle is a relational db hence RDS makes more sense whereas Dynamodb is non relational db.

upvoted 3 times

E **Pentium75** 5 months, 2 weeks ago

But relational DB does not make sense for the use case. It's a single table. upvoted 1 times

😑 💄 iBanan 10 months, 4 weeks ago

I hate these questions:) I can't choose between B and D upvoted 6 times

😑 👗 ces_9999 11 months ago

Guys the answer is B the oracle database only has one table without any relationships so why we should use a relational database in the first place, second we are storing the images in S3 not in the database why not use this alongside dynamo upvoted 5 times

😑 👗 Kp88 10 months, 2 weeks ago

You can't do migration of Oracle to Dynmodb without SCT. I am not the DB guy but since its saying oracle I would go with D otherwise B make: more sense if a company is starting out from scratch. upvoted 1 times

😑 💄 Kp88 10 months, 2 weeks ago

Actually now that I think about it , B sounds ok as well. Company just need to use SCT and that would be more cost effective. upvoted 1 times

😑 🌲 joehong 12 months ago

Selected Answer: D

"A company wants to migrate an Oracle database to AWS" upvoted 2 times

😑 💄 pentium75 5 months, 2 weeks ago

Yeah, per my understanding that doesn't implicate that the destination must be an Oracle database. upvoted 1 times

😑 👗 secdgs 12 months ago

D: Wrorng

if you caluate License Oracle Database, It is not cost-effectively. Multi-AZ is not scalable and if you set scalable, you need more license for Oracle database.

upvoted 2 times

Question #373

A company has an application that collects data from IoT sensors on automobiles. The data is streamed and stored in Amazon S3 through Amazon Kinesis Data Firehose. The data produces trillions of S3 objects each year. Each morning, the company uses the data from the previous 30 days to retrain a suite of machine learning (ML) models.

Four times each year, the company uses the data from the previous 12 months to perform analysis and train other ML models. The data must be available with minimal delay for up to 1 year. After 1 year, the data must be retained for archival purposes.

Which storage solution meets these requirements MOST cost-effectively?

A. Use the S3 Intelligent-Tiering storage class. Create an S3 Lifecycle policy to transition objects to S3 Glacier Deep Archive after 1 year.

B. Use the S3 Intelligent-Tiering storage class. Configure S3 Intelligent-Tiering to automatically move objects to S3 Glacier Deep Archive after 1 year.

C. Use the S3 Standard-Infrequent Access (S3 Standard-IA) storage class. Create an S3 Lifecycle policy to transition objects to S3 Glacier Deep Archive after 1 year.

D. Use the S3 Standard storage class. Create an S3 Lifecycle policy to transition objects to S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days, and then to S3 Glacier Deep Archive after 1 year.

Correct Answer: D

Community vote distribution

D (91%)

6%

😑 👗 UnluckyDucky (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: D

Access patterns is given, therefore D is the most logical answer.

Intelligent tiering is for random, unpredictable access. upvoted 12 times

😑 💄 ealpuche 1 year, 1 month ago

You are missing: <<The data must be available with minimal delay for up to 1 year. After one year, the data must be retained for archival purposes.>> You are secure that data after 1 year is not accessible anymore. upvoted 1 times

□ ▲ jjcode Most Recent ② 3 months, 4 weeks ago

I dont get how its A

1. Each morning, the company uses the data from the previous 30 days

2. Four times each year, the company uses the data from the previous 12 months to perform analysis and train other ML models

3. The data must be available with minimal delay for up to 1 year. After 1 year, the data must be retained for archival purposes

The data ingestion happens 4 times a year, that means that after the initial 30 days it still needs to be pulled 3 more times, why would you put the data in standard infrequent if you were going to use it 3 more times and speed is a requirement? Makes more sense to put it in S3 standard, or intelligent then straight to glacier.

upvoted 1 times

😑 🌲 upliftinghut 4 months, 2 weeks ago

Selected Answer: D

Clear access pattern. data in Standard-Infrequent Access is for data requires rapid access when needed upvoted 1 times

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: D

A and B, Intelligent Tiering cannot be configured. It is managed by AWS. C SIA does not allow immediate access for "each morning" D is best for 30 day standard access, SIA after 30 days and archive after 1 year upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: D

See reasoning below, just accidentally voted A upvoted 1 times

😑 🎍 pentium75 5 months, 2 weeks ago

Selected Answer: A

The data is used every day (typical use case for Standard) for 30 days, for the remaining 12 months it is used 3 or 4 times (typical use case for IA), after 12 months it is not used at all but must be kept (typical use case for Glacier Deep Archive). upvoted 1 times

😑 👗 pentium75 5 months, 2 weeks ago

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Sorry, D!!!!!!!! Not A!!!! D!
 upvoted 3 times
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😑 👗 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: D

This option optimizes costs while meeting the data access requirements:

Store new data in S3 Standard for first 30 days of frequent access Transition to S3 Standard-IA after 30 days for infrequent access up to 1 year Archive to Glacier Deep Archive after 1 year for long-term archival upvoted 2 times

😑 🏝 TariqKipkemei 1 year ago

Selected Answer: D

First 30 days data accessed every morning = S3 Standard Beyond 30 days data accessed quarterly = S3 Standard-Infrequent Access Beyond 1 year data retained = S3 Glacier Deep Archive upvoted 4 times

😑 🏝 ealpuche 1 year, 1 month ago

Selected Answer: A

Option A meets the requirements most cost-effectively. The S3 Intelligent-Tiering storage class provides automatic tiering of objects between the S3 Standard and S3 Standard-Infrequent Access (S3 Standard-IA) tiers based on changing access patterns, which helps optimize costs. The S3 Lifecycle policy can be used to transition objects to S3 Glacier Deep Archive after 1 year for archival purposes. This solution also meets the requirement for minimal delay in accessing data for up to 1 year. Option B is not cost-effective because it does not include the transition of data to S3 Glacier Deep Archive after 1 year. Option C is not the best solution because S3 Standard-IA is not designed for long-term archival purposes and incurs higher storage costs. Option D is also not the most cost-effective solution as it transitions objects to the S3 Standard-IA tier after 30 days, which is unnecessary for the requirement to retrain the suite of ML models each morning using data from the previous 30 days.

upvoted 1 times

😑 🆀 pentium75 5 months, 2 weeks ago

I can't follow. The data is used every day (typical use case for Standard) for 30 days, for the remaining 12 months it is used 3 or 4 times (typical use case for IA), after 12 months it is not used at all but must be kept (typical use case for Glacier Deep Archive). upvoted 2 times

🖃 🏜 KAUS2 1 year, 3 months ago

Selected Answer: D

Agree with UnluckyDucky, the correct option is D upvoted 1 times

😑 🆀 fkie4 1 year, 3 months ago

Selected Answer: D

Should be D. see this: https://www.examtopics.com/discussions/amazon/view/68947-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 2 times

🖃 🆀 Nithin1119 1 year, 3 months ago

Selected Answer: B Bbbbbbbbb upvoted 1 times

🖃 🌡 fkie4 1 year, 3 months ago hello!!??

upvoted 2 times

E **[Removed]** 1 year, 3 months ago

Selected Answer: D

dddddd

upvoted 4 times

😑 💄 [Removed] 1 year, 3 months ago

D because:

- First 30 days- data access every morning (predictable and frequently) S3 standard
- After 30 days, accessed 4 times a year S3 infrequently access
- Data preserved- S3 Gllacier Deep Archive

upvoted 8 times

A company is running several business applications in three separate VPCs within the us-east-1 Region. The applications must be able to communicate between VPCs. The applications also must be able to consistently send hundreds of gigabytes of data each day to a latency-sensitive application that runs in a single on-premises data center.

A solutions architect needs to design a network connectivity solution that maximizes cost-effectiveness.

Which solution meets these requirements?

A. Configure three AWS Site-to-Site VPN connections from the data center to AWS. Establish connectivity by configuring one VPN connection for each VPC.

B. Launch a third-party virtual network appliance in each VPC. Establish an IPsec VPN tunnel between the data center and each virtual appliance.

C. Set up three AWS Direct Connect connections from the data center to a Direct Connect gateway in us-east-1. Establish connectivity by configuring each VPC to use one of the Direct Connect connections.

D. Set up one AWS Direct Connect connection from the data center to AWS. Create a transit gateway, and attach each VPC to the transit gateway. Establish connectivity between the Direct Connect connection and the transit gateway.

Correct Answer: D

Community vote distribution

D (100%)

😑 👗 TariqKipkemei (Highly Voted 🖬) 7 months, 4 weeks ago

Selected Answer: D

AWS Transit Gateway connects your Amazon Virtual Private Clouds (VPCs) and on-premises networks through a central hub. This connection simplifies your network and puts an end to complex peering relationships. Transit Gateway acts as a highly scalable cloud router—each new connection is made only once.

https://aws.amazon.com/transit-gateway/#:~:text=AWS-,Transit%20Gateway,-connects%20your%20Amazon upvoted 5 times

😑 👗 upliftinghut (Most Recent 🕐) 4 months, 2 weeks ago

Selected Answer: D

AWS Direct connect is costly but the saving comes from less data transfer cost with Direct Connect and Transit gateway upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: D

This option leverages a single Direct Connect for consistent, private connectivity between the data center and AWS. The transit gateway allows eac VPC to share the Direct Connect while keeping the VPCs isolated. This provides a cost-effective architecture to meet the requirements. upvoted 4 times

😑 📥 alexandercamachop 1 year ago

Selected Answer: D

Transit GW, is a hub for connecting all VPCs.

Direct Connect is expensive, therefor only 1 of them connected to the Transit GW (Hub for all our VPCs that we connect to it) upvoted 3 times

😑 🌡 KMohsoe 1 year ago

Selected Answer: D

Option D

upvoted 3 times

😑 💄 Sivasaa 1 year, 1 month ago

Can someone tell why option C will not work here upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Using multiple Site-to-Site VPNs (A) or Direct Connects (C) incurs higher costs without providing significant benefits. upvoted 1 times

😑 💄 jdamian 1 year, 1 month ago

cost-effectiveness, 3 DC are more than 1 (more expensive). There is no need to connect more than 1 DC. upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

And besides the cost, C does not allow the applications "to communicate between VPCs". upvoted 1 times

😑 🛔 SkyZeroZx 1 year, 1 month ago

Selected Answer: D

cost-effectiveness D upvoted 1 times

😑 💄 WherecanIstart 1 year, 2 months ago

Selected Answer: D

Transit Gateway will achieve this result.. upvoted 3 times

😑 🌲 Karlos99 1 year, 3 months ago

Selected Answer: D

maximizes cost-effectiveness upvoted 2 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: D

dddddddd upvoted 2 times

Question #375

An ecommerce company is building a distributed application that involves several serverless functions and AWS services to complete orderprocessing tasks. These tasks require manual approvals as part of the workflow. A solutions architect needs to design an architecture for the order-processing application. The solution must be able to combine multiple AWS Lambda functions into responsive serverless applications. The solution also must orchestrate data and services that run on Amazon EC2 instances, containers, or on-premises servers.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS Step Functions to build the application.

B. Integrate all the application components in an AWS Glue job.

C. Use Amazon Simple Queue Service (Amazon SQS) to build the application.

D. Use AWS Lambda functions and Amazon EventBridge events to build the application.

Correct Answer: *B*

Community vote distribution

A (100%)

😑 🌲 kinglong12 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

AWS Step Functions is a fully managed service that makes it easy to build applications by coordinating the components of distributed applications and microservices using visual workflows. With Step Functions, you can combine multiple AWS Lambda functions into responsive serverless applications and orchestrate data and services that run on Amazon EC2 instances, containers, or on-premises servers. Step Functions also allows fo manual approvals as part of the workflow. This solution meets all the requirements with the least operational overhead.

upvoted 13 times

😑 💄 COTIT (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: A

Approval is explicit for the solution. -> "A common use case for AWS Step Functions is a task that requires human intervention (for example, an approval process). Step Functions makes it easy to coordinate the components of distributed applications as a series of steps in a visual workflow called a state machine. You can quickly build and run state machines to execute the steps of your application in a reliable and scalable fashion. (https://aws.amazon.com/pt/blogs/compute/implementing-serverless-manual-approval-steps-in-aws-step-functions-and-amazon-api-gateway/)" upvoted 5 times

😑 🛔 TariqKipkemei (Most Recent 🕐) 7 months, 4 weeks ago

Selected Answer: A

involves several serverless functions and AWS services, require manual approvals as part of the workflow, combine the Lambda functions into responsive serverless applications, orchestrate data and services = AWS Step Functions upvoted 3 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: A

AWS Step Functions allow you to easily coordinate multiple Lambda functions and services into serverless workflows with visual workflows. Step Functions are designed for building distributed applications that combine services and require human approval steps.

Using Step Functions provides a fully managed orchestration service with minimal operational overhead. upvoted 5 times

😑 L capino 10 months ago

Selected Answer: A

Serverless && workflow service that need human approval:...step functions upvoted 2 times

😑 🌡 BeeKayEnn 1 year, 2 months ago

Key: Distributed Application Processing, Microservices orchestration (Orchestrate Data and Services) A would be the best fit.

AWS Step Functions is a visual workflow service that helps developers use AWS services to build distributed applications, automate processes, orchestrate microservices, and create data and machine learning (ML) pipelines.

Reference: https://aws.amazon.com/step-functions/#:~:text=AWS%20Step%20Functions%20is%20a,machine%20learning%20(ML)%20pipelines. upvoted 3 times

E & ktulu2602 1 year, 3 months ago

Selected Answer: A

Option A: Use AWS Step Functions to build the application.

AWS Step Functions is a serverless workflow service that makes it easy to coordinate distributed applications and microservices using visual workflows. It is an ideal solution for designing architectures for distributed applications that involve multiple AWS services and serverless functions as it allows us to orchestrate the flow of our application components using visual workflows. AWS Step Functions also integrates with other AWS services like AWS Lambda, Amazon EC2, and Amazon ECS, and it has built-in error handling and retry mechanisms. This option provides a serverless solution with the least operational overhead for building the application.

Which solution will resolve this issue with the LEAST operational overhead?

A. Create a proxy in RDS Proxy. Configure the users' applications to use the DB instance through RDS Proxy.

B. Deploy Amazon ElastiCache for Memcached between the users' applications and the DB instance.

C. Migrate the DB instance to a different instance class that has higher I/O capacity. Configure the users' applications to use the new DB instance.

D. Configure Multi-AZ for the DB instance. Configure the users' applications to switch between the DB instances.

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 TariqKipkemei (Highly Voted 🖬) 7 months, 4 weeks ago

Selected Answer: A

database connection rejection errors = RDS Proxy upvoted 5 times

😑 💄 Guru4Cloud [Most Recent 🕑] 9 months, 2 weeks ago

Selected Answer: A

RDS Proxy provides a proxy layer that pools and shares database connections to improve scalability. This allows the proxy to handle connection spikes to the database gracefully.

Using RDS Proxy requires minimal operational overhead - just create the proxy and reconfigure applications to use it. No code changes needed. upvoted 3 times

😑 📥 antropaws 1 year ago

Wait, why not B????? upvoted 2 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

ElastiCache (B) and larger instance type (C) help performance but don't resolve connection issues. upvoted 3 times

😑 🌲 live_reply_developers 11 months, 1 week ago

Amazon ElastiCache tends to have a lower operational overhead compared to Amazon RDS Proxy. BUT we already have " Amazon RDS for MySQL DB instance"

upvoted 1 times

😑 上 Guru4Cloud 9 months, 2 weeks ago

ElastiCache (B) and larger instance type (C) help performance but don't resolve connection issues. upvoted 1 times

😑 💄 roxx529 1 year ago

To reduce application failures resulting from database connection timeouts, the best solution is to enable RDS Proxy on the RDS DB instances upvoted 1 times

😑 👗 COTIT 1 year, 2 months ago

Selected Answer: A

Many applications, including those built on modern serverless architectures, can have a large number of open connections to the database server and may open and close database connections at a high rate, exhausting database memory and compute resources. Amazon RDS Proxy allows applications to pool and share connections established with the database, improving database efficiency and application scalability. (https://aws.amazon.com/pt/rds/proxy/) upvoted 3 times

E **ktulu2602** 1 year, 3 months ago

Selected Answer: A

The correct solution for this scenario would be to create a proxy in RDS Proxy. RDS Proxy allows for managing thousands of concurrent database connections, which can help reduce connection errors. RDS Proxy also provides features such as connection pooling, read/write splitting, and

retries. This solution requires the least operational overhead as it does not involve migrating to a different instance class or setting up a new cache layer. Therefore, option A is the correct answer.

Question #377

Topic 1

A company recently deployed a new auditing system to centralize information about operating system versions, patching, and installed software for Amazon EC2 instances. A solutions architect must ensure all instances provisioned through EC2 Auto Scaling groups successfully send reports to the auditing system as soon as they are launched and terminated.

Which solution achieves these goals MOST efficiently?

A. Use a scheduled AWS Lambda function and run a script remotely on all EC2 instances to send data to the audit system.

B. Use EC2 Auto Scaling lifecycle hooks to run a custom script to send data to the audit system when instances are launched and terminated.

C. Use an EC2 Auto Scaling launch configuration to run a custom script through user data to send data to the audit system when instances are launched and terminated.

D. Run a custom script on the instance operating system to send data to the audit system. Configure the script to be invoked by the EC2 Auto Scaling group when the instance starts and is terminated.

Correct Answer: *B*

Community vote distribution

B (100%)

E & ktulu2602 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: B

The most efficient solution for this scenario is to use EC2 Auto Scaling lifecycle hooks to run a custom script to send data to the audit system wher instances are launched and terminated. The lifecycle hook can be used to delay instance termination until the script has completed, ensuring that all data is sent to the audit system before the instance is terminated. This solution is more efficient than using a scheduled AWS Lambda function, which would require running the function periodically and may not capture all instances launched and terminated within the interval. Running a custom script through user data is also not an optimal solution, as it may not guarantee that all instances send data to the audit system. Therefore option B is the correct answer.

upvoted 9 times

😑 👗 TariqKipkemei Most Recent 🕗 7 months, 4 weeks ago

Selected Answer: B

Use EC2 Auto Scaling lifecycle hooks to run a custom script to send data to the audit system when instances are launched and terminated upvoted 1 times

Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

EC2 Auto Scaling lifecycle hooks allow you to perform custom actions as instances launch and terminate. This is the most efficient way to trigger the auditing script execution at instance launch and termination.

upvoted 4 times

😑 🌲 WherecanIstart 1 year, 2 months ago

Selected Answer: B

https://docs.aws.amazon.com/autoscaling/ec2/userguide/lifecycle-hooks.html upvoted 3 times

😑 💄 COTIT 1 year, 2 months ago

Selected Answer: B

Amazon EC2 Auto Scaling offers the ability to add lifecycle hooks to your Auto Scaling groups. These hooks let you create solutions that are aware of events in the Auto Scaling instance lifecycle, and then perform a custom action on instances when the corresponding lifecycle event occurs. (https://docs.aws.amazon.com/autoscaling/ec2/userguide/lifecycle-hooks.html) upvoted 4 times

😑 🏝 fkie4 1 year, 3 months ago

it is B. read this: https://docs.aws.amazon.com/autoscaling/ec2/userguide/lifecycle-hooks.html upvoted 2 times Which solution should a solutions architect recommend?

A. Use Amazon Route 53 for traffic distribution and Amazon Aurora Serverless for data storage.

B. Use a Network Load Balancer for traffic distribution and Amazon DynamoDB on-demand for data storage.

C. Use a Network Load Balancer for traffic distribution and Amazon Aurora Global Database for data storage.

D. Use an Application Load Balancer for traffic distribution and Amazon DynamoDB global tables for data storage.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 🌲 TariqKipkemei (Highly Voted 🖬) 1 year ago

Selected Answer: B UDP = NLBNon-relational data = Dynamo DB upvoted 13 times

😑 🛔 Guru4Cloud Most Recent 🕗 9 months, 2 weeks ago

Selected Answer: B

This option provides the most scalable and optimized architecture for the real-time multiplayer game:

Network Load Balancer efficiently distributes UDP gaming traffic to the Auto Scaling group of game servers. DynamoDB On-Demand mode provides auto-scaling non-relational data storage for gamer scores and other game data. DynamoDB is optimized for fast, high-scale access patterns seen in gaming.

Together, the Network Load Balancer and DynamoDB On-Demand provide an architecture that can smoothly scale up and down to match spikes in gaming demand.

upvoted 4 times

😑 上 elearningtakai 1 year, 2 months ago

Selected Answer: B

Option B is a good fit because a Network Load Balancer can handle UDP traffic, and Amazon DynamoDB on-demand can provide automatic scalin without intervention

upvoted 2 times

😑 👗 KAUS2 1 year, 3 months ago

Selected Answer: B Correct option is "B" upvoted 1 times

😑 💄 aragon_saa 1 year, 3 months ago

В

https://www.examtopics.com/discussions/amazon/view/29756-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 1 times

😑 🌡 Kenp1192 1 year, 3 months ago

В

Because NLB can handle UDP and DynamoDB is Non-Relational upvoted 1 times

🖃 🌲 fruto123 1 year, 3 months ago

Selected Answer: B

key words - UDP, non-relational data answers - NLB for UDP application, DynamoDB for non-relational data upvoted 4 times

Which solution will meet these requirements?

A. Establish a connection between the frontend application and the database to make queries faster by bypassing the API.

B. Configure provisioned concurrency for the Lambda function that handles the requests.

C. Cache the results of the queries in Amazon S3 for faster retrieval of similar datasets.

D. Increase the size of the database to increase the number of connections Lambda can establish at one time.

Correct Answer: C

Community vote distribution

B (100%)

😑 👗 UnluckyDucky (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: B

Key: the Lambda function loads many libraries

Configuring provisioned concurrency would get rid of the "cold start" of the function therefore speeding up the proccess. upvoted 16 times

😑 👗 kampatra (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: B

Provisioned concurrency – Provisioned concurrency initializes a requested number of execution environments so that they are prepared to respond immediately to your function's invocations. Note that configuring provisioned concurrency incurs charges to your AWS account. upvoted 9 times

😑 💄 TariqKipkemei Most Recent 🕗 7 months, 4 weeks ago

Selected Answer: B

Provisioned concurrency pre-initializes execution environments which are prepared to respond immediately to incoming function requests. upvoted 5 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

Provisioned concurrency ensures a configured number of execution environments are ready to serve requests to the Lambda function. This avoids cold starts where the function would otherwise need to load all the libraries on each invocation.

upvoted 3 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

Provisioned concurrency ensures a configured number of execution environments are ready to serve requests to the Lambda function. This avoids cold starts where the function would otherwise need to load all the libraries on each invocation.

upvoted 1 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: B

Answer B is correct https://docs.aws.amazon.com/lambda/latest/dg/provisioned-concurrency.html Answer C: need to modify the application upvoted 4 times

😑 💄 elearningtakai 1 year, 2 months ago

This is relevant to "cold start" with keywords: "Lambda function loads many libraries" upvoted 1 times

😑 👗 Karlos99 1 year, 3 months ago

Selected Answer: B

https://docs.aws.amazon.com/lambda/latest/dg/provisioned-concurrency.html upvoted 3 times

A company is migrating its on-premises workload to the AWS Cloud. The company already uses several Amazon EC2 instances and Amazon RDS DB instances. The company wants a solution that automatically starts and stops the EC2 instances and DB instances outside of business hours. The solution must minimize cost and infrastructure maintenance.

Which solution will meet these requirements?

A. Scale the EC2 instances by using elastic resize. Scale the DB instances to zero outside of business hours.

B. Explore AWS Marketplace for partner solutions that will automatically start and stop the EC2 instances and DB instances on a schedule.

C. Launch another EC2 instance. Configure a crontab schedule to run shell scripts that will start and stop the existing EC2 instances and DB instances on a schedule.

D. Create an AWS Lambda function that will start and stop the EC2 instances and DB instances. Configure Amazon EventBridge to invoke the Lambda function on a schedule.

Correct Answer: A

Community vote distribution

D (100%)

😑 👗 ktulu2602 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: D

The most efficient solution for automatically starting and stopping EC2 instances and DB instances on a schedule while minimizing cost and infrastructure maintenance is to create an AWS Lambda function and configure Amazon EventBridge to invoke the function on a schedule.

Option A, scaling EC2 instances by using elastic resize and scaling DB instances to zero outside of business hours, is not feasible as DB instances cannot be scaled to zero.

Option B, exploring AWS Marketplace for partner solutions, may be an option, but it may not be the most efficient solution and could potentially add additional costs.

Option C, launching another EC2 instance and configuring a crontab schedule to run shell scripts that will start and stop the existing EC2 instances and DB instances on a schedule, adds unnecessary infrastructure and maintenance. upvoted 16 times

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 2 weeks ago

Selected Answer: D

This option leverages AWS Lambda and EventBridge to automatically schedule the starting and stopping of resources.

Lambda provides the script/code to stop/start instances without managing servers. EventBridge triggers the Lambda on a schedule without cronjobs. No additional code or third party tools needed.

Serverless, maintenance-free solution

upvoted 5 times

😑 💄 TariqKipkemei Most Recent 🕐 7 months, 4 weeks ago

Selected Answer: D

Create an AWS Lambda function that will start and stop the EC2 instances and DB instances. Configure Amazon EventBridge to invoke the Lambda function on a schedule.

upvoted 3 times

😑 🌲 WherecanIstart 1 year, 2 months ago

Selected Answer: D

Minimize cost and maintenance... upvoted 2 times

🖃 👗 [Removed] 1 year, 2 months ago

Selected Answer: D

upvoted 1 times

Question #381

A company hosts a three-tier web application that includes a PostgreSQL database. The database stores the metadata from documents. The company searches the metadata for key terms to retrieve documents that the company reviews in a report each month. The documents are stored in Amazon S3. The documents are usually written only once, but they are updated frequently.

The reporting process takes a few hours with the use of relational queries. The reporting process must not prevent any document modifications or the addition of new documents. A solutions architect needs to implement a solution to speed up the reporting process.

Which solution will meet these requirements with the LEAST amount of change to the application code?

A. Set up a new Amazon DocumentDB (with MongoDB compatibility) cluster that includes a read replica. Scale the read replica to generate the reports.

B. Set up a new Amazon Aurora PostgreSQL DB cluster that includes an Aurora Replica. Issue queries to the Aurora Replica to generate the reports.

C. Set up a new Amazon RDS for PostgreSQL Multi-AZ DB instance. Configure the reporting module to query the secondary RDS node so that the reporting module does not affect the primary node.

D. Set up a new Amazon DynamoDB table to store the documents. Use a fixed write capacity to support new document entries. Automatically scale the read capacity to support the reports.

Correct Answer: D Community vote distribution B (94%) 3%

😑 👗 Guru4Cloud (Highly Voted 🖬) 8 months, 3 weeks ago

Selected Answer: B

The key reasons are:

Aurora PostgreSQL provides native PostgreSQL compatibility, so minimal code changes would be required.

Using an Aurora Replica separates the reporting workload from the main workload, preventing any slowdown of document updates/inserts. Aurora can auto-scale read replicas to handle the reporting load.

This allows leveraging the existing PostgreSQL database without major changes. DynamoDB would require more significant rewrite of data access code.

RDS Multi-AZ alone would not fully separate the workloads, as the secondary is for HA/failover more than scaling read workloads. upvoted 10 times



Selected Answer: B Load balancing = Read replica High availability = Multi AZ upvoted 6 times

BillaRanga 4 months ago No Modifications allowerd = Read Replica upvoted 2 times

E & TruthWS Most Recent 2 months, 2 weeks ago

B is correct

upvoted 1 times

😑 🌲 ExamGuru727 2 months, 2 weeks ago

Selected Answer: B

We also have a requirement for the Least amount of change to the code. Since our DB is PostgreSQL, A & D are immediately out. Multi-AZ won't help with offloading read requests, hence the answer is B ;) upvoted 3 times

😑 🌲 Buck12345 3 months, 3 weeks ago

lt is B

upvoted 1 times

😑 🌲 Cyberkayu 5 months, 3 weeks ago

Selected Answer: C

D. Reporting process Must not prevent = allow modification and addition of new document.

all read replica were wrong. upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

How would 'issuing queries to the read replica' prevent modifications or updates? upvoted 1 times

😑 📥 KMohsoe 1 year ago

Selected Answer: A

Why not A? :(upvoted 1 times

😑 🌡 wRhIH 11 months, 3 weeks ago

"The reporting process takes a few hours with the use of RELATIONAL queries." upvoted 3 times

😑 💄 Murtadhaceit 6 months, 1 week ago

DocumentDB (For MongoDB) is no SQL. DynamoDB is also No SQL. Therefore, options A and D are out. upvoted 4 times

😑 🏝 lexotan 1 year, 1 month ago

Selected Answer: B

B is the right one. why admin does not correct these wrong answers? upvoted 3 times

😑 🌲 imvb88 1 year, 1 month ago

Selected Answer: B

The reporting process queries the metadata (not the documents) and use relational queries-> A, D out C: wrong since secondary RDS node in MultiAZ setup is in standby mode, not available for querying B: reporting using a Replica is a design pattern. Using Aurora is an exam pattern. upvoted 4 times

😑 💄 WherecanIstart 1 year, 2 months ago

Selected Answer: B

B is right.. upvoted 1 times

😑 👗 Maximus007 1 year, 2 months ago

Selected Answer: B

While both B&D seems to be a relevant, ChatGPT suggest B as a correct one upvoted 1 times

🕒 💄 cegama543 1 year, 3 months ago

Selected Answer: B

Option B (Set up a new Amazon Aurora PostgreSQL DB cluster that includes an Aurora Replica. Issue queries to the Aurora Replica to generate the reports) is the best option for speeding up the reporting process for a three-tier web application that includes a PostgreSQL database storing metadata from documents, while not impacting document modifications or additions, with the least amount of change to the application code. upvoted 2 times

😑 💄 UnluckyDucky 1 year, 3 months ago

Selected Answer: B

"LEAST amount of change to the application code"

Aurora is a relational database, it supports PostgreSQL and with the help of read replicas we can issue the reporting proccess that take several hours to the replica, therefore not affecting the primary node which can handle new writes or document modifications. upvoted 1 times

😑 🌲 Ashukaushal619 1 year, 3 months ago

its D only ,recorrected upvoted 1 times

Murtadhaceit 6 months, 1 week ago DynamoDB is no SQL. A and D are out! upvoted 1 times

😑 🌲 Ashukaushal619 1 year, 3 months ago

Selected Answer: B

bbbbbbbb

upvoted 1 times

A company has a three-tier application on AWS that ingests sensor data from its users' devices. The traffic flows through a Network Load Balancer (NLB), then to Amazon EC2 instances for the web tier, and finally to EC2 instances for the application tier. The application tier makes calls to a database.

What should a solutions architect do to improve the security of the data in transit?

A. Configure a TLS listener. Deploy the server certificate on the NLB.

B. Configure AWS Shield Advanced. Enable AWS WAF on the NLB.

C. Change the load balancer to an Application Load Balancer (ALB). Enable AWS WAF on the ALB.

D. Encrypt the Amazon Elastic Block Store (Amazon EBS) volume on the EC2 instances by using AWS Key Management Service (AWS KMS).

Correct Answer: *A*

Community vote distribution

A (100%)

😑 👗 fruto123 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

Network Load Balancers now support TLS protocol. With this launch, you can now offload resource intensive decryption/encryption from your application servers to a high throughput, and low latency Network Load Balancer. Network Load Balancer is now able to terminate TLS traffic and set up connections with your targets either over TCP or TLS protocol.

https://docs.aws.amazon.com/elasticloadbalancing/latest/network/create-tls-listener.html

https://exampleloadbalancer.com/nlbtls_demo.html upvoted 19 times

😑 🌲 imvb88 (Highly Voted 🖬) 1 year, 1 month ago

Selected Answer: A

security of data in transit -> think of SSL/TLS. Check: NLB supports TLS https://docs.aws.amazon.com/elasticloadbalancing/latest/network/create-tls-listener.html

B (DDoS), C (SQL Injection), D (EBS) is for data at rest. upvoted 13 times

😑 👗 TariqKipkemei (Most Recent 🕐) 7 months, 3 weeks ago

Selected Answer: A

secure data in transit = TLS upvoted 2 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: A

TLS provides encryption for data in motion over the network, protecting against eavesdropping and tampering. A valid server certificate signed by a trusted CA will provide further security.

upvoted 5 times

😑 🌲 klayytech 1 year, 2 months ago

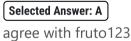
Selected Answer: A

To improve the security of data in transit, you can configure a TLS listener on the Network Load Balancer (NLB) and deploy the server certificate on it. This will encrypt traffic between clients and the NLB. You can also use AWS Certificate Manager (ACM) to provision, manage, and deploy SSL/TLS certificates for use with AWS services and your internal connected resources1.

You can also change the load balancer to an Application Load Balancer (ALB) and enable AWS WAF on it. AWS WAF is a web application firewall that helps protect your web applications from common web exploits that could affect application availability, compromise security, or consume excessive resources3.

the A and C correct without transit but the need to improve the security of the data in transit? so he need SSL/TLS certificates upvoted 2 times

😑 👗 Maximus007 1 year, 2 months ago



upvoted 3 times

Question #383

A company is planning to migrate a commercial off-the-shelf application from its on-premises data center to AWS. The software has a software licensing model using sockets and cores with predictable capacity and uptime requirements. The company wants to use its existing licenses, which were purchased earlier this year.

11%

Which Amazon EC2 pricing option is the MOST cost-effective?

- A. Dedicated Reserved Hosts
- B. Dedicated On-Demand Hosts
- C. Dedicated Reserved Instances
- D. Dedicated On-Demand Instances

Community vote distribution

A (89%)

😑 🌲 fkie4 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: A

"predictable capacity and uptime requirements" means "Reserved" "sockets and cores" means "dedicated host" upvoted 16 times

E & Hrishi_707 Most Recent 2 3 months ago

BYOL >>> Dedicated Hosts upvoted 2 times

😑 🌲 Uzbekistan 3 months, 1 week ago

Selected Answer: A A. Dedicated Reserved Hosts

Here's why:

License Flexibility: Dedicated Reserved Hosts allow the company to bring their existing licenses to AWS. This option enables them to continue using their purchased licenses without any additional cost or licensing changes.

Cost Optimization: Reserved Hosts offer significant cost savings compared to On-Demand pricing. By purchasing Reserved Hosts, the company car benefit from discounted hourly rates for the entire term of the reservation, which typically spans one or three years. upvoted 2 times

😑 🌲 jjcode 3 months, 3 weeks ago

I work with COTS applications they require a three tier architecture, its completely irrelevant and confusing to add that to the question, the key word here is licenses, since AWS wants your to use their solutions the answer to this is which of one the options solves this particular problem, in this case its dedicated hosts.

upvoted 1 times

😑 🆀 BillaRanga 4 months ago

Selected Answer: A] What is difference between dedicated host and reserved instance?

Dedicated Instance: The physical machine or underlying hardware is reserved for use for the whole account. You can have instances for different purposes on this hardware. Dedicated Host: The physical machine or the underlying hardware is reserved for "Single Use" only, eg. a certain application.

upvoted 2 times

😑 💄 BillaRanga 4 months ago

What is the difference between a dedicated instance and a dedicated host tenancy? Dedicated Instance (dedicated) — Your instance runs on single-tenant hardware. Dedicated Host (host) — Your instance runs on a physical server with EC2 instance capacity fully dedicated to your use, an isolated server with configurations that you can control. upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: A

Actually the question is a bit ambiguous because there ARE "software licensing model using sockets and cores" that accept virtual sockets are core as the base, for which C would work. But most of these license models are based on PHYSICAL sockets, thus A.

upvoted 3 times

😑 💄 TariqKipkemei 7 months, 3 weeks ago

Selected Answer: A

Dedicated Hosts give you visibility and control over how instances are placed on a physical server and also enable you to use your existing serverbound software licenses like Windows Server

upvoted 2 times

😑 💄 wsdasdasdqwdaw 7 months, 3 weeks ago

Easy with one, but only 79% up to now answered correctly. It is A. Reserved because of the predictable and sockets and cores means dedicated host.

upvoted 1 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

The correct answer is C. Dedicated Reserved Instances.

Dedicated Reserved Instances (DRIs) are the most cost-effective option for workloads that have predictable capacity and uptime requirements. DRI offer a significant discount over On-Demand Instances, and they can be used to lock in a price for a period of time.

In this case, the company has predictable capacity and uptime requirements because the software has a software licensing model using sockets and cores. The company also wants to use its existing licenses, which were purchased earlier this year. Therefore, DRIs are the most cost-effective option.

upvoted 3 times

😑 💄 riccardoto 10 months, 1 week ago

Selected Answer: C

I don't agree with people voting "A". The question reference that the COTS Application has a licensing model based on "sockets and cores". The question does not specify if it means TCP sockets (= open connections) or hardware sockets, so I assume that "TCP sockets are intended". If this is the case, sockets and cores can also remain stable with reserved instances - which are cheaper than reserved hosts.

I would go with "A" only if the question would clearly state that the COTS application has some strong dependency on physiscal hardware. upvoted 1 times

😑 💄 riccardoto 10 months, 1 week ago

note: instead, if by socket we mean "CPU sockets", then A would be the right one. upvoted 2 times

😑 💄 pentium75 5 months, 2 weeks ago

Even if "sockets" mean TCP sockets there are still the cores, thus A upvoted 2 times

😑 🌲 imvb88 1 year, 1 month ago

Selected Answer: A

Bring custom purchased licenses to AWS -> Dedicated Host -> C,D out Need cost effective solution -> "reserved" -> A upvoted 4 times

😑 💄 imvb88 1 year, 1 month ago

https://aws.amazon.com/ec2/dedicated-hosts/

Amazon EC2 Dedicated Hosts allow you to use your eligible software licenses from vendors such as Microsoft and Oracle on Amazon EC2, so that you get the flexibility and cost effectiveness of using your own licenses, but with the resiliency, simplicity and elasticity of AWS. upvoted 1 times

😑 🌲 aragon_saa 1 year, 3 months ago

А

https://www.examtopics.com/discussions/amazon/view/35818-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 1 times

😑 上 fruto123 1 year, 3 months ago

Selected Answer: A

Dedicated Host Reservations provide a billing discount compared to running On-Demand Dedicated Hosts. Reservations are available in three payment options.

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/dedicated-hosts-overview.html upvoted 3 times

😑 💄 Kenp1192 1 year, 3 months ago

A is the most cost effective upvoted 1 times A company runs an application on Amazon EC2 Linux instances across multiple Availability Zones. The application needs a storage layer that is highly available and Portable Operating System Interface (POSIX)-compliant. The storage layer must provide maximum data durability and must be shareable across the EC2 instances. The data in the storage layer will be accessed frequently for the first 30 days and will be accessed infrequently after that time.

Which solution will meet these requirements MOST cost-effectively?

A. Use the Amazon S3 Standard storage class. Create an S3 Lifecycle policy to move infrequently accessed data to S3 Glacier.

B. Use the Amazon S3 Standard storage class. Create an S3 Lifecycle policy to move infrequently accessed data to S3 Standard-Infrequent Access (S3 Standard-IA).

C. Use the Amazon Elastic File System (Amazon EFS) Standard storage class. Create a lifecycle management policy to move infrequently accessed data to EFS Standard-Infrequent Access (EFS Standard-IA).

D. Use the Amazon Elastic File System (Amazon EFS) One Zone storage class. Create a lifecycle management policy to move infrequently accessed data to EFS One Zone-Infrequent Access (EFS One Zone-IA).

Correct Answer: *B*

Community vote distribution

C (93%)

8%

😑 🆀 TariqKipkemei (Highly Voted 🖬) 1 year ago

Selected Answer: C

Multi AZ = both EFS and S3 support Storage classes = both EFS and S3 support POSIX file system access = only Amazon EFS supports upvoted 12 times

😑 👗 LazyTs (Highly Voted 🖬) 9 months, 1 week ago

Selected Answer: C

POSIX => EFS https://docs.aws.amazon.com/efs/latest/ug/whatisefs.html

upvoted 6 times

😑 👗 zinabu (Most Recent 🕐) 2 months, 1 week ago

Answer:B

cause there is no life cycle policy for EFS that will work in S3 only. upvoted 2 times

😑 👗 jjcode 3 months, 3 weeks ago

"storage layer will be accessed frequently for the first 30 days and will be accessed infrequently after that time" Was the only reason they added this to trick you?

upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: C

POSIX -> EFS, "maximum data durability" rules out One Zone

upvoted 3 times

😑 🌲 maudsha 7 months, 2 weeks ago

Selected Answer: C

Both standard and one zone have same durability. https://docs.aws.amazon.com/efs/latest/ug/storage-classes.html

Also EFS one zone can work with multiple EC2s in different AZs. But there will be a cost involved when you are accessing the EFS from a different AZ EC2. (EC2 data access charges) https://docs.aws.amazon.com/efs/latest/ug/how-it-works.html So if "all" EC2 instances accessing the files frequently there will be a storage cost + EC2 data access charges if you choose one zone.

So i would choose C.

upvoted 1 times

😑 🌲 beast2091 7 months, 2 weeks ago

Ans: C

upvoted 1 times

😑 💄 baba365 8 months, 3 weeks ago

Ans: D, one-zone IA for 'most cost effective' .

https://aws.amazon.com/efs/features/infrequent-access/ upvoted 1 times

😑 🌲 AAAWrekng 7 months, 2 weeks ago

How does D fulfill the data durability requirement? Requirements must be met first, then consider 'most cost effective' - if you go to a tire shop and say you want 4 new tires as cheap as possible. And they take off 4 tires and put on 2... Then they say you wanted it as cheap as possible... upvoted 3 times

😑 🌲 Gajendr 5 months, 2 weeks ago

What about "The application needs a storage layer that is highly available" and "application on Amazon EC2 Linux instances across multiple Availability Zones "?

upvoted 1 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

Use the Amazon Elastic File System (Amazon EFS) Standard storage class. Create a lifecycle management policy to move infrequently accessed data to EFS Standard-Infrequent Access (EFS Standard-IA).

upvoted 2 times

😑 💄 [Removed] 11 months, 3 weeks ago

Selected Answer: D

Amazon Elastic File System (Amazon EFS) Standard storage class = "maximum data durability" upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

"ONE ZONE-IA" does not meet the "maximum data durability" requirement upvoted 1 times

😑 🌡 Yadav_Sanjay 12 months ago

Selected Answer: D

D - It should be cost-effective upvoted 2 times

E **A pentium75** 5 months, 2 weeks ago

But D does meet the durability requirement. upvoted 1 times

E 🏝 Abrar2022 1 year ago

Selected Answer: C

POSIX file system access = only Amazon EFS supports upvoted 3 times

😑 🏝 imvb88 1 year, 1 month ago

Selected Answer: C

POSIX + sharable across EC2 instances --> EFS --> A, B out

Instances run across multiple AZ -> C is needed. upvoted 1 times

😑 🌲 Wherecanistart 1 year, 2 months ago

Selected Answer: C

Linux based system points to EFS plus POSIX-compliant is also EFS related.

upvoted 2 times

😑 💄 fkie4 1 year, 3 months ago

Selected Answer: C

"POSIX-compliant" means EFS. also, file system can be shared with multiple EC2 instances means "EFS" upvoted 4 times

😑 👗 KAUS2 1 year, 3 months ago

Selected Answer: C

Option C is the correct answer . upvoted 1 times

😑 💄 Ruhi02 1 year, 3 months ago

Answer c : https://aws.amazon.com/efs/features/infrequent-access/ upvoted 1 times



Which additional configuration strategy should the solutions architect use to meet these requirements?

A. Create a security group for the web servers and allow port 443 from 0.0.0/0. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.

B. Create a network ACL for the web servers and allow port 443 from 0.0.0/0. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.

C. Create a security group for the web servers and allow port 443 from the load balancer. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.

D. Create a network ACL for the web servers and allow port 443 from the load balancer. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.

Correct Answer: C

Community vote distribution

C (100%)

😑 🌲 TheFivePips 3 months, 2 weeks ago

Selected Answer: C

Option C aligns with the least access principle and provides a clear and granular control over the communication between different components ir the architecture.

Option D suggests using network ACLs, but security groups are more suitable for controlling access to individual instances based on their security group membership, which is why Option C is the more appropriate choice in this contex upvoted 2 times

😑 🌲 TariqKipkemei 7 months, 3 weeks ago

Selected Answer: C

Create a security group for the web servers and allow port 443 from the load balancer. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.

upvoted 2 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

C) Create a security group for the web servers and allow port 443 from the load balancer. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.

This option follows the principle of least privilege by only allowing necessary access:

Web server SG allows port 443 from load balancer SG (not open to world) MySQL SG allows port 3306 only from web server SG upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

Create a security group for the web servers and allow port 443 from the load balancer. Create a security group for the MySQL servers and allow port 3306 from the web servers security group upvoted 1 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: C

Option C is the correct choice. upvoted 1 times

😑 🌢 WherecanIstart 1 year, 2 months ago

Selected Answer: C

Load balancer is public facing accepting all traffic coming towards the VPC (0.0.0.0/0). The web server needs to trust traffic originating from the ALB. The DB will only trust traffic originating from the Web server on port 3306 for Mysql

upvoted 4 times

😑 🌡 fkie4 1 year, 3 months ago

Selected Answer: C

Just C. plain and simple upvoted 1 times

😑 💄 aragon_saa 1 year, 3 months ago

С

https://www.examtopics.com/discussions/amazon/view/43796-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 2 times

😑 🛔 [Removed] 1 year, 3 months ago

Selected Answer: C

сссссс

upvoted 1 times

An ecommerce company is running a multi-tier application on AWS. The front-end and backend tiers both run on Amazon EC2, and the database runs on Amazon RDS for MySQL. The backend tier communicates with the RDS instance. There are frequent calls to return identical datasets from the database that are causing performance slowdowns.

Which action should be taken to improve the performance of the backend?

A. Implement Amazon SNS to store the database calls.

B. Implement Amazon ElastiCache to cache the large datasets.

C. Implement an RDS for MySQL read replica to cache database calls.

D. Implement Amazon Kinesis Data Firehose to stream the calls to the database.

Correct	Answer:	В
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Community vote distribution

B (100%)

😑 💄 elearningtakai (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: B

the best solution is to implement Amazon ElastiCache to cache the large datasets, which will store the frequently accessed data in memory, allowing for faster retrieval times. This can help to alleviate the frequent calls to the database, reduce latency, and improve the overall performance of the backend tier.

upvoted 12 times

😑 👗 Ucy (Most Recent 🕐) 2 months, 1 week ago

Selected Answer: B

Answer is B This will help reduce the frequency of calls to the database and improve overall performance by serving frequently accessed data from the cache instead of fetching it from the database every time. It's is not option C as it suggests implementing an RDS for MySQL read replica to cache database calls. While read replicas can offload read operations from the primary database instance and improve read scalability, they are primarily used for read scaling and high availability rather than caching. Read replicas are intended to handle read-heavy workloads by distributing read requests across multiple instances. However, they do not inherently cache data like ElastiCache does.

😑 🚨 Ucy 2 months, 1 week ago

Answer is B

This will help reduce the frequency of calls to the database and improve overall performance by serving frequently accessed data from the cache instead of fetching it from the database every time.

It's is not option C as it suggests implementing an RDS for MySQL read replica to cache database calls. While read replicas can offload read operations from the primary database instance and improve read scalability, they are primarily used for read scaling and high availability rather than caching.

Read replicas are intended to handle read-heavy workloads by distributing read requests across multiple instances. However, they do not inherently cache data like ElastiCache does. upvoted 1 times

E & Bhanu1992 2 months, 2 weeks ago

Keyword is identical datasets

upvoted 1 times

□ ♣ thewalker 4 months ago

Selected Answer: B

As per Amazon Q:

ElastiCache can be used to cache datasets from queries to RDS databases. Some key points:

While creating an ElastiCache cluster from the RDS console provides convenience, the application is still responsible for leveraging the cache.

Caching query results in ElastiCache can significantly improve performance by allowing high-volume read operations to be served from cache versus hitting the database.

This is especially useful for applications with high read throughput needs, as scaling the database can become more expensive compared to scaling the cache as needs increase. ElastiCache nodes can support up to 400,000 queries per second.

Cost savings are directly proportional to read throughput - higher throughput applications see greater savings. upvoted 1 times

😑 💄 Murtadhaceit 6 months, 1 week ago

Selected Answer: B

The best scenario to implement caching, identical calls to the same data sets. upvoted 2 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

B) Implement Amazon ElastiCache to cache the large datasets.

The key issue is repeated calls to return identical datasets from the RDS database causing performance slowdowns.

Implementing Amazon ElastiCache for Redis or Memcached would allow these repeated query results to be cached, improving backend performance by reducing load on the database. upvoted 3 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

B) Implement Amazon ElastiCache to cache the large datasets.

The key issue is repeated calls to return identical datasets from the RDS database causing performance slowdowns.

Implementing Amazon ElastiCache for Redis or Memcached would allow these repeated query results to be cached, improving backend performance by reducing load on the database. upvoted 1 times

😑 📥 Abrar2022 1 year ago

Selected Answer: B

Thanks Tarig for the simplified answer below:

frequent identical calls = ElastiCache upvoted 2 times

😑 🌲 TariqKipkemei 1 year ago

frequent identical calls = ElastiCache upvoted 1 times

E 🎴 Mikebonsi70 1 year, 2 months ago

Tricky question, anyway. upvoted 2 times

🖃 🌡 Mikebonsi70 1 year, 2 months ago

Yes, cashing is the solution but is Elasticache compatible with RDS MySQL DB? So, what about the answer C with a DB read replica? For me it's C. upvoted 1 times

😑 🌡 aragon_saa 1 year, 3 months ago

В

https://www.examtopics.com/discussions/amazon/view/27874-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 1 times

😑 🌲 fruto123 1 year, 3 months ago

Selected Answer: B

Key term is identical datasets from the database it means caching can solve this issue by cached in frequently used dataset from DB upvoted 4 times

A new employee has joined a company as a deployment engineer. The deployment engineer will be using AWS CloudFormation templates to create multiple AWS resources. A solutions architect wants the deployment engineer to perform job activities while following the principle of least privilege.

Which combination of actions should the solutions architect take to accomplish this goal? (Choose two.)

A. Have the deployment engineer use AWS account root user credentials for performing AWS CloudFormation stack operations.

B. Create a new IAM user for the deployment engineer and add the IAM user to a group that has the PowerUsers IAM policy attached.

C. Create a new IAM user for the deployment engineer and add the IAM user to a group that has the AdministratorAccess IAM policy attached.

D. Create a new IAM user for the deployment engineer and add the IAM user to a group that has an IAM policy that allows AWS CloudFormation actions only.

E. Create an IAM role for the deployment engineer to explicitly define the permissions specific to the AWS CloudFormation stack and launch stacks using that IAM role.

Correct Answer: *DE*

Community vote distribution

😑 💄 truongtx8 4 months, 3 weeks ago

Selected Answer: DE

The answers inside the question: CloudFormation. A is exluced since root account is never a choice for the principle of least privilege. D, E left are the correct ones. upvoted 4 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: DE

ABC are just giving too much access so CD are logical choices upvoted 2 times

DE (100%)

😑 🌲 TariqKipkemei 7 months, 3 weeks ago

Selected Answer: DE

Create a new IAM user for the deployment engineer and add the IAM user to a group that has an IAM policy that allows AWS CloudFormation actions only.

Create an IAM role for the deployment engineer to explicitly define the permissions specific to the AWS CloudFormation stack and launch stacks using that IAM role.

upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: DE

The two actions that should be taken to follow the principle of least privilege are:

D) Create a new IAM user for the deployment engineer and add the IAM user to a group that has an IAM policy that allows AWS CloudFormation actions only.

E) Create an IAM role for the deployment engineer to explicitly define the permissions specific to the AWS CloudFormation stack and launch stacks using that IAM role.

The principle of least privilege states that users should only be given the minimal permissions necessary to perform their job function. upvoted 3 times

😑 🏝 alexandercamachop 1 year ago

Selected Answer: DE

Option D, creating a new IAM user and adding them to a group with an IAM policy that allows AWS CloudFormation actions only, ensures that the deployment engineer has the necessary permissions to perform AWS CloudFormation operations while limiting access to other resources and actions. This aligns with the principle of least privilege by providing the minimum required permissions for their job activities.

Option E, creating an IAM role with specific permissions for AWS CloudFormation stack operations and allowing the deployment engineer to assume that role, is another valid approach. By using an IAM role, the deployment engineer can assume the role when necessary, granting them temporary permissions to perform CloudFormation actions. This provides a level of separation and limits the permissions granted to the engineer to only the required CloudFormation operations.

upvoted 2 times

😑 👗 Babaaaaa 1 year ago

Selected Answer: DE Dddd,Eeee upvoted 1 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: DE

D & E are a good choices upvoted 1 times

😑 💄 aragon_saa 1 year, 3 months ago

D, E

https://www.examtopics.com/discussions/amazon/view/46428-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 3 times

😑 🌲 mwwt2022 5 months, 1 week ago

thank you my friend upvoted 1 times

😑 🌲 fruto123 1 year, 3 months ago

Selected Answer: DE

I agree DE upvoted 2 times

Question #388

A company is deploying a two-tier web application in a VPC. The web tier is using an Amazon EC2 Auto Scaling group with public subnets that span multiple Availability Zones. The database tier consists of an Amazon RDS for MySQL DB instance in separate private subnets. The web tier requires access to the database to retrieve product information.

The web application is not working as intended. The web application reports that it cannot connect to the database. The database is confirmed to be up and running. All configurations for the network ACLs, security groups, and route tables are still in their default states.

What should a solutions architect recommend to fix the application?

D (95%)

A. Add an explicit rule to the private subnet's network ACL to allow traffic from the web tier's EC2 instances.

B. Add a route in the VPC route table to allow traffic between the web tier's EC2 instances and the database tier.

C. Deploy the web tier's EC2 instances and the database tier's RDS instance into two separate VPCs, and configure VPC peering.

D. Add an inbound rule to the security group of the database tier's RDS instance to allow traffic from the web tiers security group.

Correct Answer: D

Community vote distribution

5%

😑 🏝 TariqKipkemei (Highly Voted 🖬) 1 year ago

Selected Answer: D

Security group defaults block all inbound traffic. Add an inbound rule to the security group of the database tier's RDS instance to allow traffic from the web tiers security group

upvoted 9 times

ExamGuru727 [Most Recent 🖸] 2 months, 2 weeks ago

Selected Answer: D

For those questioning why the answer is not A:

https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html

Default NACLs allow all traffic, and in this question NACLs, SGs and route tables are in their default states. upvoted 1 times

😑 🆀 hgjdsh 2 months, 3 weeks ago

Selected Answer: A

I think the answer should be A. Sine the services are in different subnets, the NACL would by default block all the incoming traffic to the subnet. Security group rule wouldn't be able to override NACL rule.

upvoted 1 times

😑 🌡 njufi 2 months, 3 weeks ago

I selected option D as well, but I have a question regarding option A. Considering that the EC2 instances and the RDS are located in different subnets, shouldn't the network ACLs for each subnet allow traffic from one another as well? Given that the default settings for network ACLs typically block all traffic, wouldn't it be necessary to explicitly permit communication between the subnets? upvoted 1 times

😑 🌲 smartegnine 11 months, 3 weeks ago

Selected Answer: D

Security Groups are tied on instance where as network ACL are tied to Subnet. upvoted 4 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: D

By default, all inbound traffic to an RDS instance is blocked. Therefore, an inbound rule needs to be added to the security group of the RDS instance to allow traffic from the security group of the web tier's EC2 instances. upvoted 3 times

😑 🌡 Russs99 1 year, 2 months ago

Selected Answer: D

D is the correct answer

upvoted 1 times

😑 💄 aragon_saa 1 year, 3 months ago

D

https://www.examtopics.com/discussions/amazon/view/81445-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 1 times

😑 🛔 KAUS2 1 year, 3 months ago

Selected Answer: D

D is correct option upvoted 1 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: D

dddddd upvoted 2 times

A company has a large dataset for its online advertising business stored in an Amazon RDS for MySQL DB instance in a single Availability Zone. The company wants business reporting queries to run without impacting the write operations to the production DB instance.

Which solution meets these requirements?

- A. Deploy RDS read replicas to process the business reporting queries.
- B. Scale out the DB instance horizontally by placing it behind an Elastic Load Balancer.
- C. Scale up the DB instance to a larger instance type to handle write operations and queries.
- D. Deploy the DB instance in multiple Availability Zones to process the business reporting queries.

Correct Answer: D

Community vote distribution

A (100%)

😑 🆀 mwwt2022 5 months, 1 week ago

Selected Answer: A

reporting queries to run without impacting the write operations -> read replicas upvoted 3 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: A

A) Deploy RDS read replicas to process the business reporting queries.

The key points are:

RDS read replicas allow read-only copies of the production DB instance to be created Queries to the read replica don't affect the source DB instance performance This isolates reporting queries from production traffic and write operations So using RDS read replicas is the best way to meet the requirements of running reporting queries without impacting production write operations. upvoted 4 times

😑 上 james2033 10 months, 3 weeks ago

Selected Answer: A

"single AZ", "large dataset", "Amazon RDS for MySQL database". Want "business report queries". --> Solution "Read replicas", choose A. upvoted 1 times

😑 🏝 antropaws 1 year ago

Selected Answer: A No doubt A. upvoted 2 times

😑 🏝 TariqKipkemei 1 year ago

Load balance read operations = read replicas upvoted 1 times

😑 👗 TariqKipkemei 7 months, 3 weeks ago

reports=read replica upvoted 1 times

🖃 🌡 KAUS2 1 year, 3 months ago

Selected Answer: A

Option "A" is the right answer. Read replica use cases - You have a production database that is taking on normal load & You want to run a reporting application to run some analytics • You create a Read Replica to run the new workload there

- The production application is unaffected
- Read replicas are used for SELECT (=read) only kind of statements (not INSERT, UPDATE, DELETE) upvoted 2 times

E & [Removed] 1 year, 3 months ago

Selected Answer: A

aaaaaaaaaaa

upvoted 2 times

😑 👗 cegama543 1 year, 3 months ago

Selected Answer: A

option A is the best solution for ensuring that business reporting queries can run without impacting write operations to the production DB instance.

upvoted 3 times

The company wants to optimize customer session management during transactions. The application must store session data durably.

Which solutions will meet these requirements? (Choose two.)

A. Turn on the sticky sessions feature (session affinity) on the ALB.

B. Use an Amazon DynamoDB table to store customer session information.

C. Deploy an Amazon Cognito user pool to manage user session information.

D. Deploy an Amazon ElastiCache for Redis cluster to store customer session information.

E. Use AWS Systems Manager Application Manager in the application to manage user session information.

BD (23%)

Correct Answer: BD

Community vote distribution

AD (45%)

AB (30%)

😑 👗 fruto123 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: AD

It is A and D. Proof is in link below.

https://aws.amazon.com/caching/session-management/ upvoted 25 times

😑 🌲 pentium75 5 months ago

This doesn't say anything about durability upvoted 2 times

😑 🛔 Marco_St (Highly Voted 🖬) 5 months, 4 weeks ago

Selected Answer: BD

I did not get why A is most voted? The question did not mention anything about fixed routing target so the ALB should route traffic randomly to each server. Then we just need to provide cache session management to avoid session lost issue instead of using sticky session. upvoted 9 times

E Lzbekistan Most Recent 2 3 months, 1 week ago

Selected Answer: BD

Option A suggests using sticky sessions (session affinity) on the Application Load Balancer (ALB). While sticky sessions can help route requests fror the same client to the same backend server, it doesn't directly address the requirement for durable storage of session data. Sticky sessions are typically used to maintain session state at the load balancer level, but they do not provide data durability in case of server failures or restarts. Option A - is not correct !!!

So answer is option B and D ! ! ! upvoted 1 times

😑 💄 jjcode 3 months, 3 weeks ago

why does it matter to store user sessions durably? they EXPIRE, why would a company care about storing user sessions, thats not something thats done in the real world, those things are usually data dumped, or overwritten with new session tokens LOL, this whole question is &^%&*^\$#@%^ upvoted 3 times

😑 💄 tuso 4 months, 1 week ago

I think the question is intended to mean "Combination of services", as some answers say "to store" or "to manage". So i am going for A+B, as stick sessions are intended to manage the sessions and DynamoDB to store durably.

upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: AB

Going for AB. Sticky Sessions to "optimize customer session management during transactions" and DynamoDB to "store session data durably".

D, ElastiCache does NOT allow "durable" storage. Just because there's an article that contains both words "ElastiCache" and "durable" does not prove the contrary.

C and E, Cognito and Systems Manager, have nothing to do with the issue. upvoted 3 times

😑 💄 dkw2342 3 months, 1 week ago

I agree that ElastiCache for Redis is not a durable KV store.

But what about the phrasing?

"Which solutions will meet these requirements? (Choose two.)" Solutions (plural) implies two ways to *independently* fulfill the requirements. If you're supposed to select a combination of options, it's usually phrased like this: "Which combination of solutions ..." upvoted 1 times

😑 💄 avdxeqtr 5 months ago

https://aws.amazon.com/blogs/developer/elasticache-as-an-asp-net-session-store/

Amazon ElastiCache for Redis is highly suited as a session store to manage session information such as user authentication tokens, session state and more. Simply use ElastiCache for Redis as a fast key-value store with appropriate TTL on session keys to manage your session information. Session management is commonly required for online applications, including games, e-commerce websites, and social media platforms. upvoted 2 times

😑 💄 avdxeqtr 5 months ago

Correct link: https://aws.amazon.com/elasticache/redis/ upvoted 3 times

😑 🌲 **m_y_s** 6 months, 1 week ago

Selected Answer: BD

I don't understand what Sticky Session has to do with session storage. For the intent of the problem, I think DynamoDB and Redis are appropriate. upvoted 4 times

😑 💄 pentium75 5 months, 2 weeks ago

"Session storage" is not the only requirement here. It is about 'optimizing customer session management during transactions', obviously it makes sense to host customer sessions on same node to easy the session management. upvoted 2 times

😑 💄 daniel1 7 months, 3 weeks ago

Selected Answer: BD

Chatgpt4 says B and D

Option A (Sticky sessions) is more for ensuring that a client's requests are sent to the same target once a session is established, but it doesn't provide a mechanism for durable session data storage across multiple instances. Option C (Amazon Cognito) is more for user identity managemen rather than session data storage during transactions. Option E (AWS Systems Manager Application Manager) is not a suitable or standard choice for session management in applications.

upvoted 4 times

😑 💄 pentium75 5 months, 2 weeks ago

Answers starting with "ChatGPT says ..." are usually wrong.

In that case, B and D solve the same part of the requirement (storing session data), just B is durable (as required) while D is not durable (thus failing to meet the requirement). We still need to 'optimize customer session management'. upvoted 3 times

😑 🌲 TariqKipkemei 7 months, 3 weeks ago

Selected Answer: AD

Well, this documentation says it all. Option A is obvious, and D ElastiCache for Redis, can even support replication in case of node failure/session data loss.

https://aws.amazon.com/caching/session-management/

upvoted 3 times

😑 🌲 pentium75 5 months ago

ElastiCache can be HA and supports replication, but it remains a cache, which is by definition not durable. upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: AD

It is A and D. Proof is in link below.

https://aws.amazon.com/caching/session-management/ upvoted 2 times

😑 🌲 pentium75 5 months ago

That does not say anything about durability. upvoted 1 times

😑 🌲 coolkidsclubvip 10 months, 1 week ago

Selected Answer: AB

cache is not durable...at all upvoted 4 times

😑 💄 mrsoa 10 months, 3 weeks ago

Selected Answer: AD

go for AD upvoted 1 times

😑 👗 Kaiden123 10 months, 3 weeks ago

Selected Answer: B

go with B upvoted 2 times

😑 🌲 msdnpro 11 months ago

Selected Answer: AD

For D : "Amazon ElastiCache for Redis is highly suited as a session store to manage session information such as user authentication tokens, session state, and more."

https://aws.amazon.com/elasticache/redis/ upvoted 2 times

😑 🌲 dkw2342 3 months, 1 week ago

Elsewhere they state: "Redis was not built to be a durable and consistent database. If you need a durable, Redis-compatible database, consider Amazon MemoryDB for Redis. Because MemoryDB uses a durable transactional log that stores data across multiple Availability Zones (AZs), you can use it as your primary database. MemoryDB is purpose-built to enable developers to use the Redis API without worrying about managing a separate cache, database, or the underlying infrastructure."

https://aws.amazon.com/redis/ upvoted 1 times

😑 🌲 pentium75 5 months ago

What about durability? upvoted 1 times

😑 💄 mattel 11 months, 4 weeks ago

B and D: "The application must store session data durably" with Sticky sessions the application doesn't store anything. upvoted 4 times

😑 💄 pentium75 5 months ago

Why would sticky sessions stop applicaton from storing anything? upvoted 1 times

😑 🌡 Axeashes 1 year ago

An option for data persistence for ElastiCache:

https://aws.amazon.com/elasticache/faqs/#:~:text=Q%3A%20Does%20Amazon%20ElastiCache%20for%20Redis%20support%20Redis%20persister ce%3F%0AAmazon%20ElastiCache%20for%20Redis%20doesn%E2%80%99t%20support%20the%20AOF%20(Append%20Only%20File)%20feature%20but%20you%20can%20achieve%20persistence%20by%20snapshotting%20your%20Redis%20data%20using%20the%20Backup%20and%20Rest re%20feature.%20Please%20see%20here%20for%20details.

upvoted 2 times

😑 🌲 pentium75 5 months ago

The opposite is true: "ElastiCache is ideally suited as a front end for AWS services like Amazon RDS and DynamoDB, providing extremely low latency for high-performance applications and offloading some of the request volume while these services (!!!) provide long-lasting data durability."

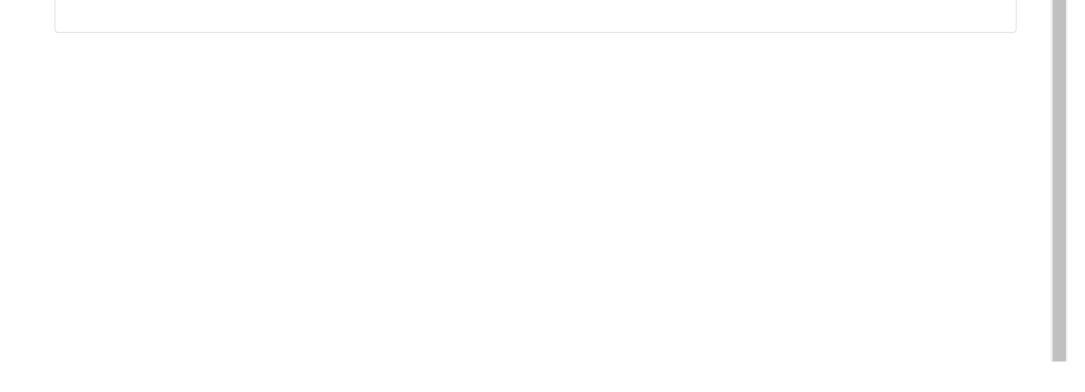
ElastiCache can serve as a cache for DynamoDB and provide low latency while DynamoDB (!) provides durability. upvoted 1 times

😑 💄 dpaz 1 year ago

Selected Answer: AB

ElastiCache is not durable so session info has to be stored in DynamoDB.

upvoted 3 times



The backup strategy must maximize scalability and optimize resource utilization for this environment.

Which solution will meet these requirements?

A. Take snapshots of Amazon Elastic Block Store (Amazon EBS) volumes of the EC2 instances and database every 2 hours to meet the RPO.

B. Configure a snapshot lifecycle policy to take Amazon Elastic Block Store (Amazon EBS) snapshots. Enable automated backups in Amazon RDS to meet the RPO.

C. Retain the latest Amazon Machine Images (AMIs) of the web and application tiers. Enable automated backups in Amazon RDS and use point-in-time recovery to meet the RPO.

D. Take snapshots of Amazon Elastic Block Store (Amazon EBS) volumes of the EC2 instances every 2 hours. Enable automated backups in Amazon RDS and use point-in-time recovery to meet the RPO.

Correct Answer: D

Community vote distribution

C (86%)

12%

😑 👗 elearningtakai (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: C

that if there is no temporary local storage on the EC2 instances, then snapshots of EBS volumes are not necessary. Therefore, if your application does not require temporary storage on EC2 instances, using AMIs to back up the web and application tiers is sufficient to restore the system after a failure.

Snapshots of EBS volumes would be necessary if you want to back up the entire EC2 instance, including any applications and temporary data stored on the EBS volumes attached to the instances. When you take a snapshot of an EBS volume, it backs up the entire contents of that volume. This ensures that you can restore the entire EC2 instance to a specific point in time more quickly. However, if there is no temporary data stored on the EBS volumes, then snapshots of EBS volumes are not necessary.

upvoted 30 times

😑 👗 MssP 1 year, 2 months ago

I think "temporal local storage" refers to "instance store", no instance store is required. EBS is durable storage, not temporal. upvoted 2 times

😑 🌲 MssP 1 year, 2 months ago

Look at the first paragraph. https://repost.aws/knowledge-center/instance-store-vs-ebs upvoted 1 times

😑 👗 CloudForFun (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: C

The web application does not require temporary local storage on the EC2 instances => No EBS snapshot is required, retaining the latest AMI is enough.

upvoted 13 times

😑 🌲 Mikado211 (Most Recent 🕐) 6 months ago

Selected Answer: C

The web application does not require temporary local storage on the EC2 instances so we do not care about ECS. We only need two things here , the image of the instance (AMI) and a database backup.

С

upvoted 2 times

😑 🌲 TariqKipkemei 7 months, 3 weeks ago

Selected Answer: C

"The web application does not require temporary local storage on the EC2 instances" rules out any option to back up the EC2 EBS volumes. upvoted 1 times

😑 🏝 darekw 10 months, 2 weeks ago

Question says: ...stateless web application.. that means application doesn't store any data, so no EBS required

upvoted 1 times

😑 🌲 kruasan 1 year, 1 month ago

Selected Answer: C

Since the application has no local data on instances, AMIs alone can meet the RPO by restoring instances from the most recent AMI backup. When combined with automated RDS backups for the database, this provides a complete backup solution for this environment. The other options involving EBS snapshots would be unnecessary given the stateless nature of the instances. AMIs provide all the backup needed for the app tier.

This uses native, automated AWS backup features that require minimal ongoing management:

- AMI automated backups provide point-in-time recovery for the stateless app tier.
- RDS automated backups provide point-in-time recovery for the database. upvoted 3 times

😑 💄 neosis91 1 year, 1 month ago

Selected Answer: B

BBBBBBBBBB upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Why back up EBS volumes of the autoscaled instances? upvoted 1 times

😑 🆀 Rob1L 1 year, 2 months ago

Selected Answer: D

I vote for D upvoted 1 times

😑 📥 pentium75 5 months, 2 weeks ago

Why back up EBS volumes of the autoscaled instances? upvoted 1 times

E & CapJackSparrow 1 year, 2 months ago

Selected Answer: C

makes more sense. upvoted 2 times

😑 💄 nileshlg 1 year, 2 months ago

Selected Answer: C

Answer is C. Keyword to notice "Stateless" upvoted 2 times

😑 💄 cra2yk 1 year, 2 months ago

Selected Answer: C

why B? I mean "stateless" and "does not require temporary local storage" have indicate that we don't need to take snapshot for ec2 volume. upvoted 3 times

😑 👗 ktulu2602 1 year, 3 months ago

Selected Answer: B

Option B is the most appropriate solution for the given requirements.

With this solution, a snapshot lifecycle policy can be created to take Amazon Elastic Block Store (Amazon EBS) snapshots periodically, which will ensure that EC2 instances can be restored in the event of an outage. Additionally, automated backups can be enabled in Amazon RDS for PostgreSQL to take frequent backups of the database tier. This will help to minimize the RPO to 2 hours.

Taking snapshots of Amazon EBS volumes of the EC2 instances and database every 2 hours (Option A) may not be cost-effective and efficient, as this approach would require taking regular backups of all the instances and volumes, regardless of whether any changes have occurred or not. Retaining the latest Amazon Machine Images (AMIs) of the web and application tiers (Option C) would provide only an image backup and not a data backup, which is required for the database tier. Taking snapshots of Amazon EBS volumes of the EC2 instances every 2 hours and enabling automated backups in Amazon RDS and using point-in-time recovery (Option D) would result in higher costs and may not be necessary to meet the RPO requirement of 2 hours.

upvoted 4 times

😑 🌲 pentium75 5 months, 2 weeks ago

Why back up EBS volumes of the autoscaled instances?

"Retaining the latest Amazon Machine Images (AMIs) of the web and application tiers (Option C) would provide only an image backup and not a data backup, which is required for the database tier." False because option C also includes "automated backups in Amazon RDS". upvoted 1 times

😑 💄 cegama543 1 year, 3 months ago

Selected Answer: B

B. Configure a snapshot lifecycle policy to take Amazon Elastic Block Store (Amazon EBS) snapshots. Enable automated backups in Amazon RDS to meet the RPO.

The best solution is to configure a snapshot lifecycle policy to take Amazon Elastic Block Store (Amazon EBS) snapshots, and enable automated backups in Amazon RDS to meet the RPO. An RPO of 2 hours means that the company needs to ensure that the backup is taken every 2 hours to minimize data loss in case of a disaster. Using a snapshot lifecycle policy to take Amazon EBS snapshots will ensure that the web and application tier can be restored quickly and efficiently in case of a disaster. Additionally, enabling automated backups in Amazon RDS will ensure that the database tier can be restored quickly and efficiently in case of a disaster. This solution maximizes scalability and optimizes resource utilization because it uses automated backup solutions built into AWS. upvoted 3 times

😑 👗 pentium75 5 months, 2 weeks ago

No need to back up the EBS volumes of autoscaled instances. upvoted 1 times

The application must be secure and accessible for global customers that have dynamic IP addresses.

How should a solutions architect configure the security groups to meet these requirements?

A. Configure the security group for the web servers to allow inbound traffic on port 443 from 0.0.0/0. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the security group of the web servers.

B. Configure the security group for the web servers to allow inbound traffic on port 443 from the IP addresses of the customers. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the security group of the web servers.

C. Configure the security group for the web servers to allow inbound traffic on port 443 from the IP addresses of the customers. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the IP addresses of the customers.

D. Configure the security group for the web servers to allow inbound traffic on port 443 from 0.0.0.0/0. Configure the security group for the DB instance to allow inbound traffic on port 3306 from 0.0.0.0/0.

Correct Answer: *A*

Community vote distribution

B (17%)

😑 🆀 Bhanu1992 (Highly Voted 🖬) 2 months, 2 weeks ago

A (83%)

The keyword is dynamic IPs from the customer, then B, C out, D out due to 0.0.0.0/0 upvoted 5 times

□ ▲ awsgeek75 Most Recent ④ 4 months, 3 weeks ago

Selected Answer: A

"The application must be secure and accessible for global customers that have dynamic IP addresses." This just means "anyone" so BC are wrong a you cannot know in advance about the dynamic IP addresses. D is just opening the DB to the internet.

A is most secure as web is open to internet and db is open to web only. upvoted 4 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: A

It allows HTTPS access from any public IP address, meeting the requirement for global customer access.

HTTPS provides encryption for secure communication.

And for the database security group, only allowing inbound port 3306 from the web server security group properly restricts access to only the resources that need it.

upvoted 3 times

😑 💄 jayce5 1 year ago

Selected Answer: A

Should be A since the customer IPs are dynamically. upvoted 1 times

😑 🏝 antropaws 1 year ago

Selected Answer: A

A no doubt.

upvoted 2 times

upvoted 1 times

😑 💄 MostafaWardany 1 year ago

Correct answer A, customer dynamic IPs = >> 443 from 0.0.0/0 upvoted 2 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: A

dynamic source ips = allow all traffic - Configure the security group for the web servers to allow inbound traffic on port 443 from 0.0.0/0. Configure the security group for the DB instance to allow inbound traffic on port 3306 from the security group of the web servers. upvoted 2 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: A

If the customers have dynamic IP addresses, option A would be the most appropriate solution for allowing global access while maintaining security upvoted 4 times

😑 💄 Kenzo 1 year, 2 months ago

Correct answer is A. B and C are out. D is out because it is accepting traffic from every where instead of from webservers only upvoted 4 times

😑 🌡 Grace83 1 year, 2 months ago

A is correct upvoted 3 times

😑 💄 WherecanIstart 1 year, 2 months ago

Selected Answer: B

Keyword dynamic ... A is the right answer. If the IP were static and specific, B would be the right answer upvoted 4 times

😑 💄 pentium75 5 months, 2 weeks ago

Then why voted B? upvoted 2 times

😑 🌲 boxu03 1 year, 2 months ago

Selected Answer: A

upvoted 1 times

😑 🌲 kprakashbehera 1 year, 3 months ago

Selected Answer: A

Ans - A upvoted 1 times

🖃 上 [Removed] 1 year, 3 months ago

Selected Answer: A

aaaaaa upvoted 1 times

A payment processing company records all voice communication with its customers and stores the audio files in an Amazon S3 bucket. The company needs to capture the text from the audio files. The company must remove from the text any personally identifiable information (PII) that belongs to customers.

What should a solutions architect do to meet these requirements?

A. Process the audio files by using Amazon Kinesis Video Streams. Use an AWS Lambda function to scan for known PII patterns.

B. When an audio file is uploaded to the S3 bucket, invoke an AWS Lambda function to start an Amazon Textract task to analyze the call recordings.

C. Configure an Amazon Transcribe transcription job with PII redaction turned on. When an audio file is uploaded to the S3 bucket, invoke an AWS Lambda function to start the transcription job. Store the output in a separate S3 bucket.

D. Create an Amazon Connect contact flow that ingests the audio files with transcription turned on. Embed an AWS Lambda function to scan for known PII patterns. Use Amazon EventBridge to start the contact flow when an audio file is uploaded to the S3 bucket.

Correct Answer: C

Community vote distribution

C (100%)

😑 🌲 TariqKipkemei 7 months, 3 weeks ago

Selected Answer: C

speech to text = Amazon Transcribe
upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

Amazon Transcribe is a service provided by Amazon Web Services (AWS) that converts speech to text using automatic speech recognition (ASR) technology

upvoted 3 times

😑 🌲 james2033 11 months ago

Selected Answer: C

AWS Transcribe https://aws.amazon.com/transcribe/ . Redacting or identifying (Personally identifiable instance) PII in real-time stream https://docs.aws.amazon.com/transcribe/latest/dg/pii-redaction-stream.html . upvoted 1 times

😑 🌲 SimiTik 1 year, 1 month ago

С

Amazon Transcribe is a service provided by Amazon Web Services (AWS) that converts speech to text using automatic speech recognition (ASR) technology. gtp

upvoted 3 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: C

Option C is the most suitable solution as it suggests using Amazon Transcribe with PII redaction turned on. When an audio file is uploaded to the S3 bucket, an AWS Lambda function can be used to start the transcription job. The output can be stored in a separate S3 bucket to ensure that the

PII redaction is applied to the transcript. Amazon Transcribe can redact PII such as credit card numbers, social security numbers, and phone numbers.

upvoted 3 times

😑 🌲 Wherecanistart 1 year, 2 months ago

Selected Answer: C

C for sure.....

upvoted 1 times

😑 🌲 Wherecanistart 1 year, 2 months ago

C for sure

upvoted 1 times

😑 💄 boxu03 1 year, 2 months ago

Selected Answer: C

сссссссс

upvoted 1 times

😑 🆀 Ruhi02 1 year, 3 months ago

answer c upvoted 1 times

😑 💄 KAUS2 1 year, 3 months ago

Selected Answer: C

Option C is correct.. upvoted 1 times

A company is running a multi-tier ecommerce web application in the AWS Cloud. The application runs on Amazon EC2 instances with an Amazon RDS for MySQL Multi-AZ DB instance. Amazon RDS is configured with the latest generation DB instance with 2,000 GB of storage in a General Purpose SSD (gp3) Amazon Elastic Block Store (Amazon EBS) volume. The database performance affects the application during periods of high demand.

A database administrator analyzes the logs in Amazon CloudWatch Logs and discovers that the application performance always degrades when the number of read and write IOPS is higher than 20,000.

What should a solutions architect do to improve the application performance?

- A. Replace the volume with a magnetic volume.
- B. Increase the number of IOPS on the gp3 volume.
- C. Replace the volume with a Provisioned IOPS SSD (io2) volume.
- D. Replace the 2,000 GB gp3 volume with two 1,000 GB gp3 volumes.

Correct Answer: C

Community vote distribution
D (44%)

B (37%)

C (20%)

😑 🛔 Bezha (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: D

- A Magnetic Max IOPS 200 Wrong
- B gp3 Max IOPS 16000 per volume Wrong
- C RDS not supported io2 Wrong
- D Correct; 2 gp3 volume with 16 000 each 2*16000 = 32 000 IOPS

upvoted 33 times

😑 🌲 dkw2342 3 months, 1 week ago

I really wonder how this answer can be the top answer. How would it even be possible to provision multiple gp3 volumes for RDS? RDS manages the storage, we have no influence on the number of volumes.

Striping is something that RDS does automatically depending on storage class and volume size: "When you select General Purpose SSD or Provisioned IOPS SSD, depending on the engine selected and the amount of storage requested, Amazon RDS automatically stripes across multiple volumes to enhance performance (...)"

For MariaDB with 400 to 64,000 GiB of gp3 storage, RDS automatically provisions 4 volumes. This gives us 12,000 IOPS *baseline* and can be increased up to 64,000 *provisioned* IOPS.

RDS does not support io2.

Therefore: Option B upvoted 2 times

😑 👗 dkw2342 3 months, 1 week ago

PS: https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html upvoted 1 times

😑 🚢 zits88 2 months, 1 week ago

It must be that io2 was originally not supported by RDS, because I see this untruth reposted everywhere. It totally is. upvoted 2 times

😑 💄 joechen2023 12 months ago

https://repost.aws/knowledge-center/ebs-volume-type-differences RDS does support io2 upvoted 2 times

➡ ▲ wRhIH 11 months, 3 weeks ago that Link is to EBS instead of RDS

upvoted 5 times

😑 🌲 baba365 8 months, 3 weeks ago

'the application performance always degrades when the number of read and write IOPS is higher than 20,000' ... question didn't say read and write IOPs can't be higher than 32,000. Answer: C if it's based on performance and not cost related.

'Amazon RDS provides three storage types: General Purpose SSD (also known as gp2 and gp3), Provisioned IOPS SSD (also known as io1), and magnetic (also known as standard). They differ in performance characteristics and price, which means that you can tailor your storage performance and cost to the needs of your database workload.'

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html

upvoted 1 times

😑 👗 Michal_L_95 (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: B

It can not be option C as RDS does not support io2 storage type (only io1).

Here is a link to the RDS storage documentation: https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html Also it is not the best option to take Magnetic storage as it supports max 1000 IOPS.

I vote for option B as gp3 storage type supports up to 64 000 IOPS where question mentioned with problem at level of 20 000. upvoted 13 times

😑 💄 joechen2023 12 months ago

check the link below https://repost.aws/knowledge-center/ebs-volume-type-differences it states:

General Purpose SSD volumes are good for a wide variety of transactional workloads that require less than the following:

16,000 IOPS 1,000 MiB/s of throughput 160-TiB volume size upvoted 1 times

😑 💄 GalileoEC2 1 year, 2 months ago

is this true? Amazon RDS (Relational Database Service) supports the Provisioned IOPS SSD (io2) storage type for its database instances. The io2 storage type is designed to deliver predictable performance for critical and highly demanding database workloads. It provides higher durability higher IOPS, and lower latency compared to other Amazon EBS (Elastic Block Store) storage types. RDS offers the option to choose between the General Purpose SSD (gp3) and Provisioned IOPS SSD (io2) storage types for database instances.

😑 💄 1rob 5 months ago

Please add a reference where it states that io2 is supported by RDS. upvoted 1 times

😑 💄 zits88 2 months, 1 week ago

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html - Right there in the first paragraph: "Amazon RDS provides three storage types: General Purpose SSD (also known as gp2 and gp3), Provisioned IOPS SSD (also known as io1 and io2 Block Express), and magnetic (also known as standard). They differ in performance characteristics and price, which means that you can tailor your storage performance and cost to the needs of your database workload. You can create Db2, MySQL, MariaDB, Oracle, and PostgreSQL RDS DB instances with up to 64 tebibytes (TiB) of storage. "

upvoted 3 times

😑 🛔 Scheldon Most Recent 🕗 2 weeks, 6 days ago

Selected Answer: C

Per the newest info it should be C right now

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html upvoted 1 times

😑 🌲 stalk98 1 month, 1 week ago

ChatGpt says B upvoted 1 times

😑 💄 zits88 2 months, 1 week ago

Selected Answer: C

io2 is now supported by RDS as of 2024. It wasn't at one point, but people need to check the docs when they start saying it's not supported. Just because it was once true does not mean that it still is.

upvoted 6 times

😑 🌲 Skip 2 months, 4 weeks ago

Hey I don't think the io2 restiction exist anymore, as from March 2024. See below....

https://aws.amazon.com/blogs/aws/amazon-rds-now-supports-io2-block-express-volumes-for-mission-critical-databaseworkloads/#:~:text=1%20io2%20Block%20Express%20volumes%20are%20available%20on,of%20IOPS%20to%20allocated%20storage%20is%2050 0%3A1.%20

upvoted 5 times

😑 💄 zits88 2 months, 1 week ago

Thank you, I see people saying that it is not supported everywhere. Now, a whole 'nother thing is whether AWS has updated SAA to reflect thes changes. Given how terribly a lot of the REAL EXAM QUESTIONS are written, I wouldn't be surprised if they have NOT updated the exam at all upvoted 2 times

😑 💄 Iprina 3 months ago

If you reached this discussion after March 5th, RDS supports io2 now:https://aws.amazon.com/blogs/aws/amazon-rds-now-supports-io2-block-express-volumes-for-mission-critical-database-workloads/

upvoted 3 times

😑 🌲 pichipati 3 months, 1 week ago

Selected Answer: D

Answer D upvoted 1 times

😑 💄 Uzbekistan 3 months, 1 week ago

Selected Answer: C

Option C. Replace the volume with a Provisioned IOPS SSD (io2) volume.

Provisioned IOPS SSD (io2) volumes allow you to specify a consistent level of IOPS to meet performance requirements. By provisioning the necessary IOPS, you can ensure that the database performance remains stable even during periods of high demand. This solution addresses the issue of performance degradation when the number of read and write IOPS exceeds 20,000.

upvoted 1 times

😑 🌲 sidharthwader 2 months, 2 weeks ago

RDS does not support io2 volume upvoted 1 times

😑 💄 zits88 2 months, 1 week ago

No longer true as of 2024. It is supported now. Says right here in the first paragraphs: https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html upvoted 1 times

E 🌢 MikeJANG 4 months ago

Selected Answer: C

GPT4

Option B is incorrect because it does not address the app's need for more than 20000 iops, which is the maximum capa of gp3 volmes. Option D might appear to be more economical, it does not address the core isuue of needing more than 20000 iops. Provisioned IOPS SSD(io2) volume resolves the perfomance issues without requiring additional management overhead or future scaling concerns, may be the more cost-effective solution in th long run.

upvoted 2 times

😑 🌲 frmrkc 4 months, 2 weeks ago

Selected Answer: B

https://aws.amazon.com/ebs/general-purpose/

'For use cases where your application needs more performance than the baseline, you simply provision the IOPS or throughput you need, without having to add more capacity.'

upvoted 1 times

😑 🌲 paexamtopics 4 months, 4 weeks ago

Selected Answer: D

this case is 2000GB storage size, no other option support more iops. so it is D. upvoted 3 times

😑 👗 anikolov 5 months ago

Selected Answer: B

Looks that gp3 IOPS can be extend to provisioned 64k IOPS, based on RDS gp3 info on the below link: https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html#Concepts.Storage.GeneralSSD upvoted 1 times

😑 🌲 paexamtopics 4 months, 4 weeks ago

however the IOPS is depends the DB storage size, it is 2000GB in this case, so it can be extended. Between 1,336 and 3,999 GiB 4008-11,997 IOPS upvoted 2 times

😑 💄 anikolov 4 months, 1 week ago

You are right, but it is for gp2. For gp3 we have the followings (from above link second table) DB engine: MariaDB, MySQL, and PostgreSQL Storage size: 400 GiB and higher Baseline storage performance: 12,000 IOPS/500 MiB/s Range of Provisioned IOPS: 12,000–64,000 IOPS upvoted 1 times

😑 💄 1rob 5 months, 1 week ago

Selected Answer: B

The RDS has 2,000 GB of storage which means it is already striped automatically (see table on https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html) so this rules out option D. Option C will not work because RDS does not support io2. (6 jan 2024) B is feasible, you can modify the IOPS. A is not feasible as magnetic drives is for backwards compatibility and does not support high IOPS. upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

It is striped per volume which means 1 volume of 2000GB will give 12000iops whereas 2 volumes of 1000GB will give 2x12000 iops. This is because the threshold for striping is 400GB per volume.

B is not at all possible as you CANNOT modify the iops. iops are defined based on capacity configuration as per the article in your link. upvoted 1 times

😑 💄 awsgeek75 5 months, 1 week ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html

"When you select General Purpose SSD or Provisioned IOPS SSD, depending on the engine selected and the amount of storage requested, Amazo RDS automatically stripes across multiple volumes to enhance performance, as shown in the following table."

If you split the volume for GP3, the RDS will stripe (split across) for max performance. Hence choice is D.

A: not an optionB: Not possible to increase IOPS. These are determined by size of volumeC: IO2 is not an option for RDS (any engine)upvoted 2 times

😑 💄 pentium75 5 months, 2 weeks ago

Selected Answer: D

gp3 (B) allows max 16000 io2 (C) not supported by RDS upvoted 2 times

😑 💄 master9 5 months, 2 weeks ago

Selected Answer: C

Provisioned IOPS SSD (io2) volumes are supported for Amazon RDS for MySQL Multi-AZ DB instances. They are designed to meet the needs of I/O-intensive workloads, particularly database workloads, that require low I/O latency and consistent I/O throughput.

For I/O-intensive workloads, you can use Provisioned IOPS SSD io1 storage and achieve up to 256,000 I/O operations per second (IOPS). The throughput of io1 volumes varies based on the amount of IOPS provisioned per volume and on the size of the IO operations being executed. upvoted 1 times

😑 👗 master9 5 months, 2 weeks ago

https://aws.amazon.com/ebs/provisioned-iops/ upvoted 1 times

Question #395

An IAM user made several configuration changes to AWS resources in their company's account during a production deployment last week. A solutions architect learned that a couple of security group rules are not configured as desired. The solutions architect wants to confirm which IAM user was responsible for making changes.

Which service should the solutions architect use to find the desired information?

- A. Amazon GuardDuty
- B. Amazon Inspector
- C. AWS CloudTrail
- D. AWS Config

Correct Answer: *B*

Community vote distribution

C (100%)

😑 👗 cegama543 (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: C C. AWS CloudTrail

The best option is to use AWS CloudTrail to find the desired information. AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of AWS account activities. CloudTrail can be used to log all changes made to resources in an AWS account, including changes made by IAM users, EC2 instances, AWS management console, and other AWS services. By using CloudTrail, the solutions architect can identify the IAM user who made the configuration changes to the security group rules.

upvoted 11 times

😑 🛔 BatVanyo (Most Recent 🕗 1 month, 3 weeks ago

Selected Answer: C

I was initially a bit confused on what Config and CloudTrail actually do, as both can be used to track configuration changes. However, this explanation is probably the best one I have come across so far: "Config reports on what has changed, whereas CloudTrail reports on who made the change, when, and from which location"

Since the question is which IAM user was responsible for making the changes, the answer is CloudTrail. upvoted 2 times

😑 💄 d401c0d 2 months, 1 week ago

Selected Answer: C

CloudTrail = which user made which api calls. This is used for audit purpose. upvoted 2 times

😑 👗 sheq 6 months ago

This question is the same with the question 388, isn't it? upvoted 1 times

😑 🏝 kambarami 8 months, 4 weeks ago

This is how you know not to trust the moderators with their answers. upvoted 1 times

😑 💄 Wayne23Fang 9 months ago

There is an article "How to use AWS Config and CloudTrail to find who made changes to a resource" in aws blog. Given CloudTrail provided AWS config original info, it seems for this particular one, C is better than AWS config.

upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

AWS CloudTrail is the correct service to use here to identify which user was responsible for the security group configuration changes upvoted 1 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: C

AWS CloudTrail

upvoted 1 times

😑 💄 Bezha 1 year, 2 months ago

Selected Answer: C

AWS CloudTrail upvoted 1 times

😑 🛔 [Removed] 1 year, 3 months ago

Selected Answer: C

C. AWS CloudTrail upvoted 2 times

😑 🌲 kprakashbehera 1 year, 3 months ago

Selected Answer: C

CloudTrail logs will tell who did that upvoted 2 times

😑 🌲 KAUS2 1 year, 3 months ago

Selected Answer: C

Option "C" AWS CloudTrail is correct. upvoted 2 times

😑 💄 Nithin1119 1 year, 3 months ago

cccccc upvoted 2 times

A company has implemented a self-managed DNS service on AWS. The solution consists of the following:

- Amazon EC2 instances in different AWS Regions
- Endpoints of a standard accelerator in AWS Global Accelerator

The company wants to protect the solution against DDoS attacks.

What should a solutions architect do to meet this requirement?

A. Subscribe to AWS Shield Advanced. Add the accelerator as a resource to protect.

B. Subscribe to AWS Shield Advanced. Add the EC2 instances as resources to protect.

C. Create an AWS WAF web ACL that includes a rate-based rule. Associate the web ACL with the accelerator.

D. Create an AWS WAF web ACL that includes a rate-based rule. Associate the web ACL with the EC2 instances.

Correct Answer: A

Community vote distribution

4%

😑 🆀 WherecanIstart (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: A

DDoS attacks = AWS Shield Advance Shield Advance protects Global Accelerator, NLB, ALB, etc upvoted 12 times

A (96%)

E & pentium75 Most Recent (2) 5 months, 2 weeks ago

Selected Answer: A

Global Accelerator is what is exposed to the Internet = where DDoS attacks could land = what must be protected by Shield Advanced upvoted 2 times

Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

So, the correct option is:

B. Subscribe to AWS Shield Advanced. Add the EC2 instances as resources to protect.

Here's why this option is the most appropriate:

A. While you can add the accelerator as a resource to protect with AWS Shield Advanced, it's generally more effective to protect the individual resources (in this case, the EC2 instances) because AWS Shield Advanced will automatically protect resources associated with Global Accelerator upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Which EC2 instance? Global Accelerator works by providing anycast IP addresses for the underlying resource (our EC2 in this case) so every end user trying to reach the EC2 server HAS to go through the Global Accelerator which is why the Global Accelerator needs to be protected and not the EC2.

upvoted 3 times

😑 🌲 Abrar2022 1 year ago

Selected Answer: A

DDoS attacks = AWS Shield Advance resource as Global Acc upvoted 4 times

😑 🏝 TariqKipkemei 1 year ago

Selected Answer: A

DDoS attacks = AWS Shield Advanced upvoted 3 times

😑 💄 nileshlg 1 year, 2 months ago

Selected Answer: A

Answer is A

https://docs.aws.amazon.com/waf/latest/developerguide/ddos-event-mitigation-logic-gax.html

upvoted 1 times

🖃 👗 **ktulu2602** 1 year, 3 months ago

Selected Answer: A

AWS Shield is a managed service that provides protection against Distributed Denial of Service (DDoS) attacks for applications running on AWS. AWS Shield Standard is automatically enabled to all AWS customers at no additional cost. AWS Shield Advanced is an optional paid service. AWS Shield Advanced provides additional protections against more sophisticated and larger attacks for your applications running on Amazon Elastic Compute Cloud (EC2), Elastic Load Balancing (ELB), Amazon CloudFront, AWS Global Accelerator, and Route 53. upvoted 3 times

😑 上 [Removed] 1 year, 3 months ago

Selected Answer: A

aaaaa accelator can not be attached to shield upvoted 2 times

😑 💄 [Removed] 1 year, 3 months ago

bbbbbbbbb upvoted 1 times

😑 💄 enzomv 1 year, 3 months ago

Your origin servers can be Amazon Simple Storage Service (S3), Amazon EC2, Elastic Load Balancing, or a custom server outside of AWS. You can also enable AWS Shield Advanced directly on Elastic Load Balancing or Amazon EC2 in the following AWS Regions - Northern Virginia, Ohio, Oregon, Northern California, Montreal, São Paulo, Ireland, Frankfurt, London, Paris, Stockholm, Singapore, Tokyo, Sydney, Seoul, Mumbai, Milan, and Cape Town.

My answer is B

upvoted 2 times

😑 💄 enzomv 1 year, 3 months ago

https://docs.aws.amazon.com/waf/latest/developerguide/ddos-event-mitigation-logic-gax.html

Sorry I meant A upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

You CAN enable Shield Advanced directly on EC2. You CAN also expose EC2 instances directly to the Internet. But in this case, what is exposed to the Internet (= where DDoS attacks could land) is the Global Accelerator, not your EC2 instances. upvoted 2 times

😑 💄 ktulu2602 1 year, 3 months ago

Yes it can:

AWS Shield is a managed service that provides protection against Distributed Denial of Service (DDoS) attacks for applications running on AWS AWS Shield Standard is automatically enabled to all AWS customers at no additional cost. AWS Shield Advanced is an optional paid service. AW Shield Advanced provides additional protections against more sophisticated and larger attacks for your applications running on Amazon Elastic Compute Cloud (EC2), Elastic Load Balancing (ELB), Amazon CloudFront, AWS Global Accelerator, and Route 53. upvoted 1 times

An ecommerce company needs to run a scheduled daily job to aggregate and filter sales records for analytics. The company stores the sales records in an Amazon S3 bucket. Each object can be up to 10 GB in size. Based on the number of sales events, the job can take up to an hour to complete. The CPU and memory usage of the job are constant and are known in advance.

A solutions architect needs to minimize the amount of operational effort that is needed for the job to run.

Which solution meets these requirements?

A. Create an AWS Lambda function that has an Amazon EventBridge notification. Schedule the EventBridge event to run once a day.

B. Create an AWS Lambda function. Create an Amazon API Gateway HTTP API, and integrate the API with the function. Create an Amazon EventBridge scheduled event that calls the API and invokes the function.

C. Create an Amazon Elastic Container Service (Amazon ECS) cluster with an AWS Fargate launch type. Create an Amazon EventBridge scheduled event that launches an ECS task on the cluster to run the job.

D. Create an Amazon Elastic Container Service (Amazon ECS) cluster with an Amazon EC2 launch type and an Auto Scaling group with at least one EC2 instance. Create an Amazon EventBridge scheduled event that launches an ECS task on the cluster to run the job.

Correct Answer: C

Community vote distribution

C (100%)

😑 🛔 ktulu2602 [Highly Voted 🖬] 1 year, 3 months ago

Selected Answer: C

The requirement is to run a daily scheduled job to aggregate and filter sales records for analytics in the most efficient way possible. Based on the requirement, we can eliminate option A and B since they use AWS Lambda which has a limit of 15 minutes of execution time, which may not be sufficient for a job that can take up to an hour to complete.

Between options C and D, option C is the better choice since it uses AWS Fargate which is a serverless compute engine for containers that eliminates the need to manage the underlying EC2 instances, making it a low operational effort solution. Additionally, Fargate also provides instan scale-up and scale-down capabilities to run the scheduled job as per the requirement.

Therefore, the correct answer is:

C. Create an Amazon Elastic Container Service (Amazon ECS) cluster with an AWS Fargate launch type. Create an Amazon EventBridge scheduled event that launches an ECS task on the cluster to run the job. upvoted 23 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months, 1 week ago

Selected Answer: C

A&B are out due to Lambda 15 min limits

C is less operationally complex than D so C is the right answer. Fargate is managed ECS cluster whereas EC2 based ECS will require more config overhead.

upvoted 2 times

🖃 👗 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

C. Create an Amazon Elastic Container Service (Amazon ECS) cluster with an AWS Fargate launch type. Create an Amazon EventBridge scheduled event that launches an ECS task on the cluster to run the job

upvoted 1 times

😑 🌡 TarigKipkemei 1 year ago

Selected Answer: C

The best option is C.

'The job can take up to an hour to complete' rules out lambda functions as they only execute up to 15 mins. Hence option A and B are out. 'The CPU and memory usage of the job are constant and are known in advance' rules out the need for autoscaling. Hence option D is out. upvoted 3 times

😑 🌲 imvb88 1 year, 1 month ago

Selected Answer: C

"1-hour job" -> A, B out since max duration for Lambda is 15 min

Between C and D, "minimize operational effort" means Fargate -> C upvoted 4 times

😑 💄 klayytech 1 year, 2 months ago

Selected Answer: C

The solution that meets the requirements with the least operational overhead is to create a **Regional AWS WAF web ACL with a rate-based rule** and associate the web ACL with the API Gateway stage. This solution will protect the application from HTTP flood attacks by monitoring incoming requests and blocking requests from IP addresses that exceed the predefined rate.

Amazon CloudFront distribution with Lambda@Edge in front of the API Gateway Regional API endpoint is also a good solution but it requires mor operational overhead than the previous solution.

Using Amazon CloudWatch metrics to monitor the Count metric and alerting the security team when the predefined rate is reached is not a solution that can protect against HTTP flood attacks.

Creating an Amazon CloudFront distribution in front of the API Gateway Regional API endpoint with a maximum TTL of 24 hours is not a solution that can protect against HTTP flood attacks.

upvoted 1 times

😑 👗 klayytech 1 year, 2 months ago

Selected Answer: C

The solution that meets these requirements is C. Create an Amazon Elastic Container Service (Amazon ECS) cluster with an AWS Fargate launch type. Create an Amazon EventBridge scheduled event that launches an ECS task on the cluster to run the job. This solution will minimize the amount of operational effort that is needed for the job to run.

AWS Lambda which has a limit of 15 minutes of execution time, upvoted 1 times

Which solution meets these requirements MOST cost-effectively?

A. Use Amazon S3 multi-part upload functionality to transfer the files over HTTPS.

B. Create a VPN connection between the on-premises NAS system and the nearest AWS Region. Transfer the data over the VPN connection.

C. Use the AWS Snow Family console to order several AWS Snowball Edge Storage Optimized devices. Use the devices to transfer the data to Amazon S3.

D. Set up a 10 Gbps AWS Direct Connect connection between the company location and the nearest AWS Region. Transfer the data over a VPN connection into the Region to store the data in Amazon S3.

Correct Answer: *B*

Community vote distribution

C (100%)

😑 👗 shanwford (Highly Voted 🐽) 1 year, 2 months ago

Selected Answer: C

With the existing data link the transfer takes ~ 600 days in the best case. Thus, (A) and (B) are not applicable. Solution (D) could meet the target with a transfer time of 6 days, but the lead time for the direct connect deployment can take weeks! Thus, (C) is the only valid solution. upvoted 10 times

😑 👗 Guru4Cloud (Most Recent 🕐) 9 months, 2 weeks ago

Selected Answer: C

Use the AWS Snow Family console to order several AWS Snowball Edge Storage Optimized devices. Use the devices to transfer the data to Amazor S3.

upvoted 1 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: C

C is the best option considering the time and bandwidth limitations upvoted 1 times

😑 🌲 pbpally 1 year, 1 month ago

Selected Answer: C

We need the admin in here to tell us how they plan on this being achieved over connection with such a slow connection lol. It's C, folks.

upvoted 2 times

😑 💄 KAUS2 1 year, 3 months ago

Selected Answer: C

Best option is to use multiple AWS Snowball Edge Storage Optimized devices. Option "C" is the correct one. upvoted 1 times

😑 🌲 ktulu2602 1 year, 3 months ago

Selected Answer: C

All others are limited by the bandwidth limit upvoted 1 times

ktulu2602 1 year, 3 months ago Or provisioning time in the D case upvoted 1 times

KZM 1 year, 3 months ago It is C. Snowball (from Snow Family). upvoted 1 times

😑 💄 cegama543 1 year, 3 months ago

Selected Answer: C

C. Use the AWS Snow Family console to order several AWS Snowball Edge Storage Optimized devices. Use the devices to transfer the data to Amazon S3.

The best option is to use the AWS Snow Family console to order several AWS Snowball Edge Storage Optimized devices and use the devices to transfer the data to Amazon S3. Snowball Edge is a petabyte-scale data transfer device that can help transfer large amounts of data securely and quickly. Using Snowball Edge can be the most cost-effective solution for transferring large amounts of data over long distances and can help meet the requirement of transferring 600 TB of data within two weeks. upvoted 3 times

A financial company hosts a web application on AWS. The application uses an Amazon API Gateway Regional API endpoint to give users the ability to retrieve current stock prices. The company's security team has noticed an increase in the number of API requests. The security team is concerned that HTTP flood attacks might take the application offline.

A solutions architect must design a solution to protect the application from this type of attack.

Which solution meets these requirements with the LEAST operational overhead?

A. Create an Amazon CloudFront distribution in front of the API Gateway Regional API endpoint with a maximum TTL of 24 hours.

B. Create a Regional AWS WAF web ACL with a rate-based rule. Associate the web ACL with the API Gateway stage.

C. Use Amazon CloudWatch metrics to monitor the Count metric and alert the security team when the predefined rate is reached.

D. Create an Amazon CloudFront distribution with Lambda@Edge in front of the API Gateway Regional API endpoint. Create an AWS Lambda function to block requests from IP addresses that exceed the predefined rate.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 2 weeks ago

Selected Answer: B

Regional AWS WAF web ACL is a managed web application firewall that can be used to protect your API Gateway API from a variety of attacks, including HTTP flood attacks.

Rate-based rule is a type of rule that can be used to limit the number of requests that can be made from a single IP address within a specified period of time.

API Gateway stage is a logical grouping of API resources that can be used to control access to your API.

upvoted 8 times

😑 🌲 TariqKipkemei (Most Recent 🕗) 1 year ago

Selected Answer: B

Answer is B upvoted 1 times

😑 💄 maxicalypse 1 year, 2 months ago

B os correct upvoted 1 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: B

A rate-based rule in AWS WAF allows the security team to configure thresholds that trigger rate-based rules, which enable AWS WAF to track the rate of requests for a specified time period and then block them automatically when the threshold is exceeded. This provides the ability to prevent HTTP flood attacks with minimal operational overhead.

upvoted 4 times

😑 💄 kampatra 1 year, 2 months ago

Selected Answer: B

https://docs.aws.amazon.com/waf/latest/developerguide/web-acl.html upvoted 1 times

🖃 👗 [Removed] 1 year, 3 months ago

Selected Answer: B

bbbbbbbb

upvoted 3 times

A meteorological startup company has a custom web application to sell weather data to its users online. The company uses Amazon DynamoDB to store its data and wants to build a new service that sends an alert to the managers of four internal teams every time a new weather event is recorded. The company does not want this new service to affect the performance of the current application.

What should a solutions architect do to meet these requirements with the LEAST amount of operational overhead?

A. Use DynamoDB transactions to write new event data to the table. Configure the transactions to notify internal teams.

B. Have the current application publish a message to four Amazon Simple Notification Service (Amazon SNS) topics. Have each team subscribe to one topic.

C. Enable Amazon DynamoDB Streams on the table. Use triggers to write to a single Amazon Simple Notification Service (Amazon SNS) topic to which the teams can subscribe.

D. Add a custom attribute to each record to flag new items. Write a cron job that scans the table every minute for items that are new and notifies an Amazon Simple Queue Service (Amazon SQS) queue to which the teams can subscribe.

Correct Answer: C

Community vote distribution

C (100%)

😑 👗 Buruguduystunstugudunstuy (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: C

The best solution to meet these requirements with the least amount of operational overhead is to enable Amazon DynamoDB Streams on the table and use triggers to write to a single Amazon Simple Notification Service (Amazon SNS) topic to which the teams can subscribe. This solution requires minimal configuration and infrastructure setup, and Amazon DynamoDB Streams provide a low-latency way to capture changes to the DynamoDB table. The triggers automatically capture the changes and publish them to the SNS topic, which notifies the internal teams. upvoted 13 times

😑 🚢 Buruguduystunstugudunstuy 1 year, 2 months ago

Answer A is not a suitable solution because it requires additional configuration to notify the internal teams, and it could add operational overhead to the application.

Answer B is not the best solution because it requires changes to the current application, which may affect its performance, and it creates additional work for the teams to subscribe to multiple topics.

Answer D is not a good solution because it requires a cron job to scan the table every minute, which adds additional operational overhead to the system.

Therefore, the correct answer is C. Enable Amazon DynamoDB Streams on the table. Use triggers to write to a single Amazon SNS topic to whic the teams can subscribe.

upvoted 5 times

😑 👗 Guru4Cloud (Most Recent 🕐) 9 months, 2 weeks ago

Selected Answer: C

Enable Amazon DynamoDB Streams on the table. Use triggers to write to a single Amazon Simple Notification Service (Amazon SNS) topic to whic the teams can subscribe

upvoted 3 times

😑 🌲 james2033 10 months, 4 weeks ago

Selected Answer: C

Question keyword: "sends an alert", a new weather event is recorded". Answer keyword C "Amazon DynamoDB Streams on the table", "Amazon Simple Notification Service" (Amazon SNS). Choose C. Easy question.

https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/Streams.html

https://aws.amazon.com/blogs/database/dynamodb-streams-use-cases-and-design-patterns/ upvoted 3 times

😑 🏝 TariqKipkemei 1 year ago

Selected Answer: C

Best answer is C upvoted 2 times

E **L** TariqKipkemei 7 months, 3 weeks ago

DynamoDB Streams captures a time-ordered sequence of item-level modifications in any DynamoDB table and stores this information in a log for up to 24 hours. This capture activity can also invoke triggers to write the event to a single Amazon Simple Notification Service (Amazon SNS topic to which the teams can subscribe to.

upvoted 5 times

😑 🖀 Hemanthgowda1932 1 year, 2 months ago

C is correct upvoted 1 times

😑 👗 Santosh43 1 year, 2 months ago

definitely C upvoted 1 times

😑 🌲 Bezha 1 year, 2 months ago

Selected Answer: C

DynamoDB Streams upvoted 3 times

😑 🌲 sitha 1 year, 3 months ago

Selected Answer: C

Answer : C upvoted 1 times

😑 🌲 [Removed] 1 year, 3 months ago

Selected Answer: C

ccccccc

upvoted 1 times

The company needs a solution that avoids any single points of failure. The solution must give the application the ability to scale to meet user demand.

Which solution will meet these requirements?

A. Deploy the application servers by using Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones. Use an Amazon RDS DB instance in a Multi-AZ configuration.

B. Deploy the application servers by using Amazon EC2 instances in an Auto Scaling group in a single Availability Zone. Deploy the database on an EC2 instance. Enable EC2 Auto Recovery.

C. Deploy the application servers by using Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones. Use an Amazon RDS DB instance with a read replica in a single Availability Zone. Promote the read replica to replace the primary DB instance if the primary DB instance fails.

D. Deploy the application servers by using Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones. Deploy the primary and secondary database servers on EC2 instances across multiple Availability Zones. Use Amazon Elastic Block Store (Amazon EBS) Multi-Attach to create shared storage between the instances.

Corre	ect Answer: A			
Со	ommunity vote distribution			
	A (90%)	5%		

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: A

B has app servers in a single AZ and a database on a single instance

C has both DB replicas in a single AZ

D does not work (EBS Multi-Attach requires EC2 instances in same AZ), and if it would work then the EBS volume would be an SPOF upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: A

Deploy the application servers by using Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones. Use an Amazon RDS DE instance in a Multi-AZ configuration

upvoted 2 times

😑 📥 czyboi 10 months, 1 week ago

Why is C incorrect ? upvoted 1 times

😑 🆀 Guru4Cloud 9 months, 2 weeks ago

C is incorrect because the read replica also resides in a single AZ upvoted 3 times

😑 🏝 antropaws 1 year ago

Selected Answer: A

A most def.

upvoted 2 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: A

Deploy the application servers by using Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones. Use an Amazon RDS DE instance in a Multi-AZ configuration.

upvoted 2 times

😑 🆀 Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: A

The correct answer is A. Deploy the application servers by using Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones. Use an Amazon RDS DB instance in a Multi-AZ configuration.

To make an existing application highly available and resilient while avoiding any single points of failure and giving the application the ability to scale to meet user demand, the best solution would be to deploy the application servers using Amazon EC2 instances in an Auto Scaling group across multiple Availability Zones and use an Amazon RDS DB instance in a Multi-AZ configuration.

By using an Amazon RDS DB instance in a Multi-AZ configuration, the database is automatically replicated across multiple Availability Zones, ensuring that the database is highly available and can withstand the failure of a single Availability Zone. This provides fault tolerance and avoids any single points of failure.

upvoted 2 times

😑 🌡 Thief 1 year, 2 months ago

Selected Answer: D

Why not D? upvoted 1 times

😑 💄 Buruguduystunstugudunstuy 1 year, 2 months ago

Answer D, deploying the primary and secondary database servers on EC2 instances across multiple Availability Zones and using Amazon Elastic Block Store (Amazon EBS) Multi-Attach to create shared storage between the instances, may provide high availability for the database but may introduce additional complexity, and management overhead, and potential performance issues. upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

D is incorrect because using Multi-Attach EBS adds complexity and doesn't provide automatic DB failover upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

Multi-Attach does not work across Availability Zones. upvoted 1 times

😑 🌲 WherecanIstart 1 year, 2 months ago

Selected Answer: A

Highly available = Multi-AZ approach upvoted 2 times

😑 💄 nileshlg 1 year, 2 months ago

Selected Answer: A Answers is A

upvoted 1 times

😑 👗 [Removed] 1 year, 2 months ago

Selected Answer: A

Option A is the correct solution. Deploying the application servers in an Auto Scaling group across multiple Availability Zones (AZs) ensures high availability and fault tolerance. An Auto Scaling group allows the application to scale horizontally to meet user demand. Using Amazon RDS DB instance in a Multi-AZ configuration ensures that the database is automatically replicated to a standby instance in a different AZ. This provides database redundancy and avoids any single point of failure.

upvoted 1 times

😑 💄 quentin17 1 year, 3 months ago

Selected Answer: C

Highly available upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

No because instance and read replica "in a single Availability Zone" upvoted 1 times

😑 🌲 KAUS2 1 year, 3 months ago

Selected Answer: A

Yes , agree with A upvoted 1 times

😑 👗 cegama543 1 year, 3 months ago

Selected Answer: A

agree with that

upvoted 1 times

What should a solutions architect do to resolve this issue?

A. Update the Kinesis Data Streams default settings by modifying the data retention period.

B. Update the application to use the Kinesis Producer Library (KPL) to send the data to Kinesis Data Streams.

C. Update the number of Kinesis shards to handle the throughput of the data that is sent to Kinesis Data Streams.

D. Turn on S3 Versioning within the S3 bucket to preserve every version of every object that is ingested in the S3 bucket.

Correct Answer: A

Community vote distribution

C (31%)

😑 🆀 WherecanIstart (Highly Voted 🖬) 1 year, 2 months ago

A (66%)

Selected Answer: A

"A Kinesis data stream stores records from 24 hours by default, up to 8760 hours (365 days)." https://docs.aws.amazon.com/streams/latest/dev/kinesis-extended-retention.html

The question mentioned Kinesis data stream default settings and "every other day". After 24hrs, the data isn't in the Data stream if the default settings is not modified to store data more than 24hrs. upvoted 24 times

upvoted 24 times

E & cegama543 (Highly Voted 🖬 1 year, 3 months ago

Selected Answer: C

C. Update the number of Kinesis shards to handle the throughput of the data that is sent to Kinesis Data Streams.

The best option is to update the number of Kinesis shards to handle the throughput of the data that is sent to Kinesis Data Streams. Kinesis Data Streams scales horizontally by increasing or decreasing the number of shards, which controls the throughput capacity of the stream. By increasing the number of shards, the application will be able to send more data to Kinesis Data Streams, which can help ensure that S3 receives all the data. upvoted 15 times

😑 🛔 Buruguduystunstugudunstuy 1 year, 2 months ago

Answer C:

C. Update the number of Kinesis shards to handle the throughput of the data that is sent to Kinesis Data Streams.

- Answer C updates the number of Kinesis shards to handle the throughput of the data that is sent to Kinesis Data Streams. By increasing the number of shards, the data is distributed across multiple shards, which allows for increased throughput and ensures that all data is ingested and processed by Kinesis Data Streams.

- Monitoring the Kinesis Data Streams and adjusting the number of shards as needed to handle changes in data throughput can ensure that the application can handle large amounts of streaming data.

upvoted 2 times

😑 🚢 Buruguduystunstugudunstuy 1 year, 2 months ago

@cegama543, my apologies. Moderator if you can disapprove of the post above? I made a mistake. It is supposed to be intended on the

post that I submitted.

Thanks. upvoted 2 times

😑 🆀 CapJackSparrow 1 year, 2 months ago

lets say you had infinity shards... if the retention period is 24 hours and you get the data every 48 hours, you will lose 24 hours of data no matter the amount of shards no?

upvoted 14 times

😑 💄 enzomv 1 year, 2 months ago

Amazon Kinesis Data Streams supports changes to the data record retention period of your data stream. A Kinesis data stream is an ordered sequence of data records meant to be written to and read from in real time. Data records are therefore stored in shards in your stream temporarily. The time period from when a record is added to when it is no longer accessible is called the retention period. A Kinesis data stream stores records from 24 hours by default, up to 8760 hours (365 days).

upvoted 4 times



Selected Answer: A

Every other day, = 48 hours Default settings = 24 hours

B: Development library so won't help

C: More shards may retain more data but they will have same limitation of 24 hours retention D: Irrelevant

A: Increase the default limit from 24 hours to 48 hours upvoted 5 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: A

"Default settings" = 24 hour retention upvoted 3 times

😑 🌲 Murtadhaceit 6 months, 1 week ago

Selected Answer: A

KDS has two modes:

1. Provisioned Mode: Answer C would be correct if KDS runs in this mode. We need to increase the number of shards.

2. On-Demand: Scales automatically, which means it doesn't need to adjust the number of shards based on observed throughput.

And since the question does not mention which type, I would go with On-demand. Therefore, A is the correct answer. upvoted 2 times

😑 🌲 TariqKipkemei 7 months, 3 weeks ago

Selected Answer: A

Data records are stored in shards in a kinesis data stream temporarily. The time period from when a record is added, to when it is no longer accessible is called the retention period. This time period is 24 hours by default, but could be adjusted to 365 days. Kinesis Data Streams automatically scales the number of shards in response to changes in data volume and traffic, so this rules out option C.

https://docs.aws.amazon.com/streams/latest/dev/service-sizes-and-limits.html#:~:text=the%20number%20of-,shards,-in%20response%20to upvoted 1 times

😑 💄 Ramdi1 8 months, 2 weeks ago

Selected Answer: A

I have only voted A because it mentions the default setting in Kinesis, if it did not mention that then I would look to increase the Shards. By default it is 24 hours and can go to 365 days. I think the question should be rephrased slightly. I had trouble deciding between A & C. Also apparently the most voted answer is the correct answer as per some advice I was given.

upvoted 2 times

😑 🌲 BrijMohan08 9 months, 1 week ago

Selected Answer: A

Default retention is 24 hrs, but the data read is every other day, so the S3 will never receive the data, Change the default retention period to 48 hours.

upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

By default, a Kinesis data stream is created with one shard. If the data throughput to the stream is higher than the capacity of the single shard, the data stream may not be able to handle all the incoming data, and some data may be lost.

Therefore, to handle the high volume of data that the application sends to Kinesis Data Streams, the number of Kinesis shards should be increased to handle the required throughput.

Kinesis Data Streams shards are the basic units of scalability and availability. Each shard can process up to 1,000 records per second with a maximum of 1 MB of data per second. If the application is sending more data to Kinesis Data Streams than the shards can handle, then some of th data will be dropped.

upvoted 1 times

Guru4Cloud 9 months, 2 weeks ago

If you have doubts, Please read about Kinesis Data Streams shards. Ans: A is not the correct answer here upvoted 1 times

😑 🌡 Amycert 10 months ago

Selected Answer: A

the default retention period is 24 hours "The default retention period of 24 hours covers scenarios where intermittent lags in processing require catch-up with the real-time data. " so we should increment this upvoted 1 times

□ ▲ hsinchang 10 months, 3 weeks ago

Selected Answer: A

As "Default settings" is mentioned here, I vote for A. upvoted 1 times

😑 💄 jaydesai8 11 months, 1 week ago

Selected Answer: A

keyword here is - default settings and every other day and since "A Kinesis data stream stores records from 24 hours by default, up to 8760 hours (365 days)."

https://docs.aws.amazon.com/streams/latest/dev/kinesis-extended-retention.html

Will go with A upvoted 1 times

😑 💄 jayce5 1 year ago

Selected Answer: A

C is wrong because even if you update the number of Kinesis shards, you still need to change the default data retention period first. Otherwise, yo would lose data after 24 hours.

upvoted 2 times

😑 🏝 antropaws 1 year ago

Selected Answer: C

A is unrelated to the issue. The correct answer is C. upvoted 1 times

😑 💄 omoakin 1 year ago

Correct Ans. is B upvoted 1 times

😑 🏝 smd_ 1 year, 1 month ago

By default, a Kinesis data stream is created with one shard. If the data throughput to the stream is higher than the capacity of the single shard, the data stream may not be able to handle all the incoming data, and some data may be lost.

Therefore, to handle the high volume of data that the application sends to Kinesis Data Streams, the number of Kinesis shards should be increased to handle the required throughput

upvoted 2 times

😑 📥 arjundevops 1 year, 1 month ago

both Option A and Option C could be valid solutions to resolving the issue of data loss, depending on the root cause of the problem. It would be best to analyze the root cause of the data loss issue to determine which solution is most appropriate for this specific scenario. upvoted 1 times

What should a solutions architect do to grant the permissions?

- A. Add required IAM permissions in the resource policy of the Lambda function.
- B. Create a signed request using the existing IAM credentials in the Lambda function.
- C. Create a new IAM user and use the existing IAM credentials in the Lambda function.
- D. Create an IAM execution role with the required permissions and attach the IAM role to the Lambda function.

Correct Answer: A

Community vote distribution

D (100%)

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: D

Create Lambda execution role and attach existing S3 IAM role to the lambda function upvoted 1 times

😑 🆀 Buruguduystunstugudunstuy 1 year, 2 months ago

To grant the necessary permissions to an AWS Lambda function to upload files to Amazon S3, a solutions architect should create an IAM execution role with the required permissions and attach the IAM role to the Lambda function. This approach follows the principle of least privilege and ensures that the Lambda function can only access the resources it needs to perform its specific task.

Therefore, the correct answer is D. Create an IAM execution role with the required permissions and attach the IAM role to the Lambda function. upvoted 3 times

😑 💄 Bilalglg93350 1 year, 2 months ago

D. Créez un rôle d'exécution IAM avec les autorisations requises et attachez le rôle IAM à la fonction Lambda.

L'architecte de solutions doit créer un rôle d'exécution IAM ayant les autorisations nécessaires pour accéder à Amazon S3 et effectuer les opérations requises (par exemple, charger des fichiers). Ensuite, le rôle doit être associé à la fonction Lambda, de sorte que la fonction puisse assumer ce rôle et avoir les autorisations nécessaires pour interagir avec Amazon S3. upvoted 3 times

😑 🆀 nileshlg 1 year, 2 months ago

Selected Answer: D Answer is D upvoted 2 times

😑 📥 kampatra 1 year, 2 months ago

Selected Answer: D D - correct ans upvoted 2 times

😑 🌡 sitha 1 year, 3 months ago

Selected Answer: D

Create Lambda execution role and attach existing S3 IAM role to the lambda function upvoted 1 times

😑 🌲 ktulu2602 1 year, 3 months ago

Selected Answer: D

Definitely D

upvoted 2 times

😑 🎍 Nithin1119 1 year, 3 months ago

Selected Answer: D

dddddd

upvoted 1 times

😑 💄 [Removed] 1 year, 3 months ago

Selected Answer: D

ddddddd

upvoted 1 times

A company has deployed a serverless application that invokes an AWS Lambda function when new documents are uploaded to an Amazon S3 bucket. The application uses the Lambda function to process the documents. After a recent marketing campaign, the company noticed that the application did not process many of the documents.

What should a solutions architect do to improve the architecture of this application?

A. Set the Lambda function's runtime timeout value to 15 minutes.

B. Configure an S3 bucket replication policy. Stage the documents in the S3 bucket for later processing.

C. Deploy an additional Lambda function. Load balance the processing of the documents across the two Lambda functions.

D. Create an Amazon Simple Queue Service (Amazon SQS) queue. Send the requests to the queue. Configure the queue as an event source for Lambda.

Correct Answer: D

Community vote distribution

D (100%)

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: D

D. Create an Amazon Simple Queue Service (Amazon SQS) queue. Send the requests to the queue. Configure the queue as an event source for Lambd

upvoted 2 times

😑 🏝 TariqKipkemei 1 year ago

Selected Answer: D

D is the best approach upvoted 2 times

😑 🛔 Russs99 1 year, 2 months ago

Selected Answer: D

D is the correct answer upvoted 2 times

😑 💄 Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: D

To improve the architecture of this application, the best solution would be to use Amazon Simple Queue Service (Amazon SQS) to buffer the requests and decouple the S3 bucket from the Lambda function. This will ensure that the documents are not lost and can be processed at a later time if the Lambda function is not available.

This will ensure that the documents are not lost and can be processed at a later time if the Lambda function is not available. By using Amazon SQS the architecture is decoupled and the Lambda function can process the documents in a scalable and fault-tolerant manner. upvoted 4 times

😑 💄 Bilalglg93350 1 year, 2 months ago

D. Créez une file d'attente Amazon Simple Queue Service (Amazon SQS). Envoyez les demandes à la file d'attente. Configurez la file d'attente en tant que source d'événement pour Lambda.

Cette solution permet de gérer efficacement les pics de charge et d'éviter la perte de documents en cas d'augmentation soudaine du trafic. Lorsque de nouveaux documents sont chargés dans le compartiment Amazon S3, les demandes sont envoyées à la file d'attente Amazon SQS, qui agit comme un tampon. La fonction Lambda est déclenchée en fonction des événements dans la file d'attente, ce qui permet un traitement équilibré et évite que l'application ne soit submergée par un grand nombre de documents simultanés. upvoted 1 times

😑 🌲 Russs99 1 year, 2 months ago

exactement. si je pouvais explique come cela en Francais aussi upvoted 1 times

😑 🌲 Wherecanistart 1 year, 2 months ago

Selected Answer: D

D is the correct answer.

upvoted 1 times

😑 💄 kampatra 1 year, 2 months ago

Selected Answer: D

D is correct upvoted 1 times

😑 🌲 [Removed] 1 year, 3 months ago

Selected Answer: D D is correct upvoted 1 times

😑 🌲 [Removed] 1 year, 3 months ago

Selected Answer: D dddddddd upvoted 2 times

A solutions architect is designing the architecture for a software demonstration environment. The environment will run on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer (ALB). The system will experience significant increases in traffic during working hours but is not required to operate on weekends.

Which combination of actions should the solutions architect take to ensure that the system can scale to meet demand? (Choose two.)

A. Use AWS Auto Scaling to adjust the ALB capacity based on request rate.

B. Use AWS Auto Scaling to scale the capacity of the VPC internet gateway.

C. Launch the EC2 instances in multiple AWS Regions to distribute the load across Regions.

D. Use a target tracking scaling policy to scale the Auto Scaling group based on instance CPU utilization.

E. Use scheduled scaling to change the Auto Scaling group minimum, maximum, and desired capacity to zero for weekends. Revert to the default values at the start of the week.

Correct Answer: *D E* Community vote distribution DE (63%) AD (18%) Other 😑 💄 cd93 (Highly Voted 🖬) 9 months, 3 weeks ago What does "ALB capacity" even means anyway? It should be "Target Group capacity" no? Answer should be DE, as D is a more comprehensive answer (and more practical in real life) upvoted 13 times 😑 🌲 pentium75 (Highly Voted 🖬) 5 months, 2 weeks ago Selected Answer: DE Not A - "AWS Auto Scaling" cannot adjust "ALB capacity" (https://aws.amazon.com/autoscaling/faqs/) Not B - VPC internet gateway has nothing to do with this Not C - Regions have nothing to do with scaling "The system will experience significant increases in traffic during working hours" -> addressed by D "But is not required to operate on weekends" -> addressed by E upvoted 9 times 🖃 💄 foha2012 4 months, 2 weeks ago Good explanation! upvoted 1 times 😑 🌡 BigHammer (Most Recent 🕑) 9 months, 1 week ago AD E - the question doesn't ask about cost. Also, shutting it down during the weekend does nothing to improve scaling during the week. It doesn't address the requirements. upvoted 2 times 🖃 💄 Guru4Cloud 9 months, 2 weeks ago Selected Answer: DE

The solutions architect should take actions D and E:

D) Use a target tracking scaling policy to scale the Auto Scaling group based on instance CPU utilization. This will allow the Auto Scaling group to dynamically scale in and out based on demand.

E) Use scheduled scaling to change the Auto Scaling group capacity to zero on weekends when traffic is expected to be low. This will minimize costs by terminating unused instances.

upvoted 6 times

😑 🌲 fuzzycr 11 months ago

Selected Answer: AE

Basado en los requerimientos la opción que se requiere para optimizar los costos de 0 operaciones en los fines de semana upvoted 1 times

□ ▲ jaydesai8 11 months, 1 week ago

Selected Answer: DE

DE - This seems more close for the auto scaling -

A - Its says auto scaling on ALB, but it should always be on EC2 instances and not ELB upvoted 6 times

😑 👗 XaviL 11 months, 3 weeks ago

Hi guys, very simple

* A. because the question are asking abount request rate!!!! This is a requirement!

* E. The weekend is not necessary to execute anything!

A&D. Is not possible, way you can put an ALB capacity based in cpu and in request rate???? You need to select one or another option (and this is for all questions here guys!)

upvoted 3 times

😑 💄 [Removed] 11 months, 4 weeks ago

Selected Answer: AE

ALBRequestCountPerTarget—Average Application Load Balancer request count per target. https://docs.aws.amazon.com/autoscaling/ec2/userguide/as-scaling-target-tracking.html#target-tracking-choose-metrics

It is possible to set to zero. "is not required to operate on weekends" means the instances are not required during the weekends. https://docs.aws.amazon.com/autoscaling/ec2/userguide/asg-capacity-limits.html upvoted 3 times

😑 🎍 pentium75 5 months, 2 weeks ago

A says to scale "ALB capacity", not number of EC2 instances. But "AWS Auto Scaling" cannot scale ALB capacity. upvoted 1 times

😑 👗 Uzi_m 1 year ago

Option E is incorrect because the question specifically mentions an increase in traffic during working hours. Therefore, it is not advisable to schedule the instances for 24 hours using default settings throughout the entire week.

E. Use scheduled scaling to change the Auto Scaling group minimum, maximum, and desired capacity to zero for weekends. Revert to the default values at the start of the week.

upvoted 1 times

😑 🎩 omoakin 1 year ago

AD are the correct answs upvoted 3 times

😑 🏝 TariqKipkemei 1 year ago

Selected Answer: ADE

Either one or two or all of these combinations will meet the need:

Use AWS Auto Scaling to adjust the ALB capacity based on request rate.

Use a target tracking scaling policy to scale the Auto Scaling group based on instance CPU utilization.

Use scheduled scaling to change the Auto Scaling group minimum, maximum, and desired capacity to zero for weekends. Revert to the default values at the start of the week.

upvoted 2 times

😑 👗 TariqKipkemei 7 months, 3 weeks ago

Scheduled scaling was specifically designed to handle these kind of requirements.

I therefore take out target scaling.

https://docs.aws.amazon.com/autoscaling/ec2/userguide/ec2-auto-scaling-scheduled-scaling.html#:~:text=RSS-,Scheduled%20scaling,helps%20you%20to

upvoted 1 times

🖃 🌡 Joe94KR 1 year, 1 month ago

Selected Answer: DE

https://docs.aws.amazon.com/autoscaling/ec2/userguide/as-scaling-target-tracking.html#target-tracking-choose-metrics

Based on docs, ASG can't track ALB's request rate, so the answer is D&E meanwhile ASG can track CPU rates. upvoted 4 times

😑 🎩 [Removed] 1 year ago

The link shows: ALBRequestCountPerTarget—Average Application Load Balancer request count per target. upvoted 2 times

😑 🌲 kraken21 1 year, 2 months ago

Selected Answer: DE

Scaling should be at the ASG not ALB. So, not sure about "Use AWS Auto Scaling to adjust the ALB capacity based on request rate" upvoted 5 times

😑 🌡 channn 1 year, 2 months ago

Selected Answer: AD

A. Use AWS Auto Scaling to adjust the ALB capacity based on request rate: This will allow the system to scale up or down based on incoming traffic demand. The solutions architect should use AWS Auto Scaling to monitor the request rate and adjust the ALB capacity as needed.

D. Use a target tracking scaling policy to scale the Auto Scaling group based on instance CPU utilization: This will allow the system to scale up or down based on the CPU utilization of the EC2 instances in the Auto Scaling group. The solutions architect should use a target tracking scaling policy to maintain a specific CPU utilization target and adjust the number of EC2 instances in the Auto Scaling group accordingly.

😑 💄 pentium75 5 months, 2 weeks ago

Auto scaling for ALB capacity? upvoted 3 times

😑 💄 neosis91 1 year, 2 months ago

Selected Answer: AD

A. Use a target tracking scaling policy to scale the Auto Scaling group based on instance CPU utilization. This approach allows the Auto Scaling group to automatically adjust the number of instances based on the specified metric, ensuring that the system can scale to meet demand during working hours.

D. Use scheduled scaling to change the Auto Scaling group minimum, maximum, and desired capacity to zero for weekends. Revert to the default values at the start of the week. This approach allows the Auto Scaling group to reduce the number of instances to zero during weekends when traffic is expected to be low. It will help the organization to save costs by not paying for instances that are not needed during weekends.

Therefore, options A and D are the correct answers. Options B and C are not relevant to the scenario, and option E is not a scalable solution as it would require manual intervention to adjust the group capacity every week. upvoted 1 times

😑 🛔 zooba72 1 year, 2 months ago

Selected Answer: DE

This is why I don't believe A is correct use auto scaling to adjust the ALB D&E upvoted 3 times

😑 🌲 pentium75 5 months, 2 weeks ago

Autoscaling can't scale the ALB upvoted 2 times

😑 🆀 Russs99 1 year, 2 months ago

Selected Answer: AD

AD

D there is no requirement for cost minimization in the scenario therefore, A & D are the answers upvoted 3 times

A solutions architect is designing a two-tiered architecture that includes a public subnet and a database subnet. The web servers in the public subnet must be open to the internet on port 443. The Amazon RDS for MySQL DB instance in the database subnet must be accessible only to the web servers on port 3306.

Which combination of steps should the solutions architect take to meet these requirements? (Choose two.)

A. Create a network ACL for the public subnet. Add a rule to deny outbound traffic to 0.0.0.0/0 on port 3306.

B. Create a security group for the DB instance. Add a rule to allow traffic from the public subnet CIDR block on port 3306.

C. Create a security group for the web servers in the public subnet. Add a rule to allow traffic from 0.0.0.0/0 on port 443.

D. Create a security group for the DB instance. Add a rule to allow traffic from the web servers' security group on port 3306.

E. Create a security group for the DB instance. Add a rule to deny all traffic except traffic from the web servers' security group on port 3306.

Correct Answer: CD

Community vote distribution

CD (100%)

😑 💄 Guru4Cloud (Highly Voted 🐽) 9 months, 2 weeks ago

Selected Answer: CD

Remember guys that SG is not used for Deny action, just Allow upvoted 6 times

😑 💄 waldirlsantos (Most Recent 🕗) 1 month, 4 weeks ago

Selected Answer: CD

The following are the default rules for a security group that you create:

Allows no inbound traffic

Allows all outbound traffic upvoted 1 times

😑 🌲 TariqKipkemei 7 months, 3 weeks ago

Selected Answer: CD

'must be accessible only to the web servers' is the key here. Option B almost threw me off, but with this then all that exists in the public subnet would be able to access the DB security group. Therefore C,D well applies the principle of least privilege.

upvoted 3 times

😑 🌲 datmd77 1 year, 1 month ago

Selected Answer: CD

Remember guys that SG is not used for Deny action, just Allow upvoted 4 times

E & Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: CD

To meet the requirements of allowing access to the web servers in the public subnet on port 443 and the Amazon RDS for MySQL DB instance in

the database subnet on port 3306, the best solution would be to create a security group for the web servers and another security group for the DE instance, and then define the appropriate inbound and outbound rules for each security group.

Create a security group for the web servers in the public subnet. Add a rule to allow traffic from 0.0.0.0/0 on port 443.
 Create a security group for the DB instance. Add a rule to allow traffic from the web servers' security group on port 3306.

This will allow the web servers in the public subnet to receive traffic from the internet on port 443, and the Amazon RDS for MySQL DB instance in the database subnet to receive traffic only from the web servers on port 3306. upvoted 2 times

😑 💄 kampatra 1 year, 2 months ago

Selected Answer: CD

CD - Correct ans. upvoted 2 times

E Leten 1 year, 3 months ago I choose CE upvoted 1 times

😑 🌲 lili_9 1 year, 3 months ago

CE support @sitha upvoted 1 times

😑 🌲 sitha 1 year, 3 months ago

Answer: CE . The solution is to deny accessing DB from Internet and allow only access from webserver. upvoted 1 times

😑 🌲 KAUS2 1 year, 3 months ago

Selected Answer: CD

C & D are the right choices. correct upvoted 1 times

😑 🛔 KS2020 1 year, 3 months ago

why not CE? upvoted 2 times

😑 💄 [Removed] 1 year, 3 months ago

Characteristics of security group rules

You can specify allow rules, but not deny rules. https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html upvoted 2 times

😑 🌲 kampatra 1 year, 2 months ago

By default Security Group deny all trafic and we need to configure to enable. upvoted 4 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: CD cdcdcdcdcdc upvoted 2 times

A company is implementing a shared storage solution for a gaming application that is hosted in the AWS Cloud. The company needs the ability to use Lustre clients to access data. The solution must be fully managed.

Which solution meets these requirements?

A. Create an AWS DataSync task that shares the data as a mountable file system. Mount the file system to the application server.

B. Create an AWS Storage Gateway file gateway. Create a file share that uses the required client protocol. Connect the application server to the file share.

C. Create an Amazon Elastic File System (Amazon EFS) file system, and configure it to support Lustre. Attach the file system to the origin server. Connect the application server to the file system.

D. Create an Amazon FSx for Lustre file system. Attach the file system to the origin server. Connect the application server to the file system.

Correct Answer: C

Community vote distribution

D (100%)

😑 👗 Buruguduystunstugudunstuy (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: D

To meet the requirements of a shared storage solution for a gaming application that can be accessed using Lustre clients and is fully managed, the best solution would be to use Amazon FSx for Lustre.

Amazon FSx for Lustre is a fully managed file system that is optimized for compute-intensive workloads, such as high-performance computing, machine learning, and gaming. It provides a POSIX-compliant file system that can be accessed using Lustre clients and offers high performance, scalability, and data durability.

This solution provides a highly available, scalable, and fully managed shared storage solution that can be accessed using Lustre clients. Amazon FS for Lustre is optimized for compute-intensive workloads and provides high performance and durability. upvoted 5 times

😑 🆀 Buruguduystunstugudunstuy 1 year, 2 months ago

Answer A, creating an AWS DataSync task that shares the data as a mountable file system and mounting the file system to the application server, may not provide the required performance and scalability for a gaming application.

Answer B, creating an AWS Storage Gateway file gateway and connecting the application server to the file share, may not provide the required performance and scalability for a gaming application.

Answer C, creating an Amazon Elastic File System (Amazon EFS) file system and configuring it to support Lustre, may not provide the required performance and scalability for a gaming application and may require additional configuration and management overhead. upvoted 2 times

😑 👗 Guru4Cloud (Most Recent 🕐) 9 months, 2 weeks ago

Selected Answer: D

Lustre clients = Amazon FSx for Lustre file system upvoted 2 times

😑 💄 TarigKipkemei 1 year ago

Selected Answer: D

Lustre clients = Amazon FSx for Lustre file system upvoted 3 times

😑 📥 kampatra 1 year, 2 months ago

Selected Answer: D

D - correct ans

upvoted 2 times

😑 🌲 kprakashbehera 1 year, 3 months ago

Selected Answer: D

FSx for Lustre DDDDDD

upvoted 1 times

😑 💄 KAUS2 1 year, 3 months ago

Selected Answer: D

Amazon FSx for Lustre is the right answer

- Lustre is a type of parallel distributed file system, for large-scale computing, Machine Learning, High Performance Computing (HPC)
- Video Processing, Financial Modeling, Electronic Design Automatio upvoted 1 times

😑 💄 cegama543 1 year, 3 months ago

Selected Answer: D

Option D is the best solution because Amazon FSx for Lustre is a fully managed, high-performance file system that is designed to support compute-intensive workloads, such as those required by gaming applications. FSx for Lustre provides sub-millisecond access to petabyte-scale file systems, and supports Lustre clients natively. This means that the gaming application can access the shared data directly from the FSx for Lustre fil system without the need for additional configuration or setup.

Additionally, FSx for Lustre is a fully managed service, meaning that AWS takes care of all maintenance, updates, and patches for the file system, which reduces the operational overhead required by the company. upvoted 1 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: D ddddddddddd upvoted 1 times

A company runs an application that receives data from thousands of geographically dispersed remote devices that use UDP. The application processes the data immediately and sends a message back to the device if necessary. No data is stored.

The company needs a solution that minimizes latency for the data transmission from the devices. The solution also must provide rapid failover to another AWS Region.

Which solution will meet these requirements?

A. Configure an Amazon Route 53 failover routing policy. Create a Network Load Balancer (NLB) in each of the two Regions. Configure the NLB to invoke an AWS Lambda function to process the data.

B. Use AWS Global Accelerator. Create a Network Load Balancer (NLB) in each of the two Regions as an endpoint. Create an Amazon Elastic Container Service (Amazon ECS) cluster with the Fargate launch type. Create an ECS service on the cluster. Set the ECS service as the target for the NLProcess the data in Amazon ECS.

C. Use AWS Global Accelerator. Create an Application Load Balancer (ALB) in each of the two Regions as an endpoint. Create an Amazon Elastic Container Service (Amazon ECS) cluster with the Fargate launch type. Create an ECS service on the cluster. Set the ECS service as the target for the ALB. Process the data in Amazon ECS.

D. Configure an Amazon Route 53 failover routing policy. Create an Application Load Balancer (ALB) in each of the two Regions. Create an Amazon Elastic Container Service (Amazon ECS) cluster with the Fargate launch type. Create an ECS service on the cluster. Set the ECS service as the target for the ALB. Process the data in Amazon ECS.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 UnluckyDucky (Highly Voted 🖬) 1 year, 3 months ago

Selected Answer: B

Key words: geographically dispersed, UDP.

Geographically dispersed (related to UDP) - Global Accelerator - multiple entrances worldwide to the AWS network to provide better transfer rates UDP - NLB (Network Load Balancer).

upvoted 11 times

😑 👗 wizcloudifa (Most Recent 🕐) 1 month, 3 weeks ago

Selected Answer: B

if its UDP it has to be Global Accelarator + NLB package, plus it has the provision for rapid failover as well, piece of cake. upvoted 2 times

😑 💄 sandordini 1 month, 3 weeks ago

Selected Answer: B UDP: NLB + AWS Global Accelerator upvoted 2 times

😑 💄 zinabu 2 months, 1 week ago

UDP/TCP=NLB

rapid failover= AWS global accelerator upvoted 2 times

ferdzcruz 5 months, 1 week ago devices that use UDP = NLB upvoted 1 times

ferdzcruz 5 months, 1 week ago minimizes latency = AWS Global Accelerator upvoted 1 times

Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

This option meets the requirements:

Global Accelerator provides UDP support and minimizes latency using the AWS global network. Using NLBs allows the UDP traffic to be load balanced across Availability Zones.

ECS Fargate provides rapid scaling and failover across Regions. NLB endpoints allow rapid failover if one Region goes down. upvoted 1 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: B

UDP = AWS Global Accelerator and Network Load Balancer upvoted 1 times

😑 💄 kraken21 1 year, 2 months ago

Selected Answer: B

Global accelerator for multi region automatic failover. NLB for UDP. upvoted 2 times

😑 👗 MaxMa 1 year, 2 months ago

why not A? upvoted 1 times

😑 💄 kraken21 1 year, 2 months ago

NLBs do not support lambda target type. Tricky!!! https://docs.aws.amazon.com/elasticloadbalancing/latest/network/load-balancer-target-groups.html

upvoted 8 times

😑 🆀 Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: B

To meet the requirements of minimizing latency for data transmission from the devices and providing rapid failover to another AWS Region, the best solution would be to use AWS Global Accelerator in combination with a Network Load Balancer (NLB) and Amazon Elastic Container Service (Amazon ECS).

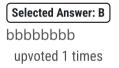
AWS Global Accelerator is a service that improves the availability and performance of applications by using static IP addresses (Anycast) to route traffic to optimal AWS endpoints. With Global Accelerator, you can direct traffic to multiple Regions and endpoints, and provide automatic failover to another AWS Region.

upvoted 3 times

😑 🌲 Ruhi02 1 year, 3 months ago

Answer should be B.. there is typo mistake in B. Correct Answer is : Use AWS Global Accelerator. Create a Network Load Balancer (NLB) in each of the two Regions as an endpoint. Create an Amazon Elastic Container Service (Amazon ECS) cluster with the Fargate launch type. Create an ECS service on the cluster. Set the ECS service as the target for the NLB. Process the data in Amazon ECS. upvoted 4 times

😑 🌲 [Removed] 1 year, 3 months ago



A solutions architect must migrate a Windows Internet Information Services (IIS) web application to AWS. The application currently relies on a file share hosted in the user's on-premises network-attached storage (NAS). The solutions architect has proposed migrating the IIS web servers to Amazon EC2 instances in multiple Availability Zones that are connected to the storage solution, and configuring an Elastic Load Balancer attached to the instances.

Which replacement to the on-premises file share is MOST resilient and durable?

A. Migrate the file share to Amazon RDS.

B. Migrate the file share to AWS Storage Gateway.

C. Migrate the file share to Amazon FSx for Windows File Server.

C (96%)

D. Migrate the file share to Amazon Elastic File System (Amazon EFS).

Correct Answer: A

Community vote distribution

4%

😑 📥 channn (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: C

A) RDS is a database service

B) Storage Gateway is a hybrid cloud storage service that connects on-premises applications to AWS storage services.

D) provides shared file storage for Linux-based workloads, but it does not natively support Windows-based workloads.

upvoted 6 times

😑 🆀 Buruguduystunstugudunstuy (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: C

The most resilient and durable replacement for the on-premises file share in this scenario would be Amazon FSx for Windows File Server.

Amazon FSx is a fully managed Windows file system service that is built on Windows Server and provides native support for the SMB protocol. It is designed to be highly available and durable, with built-in backup and restore capabilities. It is also fully integrated with AWS security services, providing encryption at rest and in transit, and it can be configured to meet compliance standards.

upvoted 6 times

😑 🆀 Buruguduystunstugudunstuy 1 year, 2 months ago

Migrating the file share to Amazon RDS or AWS Storage Gateway is not appropriate as these services are designed for database workloads and block storage respectively, and do not provide native support for the SMB protocol.

Migrating the file share to Amazon EFS (Linux ONLY) could be an option, but Amazon FSx for Windows File Server would be more appropriate i this case because it is specifically designed for Windows file shares and provides better performance for Windows applications. upvoted 5 times

😑 👗 com7 (Most Recent 🕐) 6 months, 2 weeks ago

Selected Answer: C Windows Server to FSx For Windows upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

Windows client = Amazon FSx for Windows File Serve upvoted 1 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: C

Windows client = Amazon FSx for Windows File Server upvoted 2 times

😑 👗 Grace83 1 year, 2 months ago

Obviously C is the correct answer - FSx for Windows - Windows upvoted 4 times

😑 🌲 UnluckyDucky 1 year, 3 months ago

Selected Answer: C

FSx for Windows - Windows. EFS - Linux. upvoted 4 times

😑 👗 mwwt2022 5 months, 1 week ago

good summary upvoted 1 times

😑 💄 elearningtakai 1 year, 3 months ago

Selected Answer: D

Amazon EFS is a scalable and fully-managed file storage service that is designed to provide high availability and durability. It can be accessed by multiple EC2 instances across multiple Availability Zones simultaneously. Additionally, it offers automatic and instantaneous data replication across different availability zones within a region, which makes it resilient to failures.

upvoted 1 times

😑 🌲 asoli 1 year, 2 months ago

EFS is a wrong choice because it can only work with Linux instances. That application has a Windows web server , so its OS is Windows and EFS cannot connect to it

upvoted 4 times

😑 👗 [Removed] 1 year, 3 months ago

(Selected Answer: C) Amazon FSx upvoted 1 times

😑 💄 sitha 1 year, 3 months ago

Amazon FSx makes it easy and cost effective to launch, run, and scale feature-rich, high-performance file systems in the cloud. Answer : C

upvoted 1 times

😑 🌲 KAUS2 1 year, 3 months ago

Selected Answer: C

FSx for Windows is a fully managed Windows file system share drive . Hence C is the correct answer. upvoted 2 times

😑 🌲 Ruhi02 1 year, 3 months ago

FSx for Windows is ideal in this case. So answer is C. upvoted 1 times

😑 💄 [Removed] 1 year, 3 months ago

Selected Answer: C
сссссссс
upvoted 1 times

A company is deploying a new application on Amazon EC2 instances. The application writes data to Amazon Elastic Block Store (Amazon EBS) volumes. The company needs to ensure that all data that is written to the EBS volumes is encrypted at rest.

Which solution will meet this requirement?

A. Create an IAM role that specifies EBS encryption. Attach the role to the EC2 instances.

B. Create the EBS volumes as encrypted volumes. Attach the EBS volumes to the EC2 instances.

C. Create an EC2 instance tag that has a key of Encrypt and a value of True. Tag all instances that require encryption at the EBS level.

D. Create an AWS Key Management Service (AWS KMS) key policy that enforces EBS encryption in the account. Ensure that the key policy is active.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 🛔 Buruguduystunstugudunstuy (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: B

The solution that will meet the requirement of ensuring that all data that is written to the EBS volumes is encrypted at rest is B. Create the EBS volumes as encrypted volumes and attach the encrypted EBS volumes to the EC2 instances.

When you create an EBS volume, you can specify whether to encrypt the volume. If you choose to encrypt the volume, all data written to the volume is automatically encrypted at rest using AWS-managed keys. You can also use customer-managed keys (CMKs) stored in AWS KMS to encrypt and protect your EBS volumes. You can create encrypted EBS volumes and attach them to EC2 instances to ensure that all data written to the volumes is encrypted at rest.

Answer A is incorrect because attaching an IAM role to the EC2 instances does not automatically encrypt the EBS volumes.

Answer C is incorrect because adding an EC2 instance tag does not ensure that the EBS volumes are encrypted. upvoted 10 times

😑 👗 Kds53829 (Most Recent 🕑 7 months, 2 weeks ago

B is the answer upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

B. Create the EBS volumes as encrypted volumes. Attach the EBS volumes to the EC2 instances. upvoted 1 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: B

Windows client = Amazon FSx for Windows File Server upvoted 2 times

😑 🌲 TariqKipkemei 7 months, 3 weeks ago

ignore this, mind stuck on last question hhhhhh. Just create the EBS volumes as encrypted volumes then attach the EBS volumes to the EC2 instances.

upvoted 2 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: B

The other options either do not meet the requirement of encrypting data at rest (A and C) or do so in a more complex or less efficient manner (D). upvoted 1 times

😑 🌲 Bofi 1 year, 2 months ago

Why not D, EBS encryption require the use of KMS key upvoted 1 times

😑 💄 Buruguduystunstugudunstuy 1 year, 2 months ago

Answer D is incorrect because creating a KMS key policy that enforces EBS encryption does not automatically encrypt EBS volumes. You need to create encrypted EBS volumes and attach them to EC2 instances to ensure that all data written to the volumes are encrypted at rest. upvoted 8 times

😑 🌲 WherecanIstart 1 year, 2 months ago

Selected Answer: B

Create encrypted EBS volumes and attach encrypted EBS volumes to EC2 instances.. upvoted 2 times

😑 🌲 sitha 1 year, 3 months ago

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances. Select KMS Keys either default or custom

upvoted 1 times

😑 🌲 Ruhi02 1 year, 3 months ago

Answer B. You can enable encryption for EBS volumes while creating them. upvoted 1 times

😑 💄 [Removed] 1 year, 3 months ago

Selected Answer: B bbbbbbbb upvoted 1 times

A company has a web application with sporadic usage patterns. There is heavy usage at the beginning of each month, moderate usage at the start of each week, and unpredictable usage during the week. The application consists of a web server and a MySQL database server running inside the data center. The company would like to move the application to the AWS Cloud, and needs to select a cost-effective database platform that will not require database modifications.

Which solution will meet these requirements?

- A. Amazon DynamoDB
- B. Amazon RDS for MySQL
- C. MySQL-compatible Amazon Aurora Serverless
- D. MySQL deployed on Amazon EC2 in an Auto Scaling group

C (89%)

Correct	Answer:	С
---------	---------	---

Community vote distribution

11%

😑 📥 channn (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: C

C: Aurora Serverless is a MySQL-compatible relational database engine that automatically scales compute and memory resources based on application usage. no upfront costs or commitments required.

A: DynamoDB is a NoSQL

- B: Fixed cost on RDS class
- D: More operation requires

upvoted 9 times

😑 👗 TariqKipkemei Most Recent 🕐 7 months, 3 weeks ago

Selected Answer: C

The is a huge demand for auto-scaling which Amazon RDS cannot do. This contributes to the cost savings as Aurora serverless would scale done ir low peak times, this contributes to low costs. upvoted 3 times

😑 💄 JKevin778 8 months, 2 weeks ago

Selected Answer: B

RDS is cheaper than Aurora. upvoted 1 times

😑 💄 pentium75 5 months, 2 weeks ago

RDS is cheaper than Aurora if you have a fixed instance size, but NOT if you have "unpredictable" usage patterns, then Aurora Serverless (!) is cheaper.

upvoted 4 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

Answer C, MySQL-compatible Amazon Aurora Serverless, would be the best solution to meet the company's requirements. upvoted 1 times

E & MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: C

Since we have sporadic & unpredictable usage for DB, Aurora Serverless would be fit more cost-efficient for this case scenario than RDS MySQL. https://www.techtarget.com/searchcloudcomputing/answer/When-should-I-use-Amazon-RDS-vs-Aurora-Serverless upvoted 1 times

😑 🌲 antropaws 1 year ago

Selected Answer: C

C for sure.

upvoted 2 times

😑 🆀 Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: C

Answer C, MySQL-compatible Amazon Aurora Serverless, would be the best solution to meet the company's requirements.

Aurora Serverless can be a cost-effective option for databases with sporadic or unpredictable usage patterns since it automatically scales up or

down based on the current workload. Additionally, Aurora Serverless is compatible with MySQL, so it does not require any modifications to the application's database code.

upvoted 4 times

😑 🌲 klayytech 1 year, 2 months ago

Selected Answer: B

Amazon RDS for MySQL is a cost-effective database platform that will not require database modifications. It makes it easier to set up, operate, and scale MySQL deployments in the cloud. With Amazon RDS, you can deploy scalable MySQL servers in minutes with cost-efficient and resizable hardware capacity².

Amazon DynamoDB is a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability. DynamoDB is a good choice for applications that require low-latency data access¹.

MySQL-compatible Amazon Aurora Serverless is an on-demand, auto-scaling configuration for Amazon Aurora (MySQL-compatible edition), where the database will automatically start up, shut down, and scale capacity up or down based on your application's needs³.

So, Amazon RDS for MySQL is the best option for your requirements. upvoted 2 times

😑 👗 klayytech 1 year, 2 months ago

sorry i will change to C , because

Amazon RDS for MySQL is a fully-managed relational database service that makes it easy to set up, operate, and scale MySQL deployments in the cloud. Amazon Aurora Serverless is an on-demand, auto-scaling configuration for Amazon Aurora (MySQL-compatible edition), where the database will automatically start up, shut down, and scale capacity up or down based on your application's needs. It is a simple, cost-effective option for infrequent, intermittent, or unpredictable workloads. upvoted 2 times

😑 💄 boxu03 1 year, 2 months ago

Selected Answer: C

Amazon Aurora Serverless : a simple, cost-effective option for infrequent, intermittent, or unpredictable workloads upvoted 3 times

🖃 🛔 [Removed] 1 year, 3 months ago

Selected Answer: C

An image-hosting company stores its objects in Amazon S3 buckets. The company wants to avoid accidental exposure of the objects in the S3 buckets to the public. All S3 objects in the entire AWS account need to remain private.

Which solution will meet these requirements?

A. Use Amazon GuardDuty to monitor S3 bucket policies. Create an automatic remediation action rule that uses an AWS Lambda function to remediate any change that makes the objects public.

B. Use AWS Trusted Advisor to find publicly accessible S3 buckets. Configure email notifications in Trusted Advisor when a change is detected. Manually change the S3 bucket policy if it allows public access.

C. Use AWS Resource Access Manager to find publicly accessible S3 buckets. Use Amazon Simple Notification Service (Amazon SNS) to invoke an AWS Lambda function when a change is detected. Deploy a Lambda function that programmatically remediates the change.

D. Use the S3 Block Public Access feature on the account level. Use AWS Organizations to create a service control policy (SCP) that prevents IAM users from changing the setting. Apply the SCP to the account.

Correct Answer: D		
Community vote distribution	D (94%)	6%
L		

😑 🆀 Ruhi02 (Highly Voted 🖬) 1 year, 3 months ago

Answer is D ladies and gentlemen. While guard duty helps to monitor s3 for potential threats its a reactive action. We should always be proactive and not reactive in our solutions so D, block public access to avoid any possibility of the info becoming publicly accessible upvoted 14 times

😑 👗 Buruguduystunstugudunstuy (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: D

Answer D is the correct solution that meets the requirements. The S3 Block Public Access feature allows you to restrict public access to S3 buckets and objects within the account. You can enable this feature at the account level to prevent any S3 bucket from being made public, regardless of th bucket policy settings. AWS Organizations can be used to apply a Service Control Policy (SCP) to the account to prevent IAM users from changing this setting, ensuring that all S3 objects remain private. This is a straightforward and effective solution that requires minimal operational overhead. upvoted 6 times

😑 👗 noircesar25 (Most Recent 🕐) 3 months, 2 weeks ago

its 1 aws account, how could D be the answer? upvoted 1 times

😑 🌲 TariqKipkemei 7 months, 2 weeks ago

Selected Answer: D

Use the S3 Block Public Access feature on the account level. Use AWS Organizations to create a service control policy (SCP) that prevents IAM user from changing the setting. Apply the SCP to the account

upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: D

Use the S3 Block Public Access feature on the account level. Use AWS Organizations to create a service control policy (SCP) that prevents IAM user from changing the setting. Apply the SCP to the account

upvoted 1 times

□ ▲ MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: A

A is correct!

upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

No, first it would not remove any existing public access (only detect changes), second it would just detect and then remediate, but in the meantime someone could access the objects. It's clearly D.

upvoted 2 times

😑 💄 Yadav_Sanjay 1 year ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonS3/latest/userguide/access-control-block-public-access.html upvoted 2 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: D

This is the most effective solution to meet the requirements. upvoted 2 times

😑 💄 Bofi 1 year, 2 months ago

Selected Answer: D

Option D provided real solution by using bucket policy to restrict public access. Other options were focus on detection which wasn't what was bee asked

upvoted 2 times

😑 🛔 [Removed] 1 year, 3 months ago

Selected Answer: D

dddddddd

upvoted 1 times

What should a solutions architect do to meet these requirements?

- A. Create a separate application tier using EC2 instances dedicated to email processing.
- B. Configure the web instance to send email through Amazon Simple Email Service (Amazon SES).
- C. Configure the web instance to send email through Amazon Simple Notification Service (Amazon SNS).
- D. Create a separate application tier using EC2 instances dedicated to email processing. Place the instances in an Auto Scaling group.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 💄 elearningtakai (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: B

Amazon SES is a cost-effective and scalable email service that enables businesses to send and receive email using their own email addresses and domains. Configuring the web instance to send email through Amazon SES is a simple and effective solution that can reduce the time spent resolving complex email delivery issues and minimize operational overhead. upvoted 8 times

😑 🛔 waldirlsantos Most Recent 🕐 1 month, 4 weeks ago

Selected Answer: B

B meet these requirements upvoted 1 times

😑 🌲 TariqKipkemei 7 months, 2 weeks ago

Selected Answer: B

Amazon Simple Email Service (Amazon SES) lets you reach customers confidently without an on-premises Simple Mail Transfer Protocol (SMTP) email server using the Amazon SES API or SMTP interface.

upvoted 2 times

😑 🌢 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

B. Configure the web instance to send email through Amazon Simple Email Service (Amazon SES) upvoted 1 times

😑 🌲 Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: B

The best option for addressing the company's needs of minimizing operational overhead and reducing time spent resolving email delivery issues is to use Amazon Simple Email Service (Amazon SES).

Answer A of creating a separate application tier for email processing may add additional complexity to the architecture and require more operational overhead.

Answer C of using Amazon Simple Notification Service (Amazon SNS) is not an appropriate solution for sending marketing and order confirmation emails since Amazon SNS is a messaging service that is designed to send messages to subscribed endpoints or clients.

Answer D of creating a separate application tier using EC2 instances dedicated to email processing placed in an Auto Scaling group is a more complex solution than necessary and may result in additional operational overhead.

upvoted 4 times

😑 🌲 nileshlg 1 year, 2 months ago

Answer is B upvoted 2 times

😑 🌲 Ruhi02 1 year, 3 months ago

Answer B.. SES is meant for sending high volume e-mail efficiently and securely. SNS is meant as a channel publisher/subscriber service upvoted 4 times

😑 👗 [Removed] 1 year, 3 months ago

Selected Answer: B bbbbbbbb upvoted 2 times

A company has a business system that generates hundreds of reports each day. The business system saves the reports to a network share in CSV format. The company needs to store this data in the AWS Cloud in near-real time for analysis.

Which solution will meet these requirements with the LEAST administrative overhead?

A. Use AWS DataSync to transfer the files to Amazon S3. Create a scheduled task that runs at the end of each day.

B. Create an Amazon S3 File Gateway. Update the business system to use a new network share from the S3 File Gateway.

C. Use AWS DataSync to transfer the files to Amazon S3. Create an application that uses the DataSync API in the automation workflow.

D. Deploy an AWS Transfer for SFTP endpoint. Create a script that checks for new files on the network share and uploads the new files by using SFTP.

Correct Answer:	C		
Community vote		0 (4 50)	
	B (85%)	C (15%)	

😑 👗 TariqKipkemei (Highly Voted 🖬) 7 months, 2 weeks ago

Selected Answer: B

Both Amazon S3 File Gateway and AWS DataSync are suitable for this scenario. But there is a requirement for 'LEAST administrative overhead'. Option C involves the creation of an entirely new application to consume the DataSync API, this rules out this option. upvoted 11 times

😑 🌲 channn (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: B

Key words:1. near-real-time (A is out)2. LEAST administrative (C n D is out)upvoted 7 times

😑 🛔 Guru4Cloud (Most Recent 🕐) 9 months, 2 weeks ago

Selected Answer: C

This option has the least administrative overhead because:

Using DataSync avoids having to rewrite the business system to use a new file gateway or SFTP endpoint. Calling the DataSync API from an application allows automating the data transfer instead of running scheduled tasks or scripts. DataSync directly transfers files from the network share to S3 without needing an intermediate server upvoted 2 times

E **Pentium75** 5 months, 2 weeks ago

"Create an application" hell no, the application must run somewhere etc., this is massive "administrative overhead". upvoted 3 times

😑 🏝 antropaws 1 year ago

Selected Answer: B

B. Data Sync is better for one time migrations. upvoted 3 times

😑 🌲 kruasan 1 year, 1 month ago

Selected Answer: B

The correct solution here is:

B. Create an Amazon S3 File Gateway. Update the business system to use a new network share from the S3 File Gateway.

This option requires the least administrative overhead because:

- It presents a simple network file share interface that the business system can write to, just like a standard network share. This requires minimal changes to the business system.

- The S3 File Gateway automatically uploads all files written to the share to an S3 bucket in the background. This handles the transfer and upload t S3 without requiring any scheduled tasks, scripts or automation.

- All ongoing management like monitoring, scaling, patching etc. is handled by AWS for the S3 File Gateway. upvoted 4 times

😑 💄 kruasan 1 year, 1 month ago

The other options would require more ongoing administrative effort:

A) AWS DataSync would require creating and managing scheduled tasks and monitoring them.

C) Using the DataSync API would require developing an application and then managing and monitoring it.

D) The SFTP option would require creating scripts, managing SFTP access and keys, and monitoring the file transfer process.

So overall, the S3 File Gateway requires the least amount of ongoing management and administration as it presents a simple file share interface but handles the upload to S3 in a fully managed fashion. The business system can continue writing to a network share as is, while the files are transparently uploaded to S3.

The S3 File Gateway is the most hands-off, low-maintenance solution in this scenario. upvoted 3 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: B

A - creating a scheduled task is not near-real time.

B - The S3 File Gateway caches frequently accessed data locally and automatically uploads it to Amazon S3, providing near-real-time access to the data.

C - creating an application that uses the DataSync API in the automation workflow may provide near-real-time data access, but it requires additional development effort.

D - it requires additional development effort.

upvoted 4 times

😑 💄 zooba72 1 year, 2 months ago

Selected Answer: B

It's B. DataSync has a scheduler and it runs on hour intervals, it cannot be used real-time upvoted 1 times

😑 🆀 Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: C

The correct answer is C. Use AWS DataSync to transfer the files to Amazon S3. Create an application that uses the DataSync API in the automation workflow.

To store the CSV reports generated by the business system in the AWS Cloud in near-real time for analysis, the best solution with the least administrative overhead would be to use AWS DataSync to transfer the files to Amazon S3 and create an application that uses the DataSync API in the automation workflow.

AWS DataSync is a fully managed service that makes it easy to automate and accelerate data transfer between on-premises storage systems and AWS Cloud storage, such as Amazon S3. With DataSync, you can quickly and securely transfer large amounts of data to the AWS Cloud, and you can automate the transfer process using the DataSync API.

upvoted 4 times

😑 💄 Buruguduystunstugudunstuy 1 year, 2 months ago

Answer A, using AWS DataSync to transfer the files to Amazon S3 and creating a scheduled task that runs at the end of each day, is not the bes solution because it does not meet the requirement of storing the CSV reports in near-real time for analysis.

Answer B, creating an Amazon S3 File Gateway and updating the business system to use a new network share from the S3 File Gateway, is not the best solution because it requires additional configuration and management overhead.

Answer D, deploying an AWS Transfer for the SFTP endpoint and creating a script to check for new files on the network share and upload the new files using SFTP, is not the best solution because it requires additional scripting and management overhead upvoted 2 times

🖃 💄 COTIT 1 year, 2 months ago

Selected Answer: B

I think B is the better answer, "LEAST administrative overhead"

https://aws.amazon.com/storagegateway/file/?nc1=h_ls upvoted 4 times

😑 📥 andyto 1 year, 2 months ago

B - S3 File Gateway.

C - this is wrong answer because data migration is scheduled (this is not continuous task), so condition "near-real time" is not fulfilled upvoted 2 times

😑 💄 Thief 1 year, 2 months ago

C is the best ans

upvoted 1 times

lizzard812 1 year, 2 months ago Why not A? There is no scheduled job? upvoted 1 times A company is storing petabytes of data in Amazon S3 Standard. The data is stored in multiple S3 buckets and is accessed with varying frequency. The company does not know access patterns for all the data. The company needs to implement a solution for each S3 bucket to optimize the cost of S3 usage.

Which solution will meet these requirements with the MOST operational efficiency?

A. Create an S3 Lifecycle configuration with a rule to transition the objects in the S3 bucket to S3 Intelligent-Tiering.

B. Use the S3 storage class analysis tool to determine the correct tier for each object in the S3 bucket. Move each object to the identified storage tier.

C. Create an S3 Lifecycle configuration with a rule to transition the objects in the S3 bucket to S3 Glacier Instant Retrieval.

D. Create an S3 Lifecycle configuration with a rule to transition the objects in the S3 bucket to S3 One Zone-Infrequent Access (S3 One Zone-IA).

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 TariqKipkemei (Highly Voted 🖬) 1 year ago

Selected Answer: A

Unknown access patterns for the data = S3 Intelligent-Tiering upvoted 7 times

😑 👗 Guru4Cloud (Most Recent 🕐) 9 months, 2 weeks ago

Selected Answer: A

Create an S3 Lifecycle configuration with a rule to transition the objects in the S3 bucket to S3 Intelligent-Tiering. upvoted 2 times

😑 🌲 channn 1 year, 2 months ago

Selected Answer: A

Key words: 'The company does not know access patterns for all the data', so A. upvoted 4 times

😑 🛔 Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: A

The correct answer is A.

Creating an S3 Lifecycle configuration with a rule to transition the objects in the S3 bucket to S3 Intelligent-Tiering would be the most efficient solution to optimize the cost of S3 usage. S3 Intelligent-Tiering is a storage class that automatically moves objects between two access tiers (frequent and infrequent) based on changing access patterns. It is a cost-effective solution that does not require any manual intervention to move data to different storage classes, unlike the other options.

upvoted 4 times

😑 💄 Buruguduystunstugudunstuy 1 year, 2 months ago

Answer B, Using the S3 storage class analysis tool to determine the correct tier for each object and manually moving objects to the identified storage tier would be time-consuming and require more operational overhead.

Answer C, Transitioning objects to S3 Glacier Instant Retrieval would be appropriate for data that is accessed less frequently and does not require immediate access.

Answer D, S3 One Zone-IA would be appropriate for data that can be recreated if lost and does not require the durability of S3 Standard or S3 Standard-IA.

upvoted 2 times

😑 💄 COTIT 1 year, 2 months ago

Selected Answer: A

For me is A. Create an S3 Lifecycle configuration with a rule to transition the objects in the S3 bucket to S3 Intelligent-Tiering.

Why?

"S3 Intelligent-Tiering is the ideal storage class for data with unknown, changing, or unpredictable access patterns" https://aws.amazon.com/s3/storage-classes/intelligent-tiering/ upvoted 2 times

😑 👗 Bofi 1 year, 2 months ago

Selected Answer: A

Once the data traffic is unpredictable, Intelligent-Tiering is the best option upvoted 2 times

😑 🚢 NIL8891 1 year, 2 months ago

Selected Answer: A

Create an S3 Lifecycle configuration with a rule to transition the objects in the S3 bucket to S3 Intelligent-Tiering. upvoted 1 times

😑 🌲 Maximus007 1 year, 2 months ago

Selected Answer: A

A: as exact pattern is not clear upvoted 2 times

A rapidly growing global ecommerce company is hosting its web application on AWS. The web application includes static content and dynamic content. The website stores online transaction processing (OLTP) data in an Amazon RDS database The website's users are experiencing slow page loads.

Which combination of actions should a solutions architect take to resolve this issue? (Choose two.)

A. Configure an Amazon Redshift cluster.

B. Set up an Amazon CloudFront distribution.

C. Host the dynamic web content in Amazon S3.

D. Create a read replica for the RDS DB instance.

E. Configure a Multi-AZ deployment for the RDS DB instance.

Community vote distribution

BD (87%)

11%

E & Buruguduystunstugudunstuy (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: BD

To resolve the issue of slow page loads for a rapidly growing e-commerce website hosted on AWS, a solutions architect can take the following two actions:

1. Set up an Amazon CloudFront distribution

2. Create a read replica for the RDS DB instance

Configuring an Amazon Redshift cluster is not relevant to this issue since Redshift is a data warehousing service and is typically used for the analytical processing of large amounts of data.

Hosting the dynamic web content in Amazon S3 may not necessarily improve performance since S3 is an object storage service, not a web application server. While S3 can be used to host static web content, it may not be suitable for hosting dynamic web content since S3 doesn't support server-side scripting or processing.

Configuring a Multi-AZ deployment for the RDS DB instance will improve high availability but may not necessarily improve performance. upvoted 12 times

E & pentium75 Most Recent 2 5 months, 2 weeks ago

Selected Answer: BD

A - Redshift is for OLAP, not OLTP

- B Caching, reduces page load time and server load
- C S3 can't host dynamic (!) content
- D Read Replica is meant for increasing DB performance
- E Multi-AZ is meant for HA (not asked here)

upvoted 2 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: BD

The two options that will best help resolve the slow page loads are:

B) Set up an Amazon CloudFront distribution

and

E) Configure a Multi-AZ deployment for the RDS DB instance

Explanation:

CloudFront can cache static content globally and improve latency for static content delivery. Multi-AZ RDS improves performance and availability of the database driving dynamic content. upvoted 3 times

😑 🏝 antropaws 1 year ago

Selected Answer: BD

BD is correct.

upvoted 3 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: BD

Resolve latency = Amazon CloudFront distribution and read replica for the RDS DB upvoted 4 times

😑 💄 SamDouk 1 year, 2 months ago

Selected Answer: BD

B and D upvoted 2 times

😑 💄 klayytech 1 year, 2 months ago

Selected Answer: BD

The website's users are experiencing slow page loads.

To resolve this issue, a solutions architect should take the following two actions:

Create a read replica for the RDS DB instance. This will help to offload read traffic from the primary database instance and improve performance. upvoted 2 times

😑 💄 zooba72 1 year, 2 months ago

Selected Answer: BD

Question asked about performance improvements, not HA. Cloudfront & Read Replica upvoted 2 times

😑 💄 thaotnt 1 year, 2 months ago

Selected Answer: BD

slow page loads. >>> D upvoted 2 times

😑 📥 andyto 1 year, 2 months ago

Selected Answer: BD

Read Replica will speed up Reads on RDS DB.

E is wrong. It brings HA but doesn't contribute to speed which is impacted in this case. Multi-AZ is Active-Standby solution. upvoted 1 times

😑 👗 COTIT 1 year, 2 months ago

Selected Answer: BE

I agree with B & E.

B. Set up an Amazon CloudFront distribution. (Amazon CloudFront is a content delivery network (CDN) service)

E. Configure a Multi-AZ deployment for the RDS DB instance. (Good idea for loadbalance the DB workflow)

upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Multi-AZ for HA, Read Replica for Scalability

https://aws.amazon.com/rds/features/read-replicas/?nc1=h_ls upvoted 1 times

😑 🌲 Santosh43 1 year, 2 months ago

B and E (as there is nothing mention about read transactions) upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Why E? There is nothing mentioned about High Availability also. E is wrong because Multi AZ won't help with scaling upvoted 1 times

😑 🆀 Akademik6 1 year, 2 months ago

Selected Answer: BD

Cloudfront and Read Replica. We don't need HA here. upvoted 3 times

😑 🌲 acts268 1 year, 2 months ago

Selected Answer: BD

Cloud Front and Read Replica upvoted 4 times

😑 💄 Bofi 1 year, 2 months ago

Selected Answer: BE

Amazon CloudFront can handle both static and Dynamic contents hence there is not need for option C l.e hosting the static data on Amazon S3. RDS read replica will reduce the amount of reads on the RDS hence leading a better performance. Multi-AZ is for disaster Recovery, which means D is also out.

upvoted 1 times

😑 🌡 Thief 1 year, 2 months ago

Selected Answer: BC

CloudFont with S3 upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

S3 can't host "dynamic content" upvoted 2 times

😑 🚢 NIL8891 1 year, 2 months ago

Selected Answer: BE

B and E upvoted 2 times

A company uses Amazon EC2 instances and AWS Lambda functions to run its application. The company has VPCs with public subnets and private subnets in its AWS account. The EC2 instances run in a private subnet in one of the VPCs. The Lambda functions need direct network access to the EC2 instances for the application to work.

The application will run for at least 1 year. The company expects the number of Lambda functions that the application uses to increase during that time. The company wants to maximize its savings on all application resources and to keep network latency between the services low.

Which solution will meet these requirements?

A. Purchase an EC2 Instance Savings Plan Optimize the Lambda functions' duration and memory usage and the number of invocations. Connect the Lambda functions to the private subnet that contains the EC2 instances.

B. Purchase an EC2 Instance Savings Plan Optimize the Lambda functions' duration and memory usage, the number of invocations, and the amount of data that is transferred. Connect the Lambda functions to a public subnet in the same VPC where the EC2 instances run.

C. Purchase a Compute Savings Plan. Optimize the Lambda functions' duration and memory usage, the number of invocations, and the amount of data that is transferred. Connect the Lambda functions to the private subnet that contains the EC2 instances.

D. Purchase a Compute Savings Plan. Optimize the Lambda functions' duration and memory usage, the number of invocations, and the amount of data that is transferred. Keep the Lambda functions in the Lambda service VPC.

Correct Answer: C

Community vote distribution

C (100%)

😑 🆀 Buruguduystunstugudunstuy (Highly Voted 🖬) 1 year, 2 months ago

Selected Answer: C

Answer C is the best solution that meets the company's requirements.

By purchasing a Compute Savings Plan, the company can save on the costs of running both EC2 instances and Lambda functions. The Lambda functions can be connected to the private subnet that contains the EC2 instances through a VPC endpoint for AWS services or a VPC peering connection. This provides direct network access to the EC2 instances while keeping the traffic within the private network, which helps to minimize network latency.

Optimizing the Lambda functions' duration, memory usage, number of invocations, and amount of data transferred can help to further minimize costs and improve performance. Additionally, using a private subnet helps to ensure that the EC2 instances are not directly accessible from the public internet, which is a security best practice.

upvoted 16 times

😑 💄 Buruguduystunstugudunstuy 1 year, 2 months ago

Answer A is not the best solution because connecting the Lambda functions directly to the private subnet that contains the EC2 instances may not be scalable as the number of Lambda functions increases. Additionally, using an EC2 Instance Savings Plan may not provide savings on the costs of running Lambda functions.

Answer B is not the best solution because connecting the Lambda functions to a public subnet may not be as secure as connecting them to a private subnet. Also, keeping the EC2 instances in a private subnet helps to ensure that they are not directly accessible from the public internet.

Answer D is not the best solution because keeping the Lambda functions in the Lambda service VPC may not provide direct network access to the EC2 instances, which may impact the performance of the application.

upvoted 7 times

😑 👗 TariqKipkemei (Most Recent 🕐 7 months, 2 weeks ago

Selected Answer: C

Implement Compute Savings Plan because it applies to Lambda usage as well, then connect the Lambda functions to the private subnet that contains the EC2 instances

upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: C

A Compute Savings Plan covers both EC2 and Lambda and allows maximizing savings on all resources.

Optimizing Lambda configuration reduces costs.

Connecting the Lambda functions to the private subnet with the EC2 instances provides direct network access between them, keeping latency low. The Lambda functions are isolated in the private subnet rather than public, improving security.

upvoted 3 times

😑 🌲 jaehoon090 10 months, 1 week ago

upvoted 1 times

😑 💄 elearningtakai 1 year, 2 months ago

Selected Answer: C

Connect Lambda to Private Subnet contains EC2 upvoted 1 times

😑 💄 zooba72 1 year, 2 months ago

Selected Answer: C

Compute savings plan covers both EC2 & Lambda upvoted 4 times

😑 🌲 Zox42 1 year, 2 months ago

C. I would go with C, because Compute savings plans cover Lambda as well. upvoted 3 times

😑 💄 andyto 1 year, 2 months ago

A. I would go with A. Saving and low network latency are required.
EC2 instance savings plans offer savings of up to 72%
Compute savings plans offer savings of up to 66%
Placing Lambda on the same private network with EC2 instances provides the lowest latency.
upvoted 1 times

😑 💄 abitwrong 1 year, 2 months ago

EC2 Instance Savings Plans apply to EC2 usage only. Compute Savings Plans apply to usage across Amazon EC2, AWS Lambda, and AWS Fargate. (https://aws.amazon.com/savingsplans/faq/)

Lambda functions need direct network access to the EC2 instances for the application to work and these EC2 instances are in the private subnet So the correct answer is C.

upvoted 2 times

The solutions architect has created an IAM role in the production account. The role has a policy that grants access to an S3 bucket in the production account.

Which solution will meet these requirements while complying with the principle of least privilege?

- A. Attach the Administrator Access policy to the development account users.
- B. Add the development account as a principal in the trust policy of the role in the production account.
- C. Turn off the S3 Block Public Access feature on the S3 bucket in the production account.
- D. Create a user in the production account with unique credentials for each team member.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 kels1 (Highly Voted 🖬) 1 year, 1 month ago

well, if you made it this far, it means you are persistent :) Good luck with your exam! upvoted 63 times

😑 💄 Kimnesh 9 months, 3 weeks ago

thank you! upvoted 4 times

😑 🌲 SkyZeroZx 1 year, 1 month ago

Thanks good luck for all upvoted 7 times

😑 📥 gpt_test (Highly Voted 🐽) 1 year, 2 months ago

Selected Answer: B

By adding the development account as a principal in the trust policy of the IAM role in the production account, you are allowing users from the development account to assume the role in the production account. This allows the team members to access the S3 bucket in the production account without granting them unnecessary privileges.

upvoted 7 times

😑 👗 TariqKipkemei Most Recent 🕐 7 months, 2 weeks ago

Selected Answer: B

Add the development account as a principal in the trust policy of the role in the production account upvoted 2 times

😑 🖀 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

The best solution is B) Add the development account as a principal in the trust policy of the role in the production account.

This allows cross-account access to the S3 bucket in the production account by assuming the IAM role. The development account users can assum the role to gain temporary access to the production bucket. upvoted 4 times

😑 🌲 nilandd44gg 11 months, 1 week ago

Selected Answer: B

https://aws.amazon.com/blogs/security/how-to-use-trust-policies-with-iam-roles/

An AWS account accesses another AWS account – This use case is commonly referred to as a cross-account role pattern. It allows human or machine IAM principals from one AWS account to assume this role and act on resources within a second AWS account. A role is assumed to enable this behavior when the resource in the target account doesn't have a resource-based policy that could be used to grant cross-account access. upvoted 2 times

😑 🌲 elearningtakai 1 year, 2 months ago

Selected Answer: B

About Trust policy – The trust policy defines which principals can assume the role, and under which conditions. A trust policy is a specific type of resource-based policy for IAM roles.

Answer A: overhead permission Admin to development. Answer C: Block public access is a security best practice and seems not relevant to this scenario. Answer D: difficult to manage and scale upvoted 2 times

E & Buruguduystunstugudunstuy 1 year, 2 months ago

Selected Answer: B

Answer A, attaching the Administrator Access policy to development account users, provides too many permissions and violates the principle of least privilege. This would give users more access than they need, which could lead to security issues if their credentials are compromised.

Answer C, turning off the S3 Block Public Access feature, is not a recommended solution as it is a security best practice to enable S3 Block Public Access to prevent accidental public access to S3 buckets.

Answer D, creating a user in the production account with unique credentials for each team member, is also not a recommended solution as it can be difficult to manage and scale for large teams. It is also less secure, as individual user credentials can be more easily compromised. upvoted 2 times

😑 💄 klayytech 1 year, 2 months ago

Selected Answer: B

The solution that will meet these requirements while complying with the principle of least privilege is to add the development account as a principal in the trust policy of the role in the production account. This will allow team members to access Amazon S3 buckets in two different AWS accounts while complying with the principle of least privilege.

Option A is not recommended because it grants too much access to development account users. Option C is not relevant to this scenario. Option I is not recommended because it does not comply with the principle of least privilege. upvoted 1 times

😑 💄 Akademik6 1 year, 2 months ago

Selected Answer: B B is the correct answer

upvoted 2 times

Question #419

A company uses AWS Organizations with all features enabled and runs multiple Amazon EC2 workloads in the ap-southeast-2 Region. The company has a service control policy (SCP) that prevents any resources from being created in any other Region. A security policy requires the company to encrypt all data at rest.

An audit discovers that employees have created Amazon Elastic Block Store (Amazon EBS) volumes for EC2 instances without encrypting the volumes. The company wants any new EC2 instances that any IAM user or root user launches in ap-southeast-2 to use encrypted EBS volumes. The company wants a solution that will have minimal effect on employees who create EBS volumes.

Which combination of steps will meet these requirements? (Choose two.)

A. In the Amazon EC2 console, select the EBS encryption account attribute and define a default encryption key.

B. Create an IAM permission boundary. Attach the permission boundary to the root organizational unit (OU). Define the boundary to deny the ec2:CreateVolume action when the ec2:Encrypted condition equals false.

C. Create an SCP. Attach the SCP to the root organizational unit (OU). Define the SCP to deny the ec2:CreateVolume action when the ec2:Encrypted condition equals false.

D. Update the IAM policies for each account to deny the ec2:CreateVolume action when the ec2:Encrypted condition equals false.

E. In the Organizations management account, specify the Default EBS volume encryption setting.

Correct Answer: AD		
Community vote distribution		
CE (79%)	AE (15%) 6%	

😑 🛔 Guru4Cloud (Highly Voted 🖬) 9 months, 2 weeks ago

Selected Answer: CE

The correct answer is (C) and (E).

Option (C): Creating an SCP and attaching it to the root organizational unit (OU) will deny the ec2:CreateVolume action when the ec2:Encrypted condition equals false. This means that any IAM user or root user in any account in the organization will not be able to create an EBS volume without encrypting it.

Option (E): Specifying the Default EBS volume encryption setting in the Organizations management account will ensure that all new EBS volumes created in any account in the organization are encrypted by default.

upvoted 8 times

😑 📥 Axaus (Highly Voted 🖬) 1 year ago

Selected Answer: CE

CE

Prevent future issues by creating a SCP and set a default encryption. upvoted 8 times

😑 💄 Jazz888 Most Recent 🕗 4 days ago

The problem here is we don't know in which account the workload is on. The account in ap-xx-is that the management account or it's a member account?? That will decide to select either A or E. C is certainly correct upvoted 1 times

😑 🌲 NSA_Poker 1 week, 4 days ago

Selected Answer: CE

(A) is incorrect bc absent of SCP or the Organizations management account, the scope of the EC2 console is too narrow to be applied to 'any IAM user or root user'.

upvoted 1 times

😑 💄 venutadi 1 month, 2 weeks ago

Selected Answer: AC

https://repost.aws/knowledge-center/ebs-automatic-encryption Newly created Amazon EBS volumes aren't encrypted by default. However, you can turn on default encryption for new EBS volumes and snapshot copies that are created within a specified Region. To turn on encryption by default, use the Amazon Elastic Compute Cloud (Amazon EC2) console. upvoted 1 times

😑 💄 **1rob** 5 months, 1 week ago

Selected Answer: AC

A: will enforce automatic encryption in a account. This will have no effect on employees. Do this in every account. B: permission boundary is not appropriate here. C: an SCP will force employees to create encrypted volumes in every account.

D: This would work but is too much maintenance.

E: Setting EBS volume encryption in the Organizations management account will only have impact on volumes in that account, not on other accounts.

upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: AE

The solution should "have minimal effect on employees who create EBS volumes". Thus new volumes should automatically be encrypted. Options B, C and D do NOT automatically encrypt volumes, they simply cause requests to create non-encrypted volumes to fail. upvoted 2 times

😑 💄 dkw2342 3 months, 1 week ago

IMO the correct solution is AC:

In the Amazon EC2 console, select the EBS encryption account attribute and define a default encryption key.

-> This has to be done in every AWS account separately.

Create an SCP. Attach the SCP to the root organizational unit (OU). Define the SCP to deny the ec2:CreateVolume action when the ec2:Encryptec condition equals false.

-> This will just act as a safeguard in case an admin would disable default encryption in the member account, so it should not have any effect on employees who create EBS volumes.

I think an updated question would offer options A and an updated C:

Create an SCP. Attach the SCP to the root organizational unit (OU). Define the SCP to deny the ec2:DisableEbsEncryptionByDefault action. -> This will prevent disabling default encryption once is has been enabled. upvoted 1 times

😑 🌲 Valder21 9 months, 1 week ago

Wondering if just C would be sufficient? upvoted 1 times

😑 🌲 bjexamprep 9 months, 1 week ago

Seems many people selected E as part of the correct answer. But I didn't find so called Organization level EBS default setting in my Organization management account. I tried setting default EBS encryption setting in my Organization management account, and it didn't apply to the member account. If E cannot guarantee default encryption in all other account, E has no advantage over A. Anyone can explain why E is better than A? upvoted 4 times

😑 🏝 novelai_me 11 months, 2 weeks ago

Selected Answer: AE

Option A: By default, EBS encryption is not enabled for EC2 instances. However, you can set an EBS encryption by default in your AWS account in the Amazon EC2 console. This ensures that every new EBS volume that is created is encrypted.

Option E: With AWS Organizations, you can centrally set the default EBS encryption for your organization's accounts. This helps in enforcing a consistent encryption policy across your organization.

Option B, C and D are not correct because while you can use IAM policies or SCPs to restrict the creation of unencrypted EBS volumes, this could potentially impact employees' ability to create necessary resources if not properly configured. They might require additional permissions management, which is not mentioned in the requirements. By setting the EBS encryption by default at the account or organization level (Options *A* and E), you can ensure all new volumes are encrypted without affecting the ability of employees to create resources. upvoted 3 times

😑 🆀 Buruguduystunstugudunstuy 1 year ago

Selected Answer: CE

SCPs are a great way to enforce policies across an entire AWS Organization, preventing users from creating resources that do not comply with the set policies.

In AWS Management Console, one can go to EC2 dashboard -> Settings -> Data encryption -> Check "Always encrypt new EBS volumes" and choose a default KMS key. This ensures that every new EBS volume created will be encrypted by default, regardless of how it is created. upvoted 2 times

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.
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😑 🆀 PRASAD180 1 year ago

1000% CE crt upvoted 1 times

😑 🌲 [Removed] 1 year ago

Encryption by default allows you to ensure that all new EBS volumes created in your account are always encrypted, even if you don't specify encrypted=true request parameter.

https://aws.amazon.com/blogs/compute/must-know-best-practices-for-amazon-ebs-encryption/

upvoted 1 times

😑 💄 hiroohiroo 1 year ago

Selected Answer: CE

CとEが正しいと考える。 upvoted 3 times

😑 🌡 Efren 1 year ago



CE for me as well upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: CE

SCP that denies the ec2:CreateVolume action when the ec2:Encrypted condition equals false. This will prevent users and service accounts in member accounts from creating unencrypted EBS volumes in the ap-southeast-2 Region. upvoted 2 times

😑 🌡 Efren 1 year ago

agreed upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

Wouldn't this have "effect on employees who create EBS volumes", which we are asked to minimize? upvoted 1 times

A company wants to use an Amazon RDS for PostgreSQL DB cluster to simplify time-consuming database administrative tasks for production database workloads. The company wants to ensure that its database is highly available and will provide automatic failover support in most scenarios in less than 40 seconds. The company wants to offload reads off of the primary instance and keep costs as low as possible.

Which solution will meet these requirements?

A. Use an Amazon RDS Multi-AZ DB instance deployment. Create one read replica and point the read workload to the read replica.

B. Use an Amazon RDS Multi-AZ DB duster deployment Create two read replicas and point the read workload to the read replicas.

C. Use an Amazon RDS Multi-AZ DB instance deployment. Point the read workload to the secondary instances in the Multi-AZ pair.

D. Use an Amazon RDS Multi-AZ DB cluster deployment Point the read workload to the reader endpoint.

Correct Answer: A
Community vote distribution
D (82%) Other
😑 🚢 ogerber (Highly Voted 🖬 1 year ago
Selected Answer: D
A - multi-az instance : failover takes between 60-120 sec D - multi-az cluster: failover around 35 sec
upvoted 16 times
😑 👗 kelmryan1 1 month ago
They want to keep cost low as possible, A is the right answer
upvoted 1 times
😑 🛔 Buruguduystunstugudunstuy (Highly Voted 🐽 1 year ago
Selected Answer: D
The correct answer is:
D. Use an Amazon RDS Multi-AZ DB cluster deployment. Point the read workload to the reader endpoint.
Explanation:
The company wants high availability, automatic failover support in less than 40 seconds, read offloading from the primary instance, and cost- effectiveness.
Answer D is the best choice for several reasons:
1. Amazon RDS Multi-AZ deployments provide high availability and automatic failover support.
2. In a Multi-AZ DB cluster, Amazon RDS automatically provisions and maintains a standby in a different Availability Zone. If a failure occurs, Amazon RDS performs an automatic failover to the standby, minimizing downtime.
3. The "Reader endpoint" for an Amazon RDS DB cluster provides load-balancing support for read-only connections to the DB cluster. Directing read traffic to the reader endpoint helps in offloading read operations from the primary instance. upvoted 11 times

😑 🌲 Kiki_Pass 10 months, 2 weeks ago

Sorry I'm a bit confused... I thought only Aurora DB Cluster has reader endpoint. Do you by any chance has the link to the doc for RDS Reader Endpoint? upvoted 2 times

😑 💄 lemur88 9 months, 3 weeks ago

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/multi-az-db-clusters-concepts-connection-management.html#multi-az-db-clusters-concepts-connection-management-endpoints-reader

upvoted 2 times

😑 👗 rondelideli (Most Recent 🕗 2 months ago

Selected Answer: B

https://aws.amazon.com/rds/features/multi-az/ Amazon RDS Multi-AZ with two readable standbys upvoted 1 times

😑 💄 hro 2 months, 2 weeks ago

I think the cluster is over-kill - but the company 'wants to use an Amazon RDS ... DB cluster'. upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: D

A would be cheapest but "failover times are typically 60–120 seconds" which does not meet our requirements. We need Multi-AZ DB cluster (not instance). This has a reader endpoint by default, thus no need for additional read replicas (to "keep costs as low as possible"). https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZSingleStandby.html upvoted 5 times

😑 🛔 master9 5 months, 2 weeks ago

Selected Answer: A

in question, it has mentioned that "keep costs as low as possible"

In a Multi-AZ configuration, the DB instances and EBS storage volumes are deployed across two Availability Zones. It provides high availability and failover support for DB instances.

This setup is primarily for disaster recovery.

It involves a primary DB instance and a standby replica, which is a copy of the primary DB instance.

The standby replica is not accessible directly; instead, it serves as a failover target in case the primary instance fails. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: D

lt is D.

A is not correct. Multi-AZ DB instance deployment, which creates a primary instance and a standby instance to provide failover support. However, the standby instance does not serve traffic.

upvoted 1 times

😑 💄 maudsha 7 months, 2 weeks ago

Selected Answer: D

https://aws.amazon.com/blogs/database/choose-the-right-amazon-rds-deployment-option-single-az-instance-multi-az-instance-or-multi-az-database-cluster/#:~:text=Unlike%20Multi%2DAZ%20instance%20deployment,different%20AZs%20serving%20read%20traffic.

According to this the answer is D

"Unlike Multi-AZ instance deployment, where the secondary instance can't be accessed for read or writes, Multi-AZ DB cluster deployment consist: of primary instance running in one AZ serving read-write traffic and two other standby running in two different AZs serving read traffic."

You don't have to create read replicas with cluster deployment so B is out. upvoted 1 times

😑 👗 kwang312 9 months ago

D

Fail-over on Multi-AZ DB instance is 60-120s On Cluster, the time under 35s upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: D

D. Use an Amazon RDS Multi-AZ DB cluster deployment. Point the read workload to the reader endpoint upvoted 1 times

😑 💄 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: D

Use an Amazon RDS Multi-AZ DB cluster deployment Point the read workload to the reader endpoint. upvoted 1 times

😑 💄 Eminenza22 9 months, 3 weeks ago

Selected Answer: A

The solutions architect should use an Amazon RDS Multi-AZ DB instance deployment. The company can create one read replica and point the reac workload to the read replica. Amazon RDS provides high availability and failover support for DB instances using Multi-AZ deployments.

upvoted 1 times

😑 🌲 Gooniegoogoo 11 months, 2 weeks ago

and d..

Multi-AZ DB clusters typically have lower write latency when compared to Multi-AZ DB instance deployments. They also allow read-only workloads to run on reader DB instances.

upvoted 1 times

😑 🌡 TariqKipkemei 1 year ago

Selected Answer: D

This is as case where both option A and D can work, but option D gives 2 DB instances for read compared to only 1 given by option A. Costwise they are the same as both options use 3 DB instances.

upvoted 1 times

😑 🌡 Henrytml 1 year ago

Selected Answer: A

lowest cost option, and effective with read replica upvoted 3 times

😑 🌡 antropaws 1 year ago

Selected Answer: D

It's D. Read well: "A company wants to use an Amazon RDS for PostgreSQL DB CLUSTER". upvoted 3 times

😑 👗 [Removed] 1 year ago

Selected Answer: D

A Multi-AZ DB cluster deployment is a semisynchronous, high availability deployment mode of Amazon RDS with two readable standby DB instances. A Multi-AZ DB cluster has a writer DB instance and two reader DB instances in three separate Availability Zones in the same AWS Region https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/multi-az-db-clusters-concepts.html

Amazon RDS Multi-AZ with two readable standbys. Automatically fail over in typically under 35 seconds https://aws.amazon.com/rds/features/multi-az/ upvoted 2 times

Question #421

A company runs a highly available SFTP service. The SFTP service uses two Amazon EC2 Linux instances that run with elastic IP addresses to accept traffic from trusted IP sources on the internet. The SFTP service is backed by shared storage that is attached to the instances. User accounts are created and managed as Linux users in the SFTP servers.

The company wants a serverless option that provides high IOPS performance and highly configurable security. The company also wants to maintain control over user permissions.

Which solution will meet these requirements?

A. Create an encrypted Amazon Elastic Block Store (Amazon EBS) volume. Create an AWS Transfer Family SFTP service with a public endpoint that allows only trusted IP addresses. Attach the EBS volume to the SFTP service endpoint. Grant users access to the SFTP service.

B. Create an encrypted Amazon Elastic File System (Amazon EFS) volume. Create an AWS Transfer Family SFTP service with elastic IP addresses and a VPC endpoint that has internet-facing access. Attach a security group to the endpoint that allows only trusted IP addresses. Attach the EFS volume to the SFTP service endpoint. Grant users access to the SFTP service.

C. Create an Amazon S3 bucket with default encryption enabled. Create an AWS Transfer Family SFTP service with a public endpoint that allows only trusted IP addresses. Attach the S3 bucket to the SFTP service endpoint. Grant users access to the SFTP service.

D. Create an Amazon S3 bucket with default encryption enabled. Create an AWS Transfer Family SFTP service with a VPC endpoint that has internal access in a private subnet. Attach a security group that allows only trusted IP addresses. Attach the S3 bucket to the SFTP service endpoint. Grant users access to the SFTP service.

Correct Answer: C		
Community vote distribution		
B (82%)	Other	

😑 🌲 pentium75 (Highly Voted 🖬) 5 months, 2 weeks ago

Selected Answer: B

Not A - Transfer Family canj't use EBS

B - Possible and meets requirement

Not C - S3 doesn't guarantee "high IOPS performance"; also there is no "public endpoint that allows only trusted IP addresses" (you can assign a Security Group to a public endpoint but that is not mentioned here)

Not D - Endpoint would be in private subnet, not accessible from Internet at all

upvoted 5 times

E & NickGordon Most Recent (2) 7 months ago

Selected Answer: B

A is incorrect as EBS is not an option

C is incorrect as when I select public accessible, I don't see an option I can set up trusted IP address D isi incorrect as it is internal.

B, followed the steps and I can set up a sftp in this way upvoted 3 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: B

В

EFS has lower latency and higher throughput than S3 when accessed from within the same availability zone. upvoted 2 times

😑 🌲 thanhnv142 7 months, 3 weeks ago

C: Because it is server-less. deffinitely not A or B because it utilizes server. upvoted 1 times

😑 💄 warp 7 months, 3 weeks ago

Amazon Elastic File System - Serverless, fully elastic file storage: https://aws.amazon.com/efs/

upvoted 3 times

😑 🌲 bsbs1234 8 months, 2 weeks ago

Β,

A), transfer family does not support EBS C,D), S3 has lower IOPS than EFS

upvoted 3 times

Guru4Cloud 9 months, 2 weeks ago

Selected Answer: B

Create an encrypted Amazon Elastic File System (Amazon EFS) volume. Create an AWS Transfer Family SFTP service with elastic IP addresses and a VPC endpoint that has internet-facing access. Attach a security group to the endpoint that allows only trusted IP addresses. Attach the EFS volume to the SFTP service endpoint. Grant users access to the SFTP service.

upvoted 1 times

🖃 🌲 Axeashes 12 months ago

https://aws.amazon.com/blogs/storage/use-ip-whitelisting-to-secure-your-aws-transfer-for-sftp-servers/ upvoted 1 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: B

EFS is best to serve this purpose. upvoted 1 times

😑 🌲 alexandercamachop 1 year ago

Selected Answer: B

First Serverless - EFS

Second it says it is attached to the Linux instances at the same time, only EFS can do that. upvoted 4 times

😑 🌡 envest 1 year ago

Answer C (from abylead.com)

Transfer Family offers fully managed serverless support for B2B file transfers via SFTP, AS2, FTPS, & FTP directly in & out of S3 or EFS. For a controlled internet access you can use internet-facing endpts with Transfer SFTP servers & restrict trusted internet sources with VPC's default Sgrp. In addition, S3 Access Points aliases allows you to use S3 bkt names for a unique access control plcy on shared S3 datasets. Transfer SFTP & S3: https://aws.amazon.com/blogs/apn/how-to-use-aws-transfer-family-to-replace-and-scale-sftp-servers/

A)Transfer SFTP doesn't support EBS, not for share data, & not serverless: infeasible.

B)EFS mounts via ENIs not endpts: infeasible.

D)pub endpt for internet access is missing: infeasible.

upvoted 4 times

😑 🏝 omoakin 1 year ago

😑 🌲 vesen22 1 year ago

Selected Answer: B

EFS all day upvoted 2 times

😑 上 norris81 1 year ago

https://aws.amazon.com/blogs/storage/use-ip-whitelisting-to-secure-your-aws-transfer-for-sftp-servers/ is worth a read upvoted 2 times

😑 💄 odjr 1 year ago

Selected Answer: B

EFS is serverless. There is no reference in S3 about IOPS upvoted 2 times

😑 🌲 willyfoogg 1 year ago

Selected Answer: B

Option D is incorrect because it suggests using an S3 bucket in a private subnet with a VPC endpoint, which may not meet the requirement of maintaining control over user permissions as effectively as the EFS-based solution. upvoted 2 times

😑 🌡 anibinaadi 1 year ago

lt is D

Refer https://docs.aws.amazon.com/transfer/latest/userguide/create-server-in-vpc.html for further details. upvoted 1 times

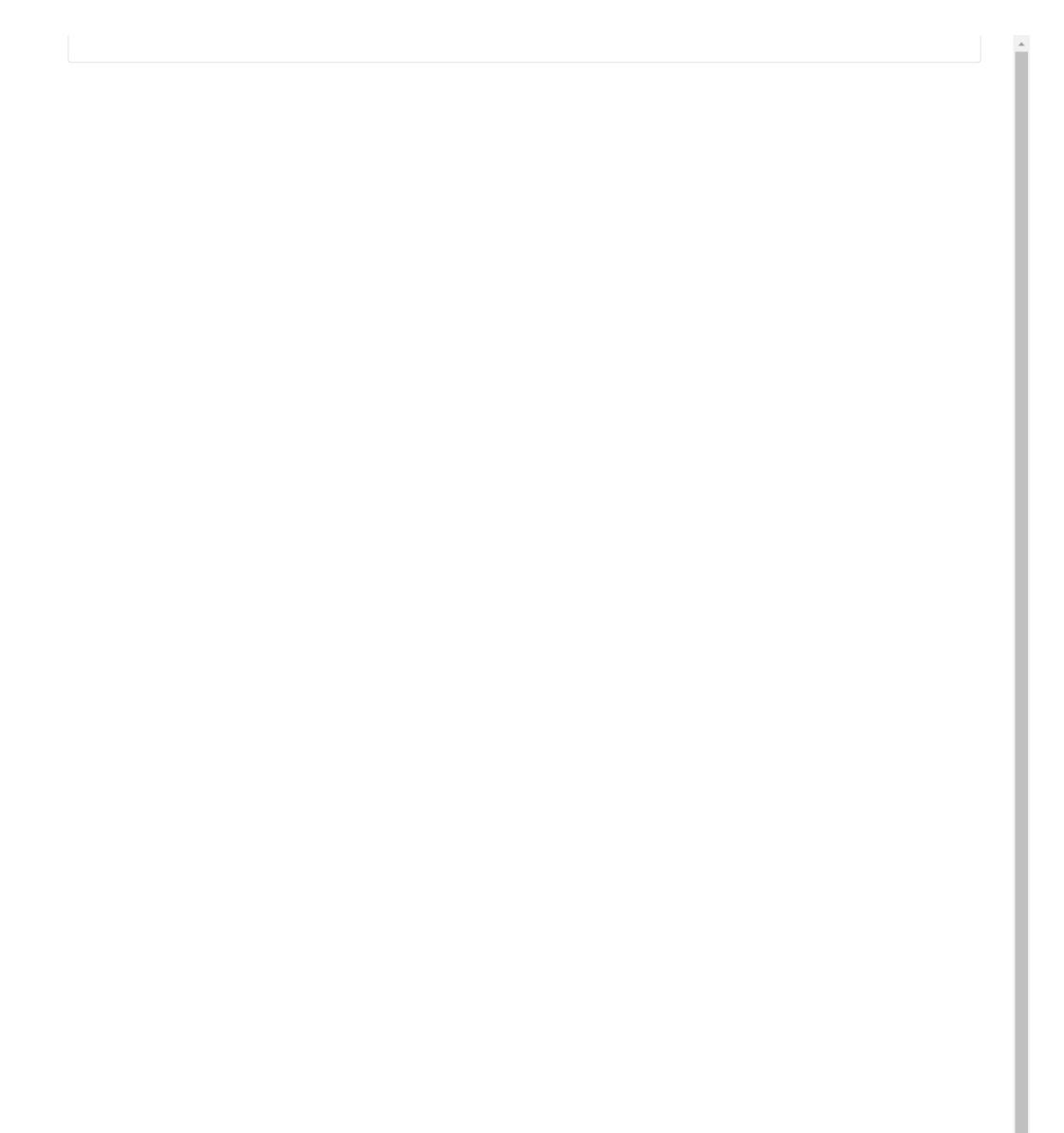
😑 🌲 pentium75 5 months, 2 weeks ago

In D you create an "endpoint that has internal access in a private subnet", how to access that from the Internet? upvoted 1 times

😑 🌲 elmogy 1 year ago

Selected Answer: B

EFS is serverless and has high IOPS. regardless the IOPS, I believe option D is incorrect because it is internal, and the request needs internet access upvoted 4 times



Question #422

A company is developing a new machine learning (ML) model solution on AWS. The models are developed as independent microservices that fetch approximately 1 GB of model data from Amazon S3 at startup and load the data into memory. Users access the models through an asynchronous API. Users can send a request or a batch of requests and specify where the results should be sent.

The company provides models to hundreds of users. The usage patterns for the models are irregular. Some models could be unused for days or weeks. Other models could receive batches of thousands of requests at a time.

Which design should a solutions architect recommend to meet these requirements?

A. Direct the requests from the API to a Network Load Balancer (NLB). Deploy the models as AWS Lambda functions that are invoked by the NLB.

B. Direct the requests from the API to an Application Load Balancer (ALB). Deploy the models as Amazon Elastic Container Service (Amazon ECS) services that read from an Amazon Simple Queue Service (Amazon SQS) queue. Use AWS App Mesh to scale the instances of the ECS cluster based on the SQS queue size.

C. Direct the requests from the API into an Amazon Simple Queue Service (Amazon SQS) queue. Deploy the models as AWS Lambda functions that are invoked by SQS events. Use AWS Auto Scaling to increase the number of vCPUs for the Lambda functions based on the SQS queue size.

D. Direct the requests from the API into an Amazon Simple Queue Service (Amazon SQS) queue. Deploy the models as Amazon Elastic Container Service (Amazon ECS) services that read from the queue. Enable AWS Auto Scaling on Amazon ECS for both the cluster and copies of the service based on the queue size.

Correct Answer: *D*

Community vote distribution

D (100%)

😑 🌲 examtopictempacc (Highly Voted 🖬) 1 year ago

asynchronous=SQS, microservices=ECS. Use AWS Auto Scaling to adjust the number of ECS services. upvoted 14 times

😑 🆀 TariqKipkemei 1 year ago

good breakdown :) upvoted 2 times

😑 🌲 TariqKipkemei (Highly Voted 🖬) 1 year ago

Selected Answer: D

For once examtopic answer is correct :) haha...

Batch requests/async = Amazon SQS Microservices = Amazon ECS Workload variations = AWS Auto Scaling on Amazon ECS upvoted 8 times

😑 🛔 wizcloudifa (Most Recent 🕐) 1 month, 3 weeks ago

Selected Answer: D

ALB is mentioned in other options to distract you, you dont need ALB for scaling here, we would need ECS autoscaling, they play with that idea in option B a bit however D gets it in a completely optimized way.... A and C both have lambda which for Machine learning models with workloads or heavy side, will not fly upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 2 weeks ago

Selected Answer: D

I go with everyone D.

upvoted 2 times

😑 🏝 alexandercamachop 1 year ago

Selected Answer: D

D, no need for an App Load balancer like C says, no where in the text.

SQS is needed to ensure all request gets routed properly in a Microservices architecture and also that it waits until its picked up. ECS with Autoscaling, will scale based on the unknown pattern of usage as mentioned.

upvoted 1 times

😑 🏝 anibinaadi 1 year ago

lt is D

Refer https://aws.amazon.com/blogs/containers/amazon-elastic-container-service-ecs-auto-scaling-using-custom-metrics/ for additional information/knowledge.

upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: D

because it is scalable, reliable, and efficient. C does not scale the models automatically upvoted 3 times

😑 🌲 deechean 9 months, 2 weeks ago

why C doesn't scale the model? Application Auto Scaling can apply to lambda. upvoted 1 times

😑 💄 NSA_Poker 1 week, 4 days ago

Auto Scaling doesn't apply to Lambda. As your functions receive more requests, Lambda automatically handles scaling the number of execution environments until you reach your account's concurrency limit. upvoted 1 times

😑 🌲 pentium75 5 months, 2 weeks ago

How would you "use Auto Scaling (!) to increase the number of vCPUs (!) for the Lamba functions"? upvoted 2 times

Question #423

Topic 1

A solutions architect wants to use the following JSON text as an identity-based policy to grant specific permissions:

Which IAM principals can the solutions architect attach this policy to? (Choose two.)

A. Role

B. Group

C. Organization

D. Amazon Elastic Container Service (Amazon ECS) resource

E. Amazon EC2 resource

Correct Answer: *AB*

Community vote distribution

AB (100%)

😑 👗 nosense (Highly Voted 🖬) 1 year ago

Selected Answer: AB

identity-based policy used for role and group upvoted 16 times

😑 👗 dkw2342 (Most Recent 🕐) 3 months, 1 week ago

AB is correct, but the question is misleading because, according to the AWS IAM documentation, groups are not considered principals: https://docs.aws.amazon.com/IAM/latest/UserGuide/intro-structure.html#intro-structure-principal." upvoted 2 times

😑 🌲 pentium75 5 months, 2 weeks ago

Selected Answer: AB

Isn't the content of the policy completely irrelevant? IAM policies are applied to users, groups or roles ... upvoted 4 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: AB

- A. Role B. Group
 - Group

upvoted 2 times

😑 💄 TariqKipkemei 1 year ago

Selected Answer: AB

Role or group upvoted 1 times A company is running a custom application on Amazon EC2 On-Demand Instances. The application has frontend nodes that need to run 24 hours a day, 7 days a week and backend nodes that need to run only for a short time based on workload. The number of backend nodes varies during the day.

The company needs to scale out and scale in more instances based on workload.

Which solution will meet these requirements MOST cost-effectively?

A. Use Reserved Instances for the frontend nodes. Use AWS Fargate for the backend nodes.

B. Use Reserved Instances for the frontend nodes. Use Spot Instances for the backend nodes.

C. Use Spot Instances for the frontend nodes. Use Reserved Instances for the backend nodes.

D. Use Spot Instances for the frontend nodes. Use AWS Fargate for the backend nodes.

Correct Answer: *B*

Community vote distribution B (64%)

A (36%)

😑 👗 nosense (Highly Voted 🖬) 1 year ago

Selected Answer: B Reserved + spot. Fargate for serverless upvoted 14 times

😑 🆀 Ramdi1 (Highly Voted 🖬) 8 months, 1 week ago

Selected Answer: A

Has to be A, It can scale down if required and you will be charged for what you use with fargate. Secondly they have not said the backend can have timeouts or can be down for a little period of time or something. So it has to rule out any spot instances even though they are cheaper. upvoted 12 times

😑 🎩 awsgeek75 5 months, 1 week ago

Fargate is serverless EKS so it cannot manage EC2 nodes upvoted 2 times

😑 💄 mussha (Most Recent 🕑) 3 months, 1 week ago

Selected Answer: B

B) because firegate is containser upvoted 2 times

😑 💄 noircesar25 3 months, 2 weeks ago

so what ive make up from this scenario is: the key word right here is "backend nodes" you cant use a serverless compute service with nodes and you need to use EC2s

so if we had ECS EC2 lunch type or on-demand EC2s as an options for the backend, they would be true? upvoted 2 times

😑 🌡 mwwt2022 5 months, 1 week ago

Selected Answer: B

24-7 usage for fe -> reserved instance irregular workload for be -> spot instance upvoted 3 times

E **Pentium75** 5 months, 1 week ago

Selected Answer: B

Not A because Fargate runs containers, not EC2 instances. But we have no indication that the workload would be containerized; it runs "on EC2 instances".

Not C and D because frontend must run 24/7, can't use Spot.

Thus B, yes, Spot instances are risky, but as they need to run "only for a short time" it seems acceptable.

Technically ideal option would be Reserved Instances for frontend nodes and On-demand instances for backend nodes, but that is not an option here.

upvoted 4 times

😑 🌡 Wuhao 6 months, 1 week ago

Selected Answer: B

Not sure the application can be containerized upvoted 2 times

E 🌢 AwsZora 6 months, 1 week ago

Selected Answer: A

it is safe

upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Fargate = containers A is wrong upvoted 1 times

😑 🌲 meowruki 6 months, 2 weeks ago

Selected Answer: B

Reserved Instances (RIs) for Frontend Nodes: Since the frontend nodes need to run continuously (24/7), using Reserved Instances for them makes sense. RIs provide significant cost savings compared to On-Demand Instances for steady-state workloads.

Spot Instances for Backend Nodes: Spot Instances are suitable for short-duration workloads and can be significantly cheaper than On-Demand Instances. Since the number of backend nodes varies during the day, Spot Instances can help you take advantage of spare capacity at a lower cost. Keep in mind that Spot Instances may be interrupted if the capacity is needed elsewhere, so they are best suited for stateless and fault-tolerant workloads.

upvoted 1 times

😑 💄 meowruki 6 months, 2 weeks ago

Option A (Use Reserved Instances for the frontend nodes. Use AWS Fargate for the backend nodes): AWS Fargate is a serverless compute engin for containers, and it may not be the best fit for the described backend workload, especially if the number of backend nodes varies during the day.

upvoted 1 times

😑 🌲 Goutham4981 6 months, 3 weeks ago

Selected Answer: B

AWS Fargate is a serverless compute engine for containers that allows you to run containers without having to manage the underlying infrastructure. It simplifies the process of deploying and managing containerized applications by abstracting away the complexities of server management, scaling, and cluster orchestration.

No containerized application requirements are mentioned in the question. Plain EC2 instances. So Fargate is not actually an option upvoted 2 times

😑 🌲 thanhnv142 7 months, 3 weeks ago

A is fargate, which is none sense. B seems more OK (though none-sense) upvoted 3 times

😑 💄 dilaaziz 8 months, 2 weeks ago

Selected Answer: A

Fargate for backend node upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Fargate is for containers not EC2 so A is wrong upvoted 1 times

😑 🌢 Wayne23Fang 8 months, 3 weeks ago

Selected Answer: A

(B) would take chance, though unlikely (A) is server-less auto-scaling. In case backend is idle, it might scale down, save money but no need to worr for interruption by Spot instance.

upvoted 2 times

😑 🌲 Ale1973 10 months ago

Selected Answer: A

If you will use spot instances you must assumme lost any job in course. This scenary has not explicit mentions about aaplication can tolerate this situations, then, on my opinion, option A is the most suitable.

upvoted 3 times

😑 🌲 pentium75 5 months, 1 week ago

But the app is not containerized, it can't run on Fargate without significant changes. upvoted 1 times

😑 🌲 james2033 10 months, 3 weeks ago

Selected Answer: B

Question keyword "scale out and scale in more instances". Therefore not related Kubernetes. Choose B, reserved instance for front-end and spot instance for back-end.

upvoted 1 times

😑 💄 Gooniegoogoo 11 months, 2 weeks ago

im on the fence for SPOT because you could lose your spot during a workload and it doesnt mention that, that is acceptable.. Business needs to define requirements and document acceptability for this or you lose your job.. upvoted 1 times

😑 🛔 Ale1973 10 months ago

Totally agree, lose job in course is an assumption for use spot instances and scenary has not explicit mentions about upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

But C and D are out because it would run the frontend on Spot instances, and A is out because the workload is not containerized. upvoted 1 times

😑 🌲 TariqKipkemei 1 year ago

Option B will meet this requirement:

Frontend nodes that need to run 24 hours a day, 7 days a week = Reserved Instances Backend nodes run only for a short time = Spot Instances upvoted 2 times

Question #425

Which Amazon Elastic Block Store (Amazon EBS) volume type will meet these requirements MOST cost-effectively?

Α.	GP2	vol	lume	type
<i>/</i> .	01 2	101	unic	ype

B. io2 volume type

C. GP3 volume type

D. io1 volume type

Correct Answer: C		
Community vote distribution		
	C (94%)	6%

😑 🜲 nosense (Highly Voted 🖬 1 year ago

Selected Answer: C

Gp3 \$ 0.08 usd per gb Gp2 \$ 0.10 usd per gb upvoted 13 times

😑 🌲 Yadav_Sanjay (Highly Voted 🐽) 1 year ago

Selected Answer: C

Both GP2 and GP3 has max IOPS 16000 but GP3 is cost effective.

https://aws.amazon.com/blogs/storage/migrate-your-amazon-ebs-volumes-from-gp2-to-gp3-and-save-up-to-20-on-costs/ upvoted 9 times

😑 👗 Guru4Cloud (Most Recent 🕐) 9 months, 3 weeks ago

Selected Answer: C

C. GP3 volume type upvoted 3 times

😑 🌲 james2033 10 months, 3 weeks ago

Selected Answer: C

Quote "customers can scale up to 16,000 IOPS and" at https://aws.amazon.com/about-aws/whats-new/2020/12/introducing-new-amazon-ebs-general-purpose-volumes-gp3/ upvoted 3 times

.

😑 🛔 alexandercamachop 1 year ago

Selected Answer: C

The GP3 (General Purpose SSD) volume type in Amazon Elastic Block Store (EBS) is the most cost-effective option for the given requirements. GP3 volumes offer a balance of price and performance and are suitable for a wide range of workloads, including those with moderate I/O needs.

GP3 volumes allow you to provision performance independently from storage capacity, which means you can adjust the baseline performance (measured in IOPS) and throughput (measured in MiB/s) separately from the volume size. This flexibility allows you to optimize your costs while meeting the workload requirements.

In this case, since the company's daily peak input and output transactions per second are not more than 15,000 IOPS, GP3 volumes provide a suitable and cost-effective option for their workloads.

upvoted 1 times

😑 🌡 maver144 1 year ago

Selected Answer: B

It is not C pals. The company wants to migrate the workloads to Amazon EC2 and to provision disk performance independent of storage capacity. With GP3 we have to increase storage capacity to increase IOPS over baseline.

You can only chose IOPS independetly with IO family and IO2 is in general better then IO1. upvoted 2 times

😑 💄 somsundar 11 months ago

@maver144 - That's the case with GP2 volumes. With GP3 we can define IOPS independent of storage capacity. upvoted 3 times

😑 💄 Joselucho38 1 year ago

Selected Answer: C

Therefore, the most suitable and cost-effective option in this scenario is the GP3 volume type (option C). upvoted 1 times

😑 🛔 Efren 1 year ago

Selected Answer: C

GPS3 allows 16000 IOPS upvoted 3 times

The company hosts the application on an on-premises infrastructure that is running out of storage capacity. A solutions architect must securely migrate the existing data to AWS while satisfying the new regulation.

Which solution will meet these requirements?

A. Use AWS DataSync to move the existing data to Amazon S3. Use AWS CloudTrail to log data events.

B. Use AWS Snowcone to move the existing data to Amazon S3. Use AWS CloudTrail to log management events.

C. Use Amazon S3 Transfer Acceleration to move the existing data to Amazon S3. Use AWS CloudTrail to log data events.

D. Use AWS Storage Gateway to move the existing data to Amazon S3. Use AWS CloudTrail to log management events.

Correct Answer: *B*

Community vote distribution A (57%)

D (43%)

😑 👗 thanhnv142 (Highly Voted 🖝) 7 months, 3 weeks ago

A is better because:

- Data sync is used for migrate. Storage gw is used to connect on-prem to AWS.

- dataevents is to log for access, management events is for config or management upvoted 11 times

E & pentium75 Highly Voted) 5 months, 1 week ago

Selected Answer: A

We need to log "access at all levels" aka "data events", thus B and D are out (logging only "management events" like granting permissions or changing the access tier).

C, S3 Transfer Acceleration is to increase upload performance from widespread sources or over unreliable networks, but it just provides an endpoint, it does not upload anything itself.

upvoted 8 times

😑 👗 osmk (Most Recent 🕐) 3 months, 1 week ago

Selected Answer: A

Use AWS DataSync to migrate existing data to Amazon S3https://aws.amazon.com/datasync/faqs/ upvoted 1 times

😑 🌲 NayeraB 3 months, 3 weeks ago

Selected Answer: A

It's DataSync for me upvoted 2 times

😑 🌲 frmrkc 4 months, 1 week ago

Selected Answer: D

Storage Gateway integration with CloudTrail : https://docs.aws.amazon.com/filegateway/latest/filefsxw/logging-using-cloudtrail.html

whereas DataSync can be monitored with Amazon CloudWatch: https://docs.aws.amazon.com/datasync/latest/userguide/monitor-datasync.html upvoted 2 times

😑 🌲 frmrkc 4 months, 1 week ago

and here are all Storage Gateway actions monitored by CloudTrail: https://docs.aws.amazon.com/storagegateway/latest/APIReference/API_Operations.html upvoted 1 times

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: A

B and C don't solve the problem

A is extending the data and management events are for administrative actions only (tracking account creation, user security actions etc.). C uses DataSync to move all the data and logs data events which include S3 file uploads and downloads.

Management events: User logs into an EC2 instance, creates an S3 IAM role Data events: User uploads a file to S3

upvoted 2 times

😑 🌡 benacert 5 months, 1 week ago

A- DataSync secure fast data transfer upvoted 1 times

😑 💄 ZZZ_Sleep 5 months, 3 weeks ago

Selected Answer: D

Keyword of this question = running out of storage capacity

AWS Storage Gateway = extend the on-premises storage AWS DataSync = copy data between on-premises storage

So, the answer should be D (AWS Storage Gateway) upvoted 4 times

😑 🌡 pentium75 5 months, 1 week ago

"Securely migrate the existing data to AWS" -> move data away fron on-premises storage to AWS. Plus, D logs only management events, hot "access at all levels".

upvoted 4 times

😑 👗 aws94 6 months ago

Selected Answer: D

AWS DataSync is designed for fast, simple, and secure data transfer, but it focuses more on data synchronization rather than on-premises migration.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Thus it is wrong, but more because of the incorrect logging option in this answer. upvoted 1 times

🖃 🎩 meowruki 6 months, 2 weeks ago

Selected Answer: A

AWS DataSync is suitable for data transfer and synchronization

Option D (Use AWS Storage Gateway to move the existing data to Amazon S3. Use AWS CloudTrail to log management events): AWS Storage Gateway is typically used for hybrid cloud storage solutions and may introduce additional complexity for a one-time data migration task. It might not be as straightforward as using AWS Snowcone for this specific scenario.

upvoted 1 times

😑 🎍 chikuwan 6 months, 3 weeks ago

Selected Answer: A

both DataSync and Storage Gateway are fine to sync data...but to "audit access at all levels of the stored data" ...it should be data events(data plane) operation)..management event is some account level things.

So answer should be A

upvoted 2 times

🖃 💄 bogobob 6 months, 4 weeks ago

Selected Answer: D

While both DataSync and Storage Gateway allow syncing of data between on-premise and cloud, DataSync is built for rapid shifting of data into a cloud environment, not specifically for continued use in on-premise servers.

upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

AWS DataSync is an online data transfer service that simplifies, automates, and accelerates the process of copying large amounts of data to and from AWS storage services over the Internet or over AWS Direct Connect.

upvoted 1 times

😑 🌡 pentium75 5 months, 1 week ago

What about logging? upvoted 1 times

😑 🌲 canonlycontainletters1 7 months, 2 weeks ago

Selected Answer: A

A seems to be more convincing to me. upvoted 1 times

😑 🌡 Wayne23Fang 7 months, 3 weeks ago

Selected Answer: A

tabbyDolly 1 month ago is right. Also Data Sync is designed for data changes. upvoted 2 times

E & brian202308 7 months, 3 weeks ago

Selected Answer: D

The company hosts applications on on-premises infrastructure, so they should use a Storage Gateway solution. upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

What about logging requirements? upvoted 1 times

😑 🌲 Ramdi1 8 months, 1 week ago

Selected Answer: D

Needs access to all data hence I have put D. if it said migrating to AWS and then an audit or something then I would of chosen datasync upvoted 3 times

😑 💄 pentium75 5 months, 1 week ago

D does not log accesses upvoted 1 times

A solutions architect is implementing a complex Java application with a MySQL database. The Java application must be deployed on Apache Tomcat and must be highly available.

What should the solutions architect do to meet these requirements?

A. Deploy the application in AWS Lambda. Configure an Amazon API Gateway API to connect with the Lambda functions.

B. Deploy the application by using AWS Elastic Beanstalk. Configure a load-balanced environment and a rolling deployment policy.

C. Migrate the database to Amazon ElastiCache. Configure the ElastiCache security group to allow access from the application.

D. Launch an Amazon EC2 instance. Install a MySQL server on the EC2 instance. Configure the application on the server. Create an AMI. Use the AMI to create a launch template with an Auto Scaling group.



B (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

В

AWS Elastic Beanstalk provides an easy and quick way to deploy, manage, and scale applications. It supports a variety of platforms, including Java and Apache Tomcat. By using Elastic Beanstalk, the solutions architect can upload the Java application and configure the environment to run Apache Tomcat.

upvoted 9 times

😑 🌲 zinabu Most Recent 🕐 1 month, 3 weeks ago

By using Elastic Beanstalk, the solutions architect can upload the Java application and configure the environment to run Apache Tomcat. upvoted 1 times

😑 💄 wizcloudifa 1 month, 3 weeks ago

Selected Answer: B

The key word here from the question if you notice is "The Java application must be DEPLOYED..." hence Elastic Beanstalk, it is a serverless deployment service and supports a variety of platforms(apache Tomcat in our situation), and it will scale automatically with less operational overhead(unlike option D with a lot of operation overhead)

upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: B

https://aws.amazon.com/elasticbeanstalk/details/ upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

B. Deploy the application by using AWS Elastic Beanstalk. Configure a load-balanced environment and a rolling deployment policy. upvoted 3 times

😑 🌲 james2033 10 months, 3 weeks ago

Selected Answer: B

Keyword "AWS Elastic Beanstalk" for re-architecture from Java web-app inside Apache Tomcat to AWS Cloud.

upvoted 2 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: B

Definitely B upvoted 1 times

😑 🏝 antropaws 1 year ago

Selected Answer: B

Clearly B. upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: B

Easy deploy, management and scale upvoted 2 times

😑 🛔 greyrose 1 year ago

Selected Answer: B

A serverless application uses Amazon API Gateway, AWS Lambda, and Amazon DynamoDB. The Lambda function needs permissions to read and write to the DynamoDB table.

Which solution will give the Lambda function access to the DynamoDB table MOST securely?

A. Create an IAM user with programmatic access to the Lambda function. Attach a policy to the user that allows read and write access to the DynamoDB table. Store the access_key_id and secret_access_key parameters as part of the Lambda environment variables. Ensure that other AWS users do not have read and write access to the Lambda function configuration.

B. Create an IAM role that includes Lambda as a trusted service. Attach a policy to the role that allows read and write access to the DynamoDB table. Update the configuration of the Lambda function to use the new role as the execution role.

C. Create an IAM user with programmatic access to the Lambda function. Attach a policy to the user that allows read and write access to the DynamoDB table. Store the access_key_id and secret_access_key parameters in AWS Systems Manager Parameter Store as secure string parameters. Update the Lambda function code to retrieve the secure string parameters before connecting to the DynamoDB table.

D. Create an IAM role that includes DynamoDB as a trusted service. Attach a policy to the role that allows read and write access from the Lambda function. Update the code of the Lambda function to attach to the new role as an execution role.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 james2033 (Highly Voted 🖬) 10 months, 3 weeks ago

Selected Answer: B

Keyword B. " IAM role that includes Lambda as a trusted service", not "IAM role that includes DynamoDB as a trusted service" in D. It is IAM role, not IAM user.

upvoted 5 times

😑 💄 awsgeek75 (Most Recent 🕑) 5 months, 1 week ago

Selected Answer: B

DynamoDB needs to trust Lambda. NOT the other way around. So Lambda must be configured as a trusted service. Role for service which gives B and D options. D is setting up (somehow?) to allow Lambda to trust DynamoDB... or the wording makes no sense. upvoted 4 times

😑 📥 antropaws 1 year ago

(Selected Answer: B) B sounds better.

upvoted 2 times

upvoted 1 times

😑 💄 alvinnguyennexcel 1 year ago

Selected Answer: B vote B

upvoted 1 times

😑 💄 cloudenthusiast 1 year ago

В

Option B suggests creating an IAM role that includes Lambda as a trusted service, meaning the role is specifically designed for Lambda functions. The role should have a policy attached to it that grants the required read and write access to the DynamoDB table. upvoted 3 times

😑 🌲 nosense 1 year ago

Selected Answer: B

B is right Role key word and trusted service lambda upvoted 4 times

Topic 1

The following IAM policy is attached to an IAM group. This is the only policy applied to the group.

```
ſ
   "Version": "2012-10-17",
   "Statement": [
       £
          "Sid": "1",
          "Effect": "Allow",
          "Action": "ec2:*",
          "Resource": "*",
          "Condition": (
              "StringEquals": {
                  "ec2:Region": "us-east-1"
            )
          3
       1.
       {
          "Sid": "2",
         "Effect": "Deny",
       "Action": [
              "ec2:StopInstances",
              "ec2:TerminateInstances"
          1,
          "Resource": "*",
          "Condition": (
              "BoollfExists": ("aws:MultiFactorAuthPresent": false)
       ÷
3
```

What are the effective IAM permissions of this policy for group members?

A. Group members are permitted any Amazon EC2 action within the us-east-1 Region. Statements after the Allow permission are not applied.

B. Group members are denied any Amazon EC2 permissions in the us-east-1 Region unless they are logged in with multi-factor authentication (MFA).

C. Group members are allowed the ec2:StopInstances and ec2:TerminateInstances permissions for all Regions when logged in with multifactor authentication (MFA). Group members are permitted any other Amazon EC2 action.

D. Group members are allowed the ec2:StopInstances and ec2:TerminateInstances permissions for the us-east-1 Region only when logged in with multi-factor authentication (MFA). Group members are permitted any other Amazon EC2 action within the us-east-1 Region.

Correct Answer: D				
Community vote distribut	<i>tion</i> D (83%)	C (17%)		
😑 🛔 jack79 (Highly Voted	 12 months ago 			

came in exam today

upvoted 10 times

😑 👗 wizcloudifa Most Recent 🕗 1 month, 3 weeks ago

Selected Answer: D

One of the few situations when actual answer is same as the most voted answer lol upvoted 1 times

😑 🌲 pdragon1981 5 months, 2 weeks ago

Selected Answer: C

Not sure why everyone vote D, I think that the valid option as to be C as the second condition regarding MFA there is point that only refer to a specific region, so basically this means that is for all the regions upvoted 2 times

😑 🌲 pdragon1981 5 months, 2 weeks ago

Ok ignore D is right as the first condition is what gives permission to make anything for EC2 but is restricted to us-east-1 region upvoted 5 times

😑 🌲 youdelin 8 months ago

the json is describing a lot of things apparently, so I go with the longest answer lol upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

D. Group members are allowed the ec2:StopInstances and ec2:TerminateInstances permissions for the us-east-1 Region only when logged in with multi-factor authentication (MFA). Group members are permitted any other Amazon EC2 action within the us-east-1 Region upvoted 2 times

😑 💄 james2033 10 months, 3 weeks ago

Selected Answer: D

A. "Statements after the Allow permission are not applied." --> Wrong.

B. "denied any Amazon EC2 permissions in the us-east-1 Region" --> Wrong. Just deny 2 items.

C. "allowed the ec2:StopInstances and ec2:TerminateInstances permissions for all Regions" --> Wrong. Just region us-east-1.

D. ok.

upvoted 1 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: D

Only D makes sense upvoted 1 times

😑 📥 antropaws 1 year ago

Selected Answer: D

D sounds about right. upvoted 1 times

😑 🌲 alvinnguyennexcel 1 year ago

Selected Answer: D D is correct upvoted 2 times

😑 🌡 omoakin 1 year ago

D is correct upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: D D is right upvoted 2 times

A manufacturing company has machine sensors that upload .csv files to an Amazon S3 bucket. These .csv files must be converted into images and must be made available as soon as possible for the automatic generation of graphical reports.

The images become irrelevant after 1 month, but the .csv files must be kept to train machine learning (ML) models twice a year. The ML trainings and audits are planned weeks in advance.

Which combination of steps will meet these requirements MOST cost-effectively? (Choose two.)

A. Launch an Amazon EC2 Spot Instance that downloads the .csv files every hour, generates the image files, and uploads the images to the S3 bucket.

B. Design an AWS Lambda function that converts the .csv files into images and stores the images in the S3 bucket. Invoke the Lambda function when a .csv file is uploaded.

C. Create S3 Lifecycle rules for .csv files and image files in the S3 bucket. Transition the .csv files from S3 Standard to S3 Glacier 1 day after they are uploaded. Expire the image files after 30 days.

D. Create S3 Lifecycle rules for .csv files and image files in the S3 bucket. Transition the .csv files from S3 Standard to S3 One Zone-Infrequent Access (S3 One Zone-IA) 1 day after they are uploaded. Expire the image files after 30 days.

E. Create S3 Lifecycle rules for .csv files and image files in the S3 bucket. Transition the .csv files from S3 Standard to S3 Standard-Infrequent Access (S3 Standard-IA) 1 day after they are uploaded. Keep the image files in Reduced Redundancy Storage (RRS).

Correct Answer: BC	
Community vote distribution	
BC (88%)	12%

😑 🌲 awsgeek75 5 months, 1 week ago

Selected Answer: BC

B for processing the images via Lambda as it's more cost efficient than EC2 spot instances C for expiring images after 30 days and because the ML trainings are planned weeks in advance so S3 glacier is ideal for slow retrieval and cheap storage.

D and E uses S3 infrequent access which is more expensive than glacier upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: BC

Not A, we need the images "as soon as possible", A runs every hour "ML trainings and audits are planned weeks in advance" thus Glacier (C) is ok. upvoted 2 times

🖃 💄 Xin123 8 months, 2 weeks ago

Selected Answer: BC

Answer is B&C. For D, you must store data for 30 days in s3 standard before move to IA tiers, glacier is fine

https://docs.aws.amazon.com/AmazonS3/latest/userguide/lifecycle-transition-generalconsiderations.html#:~:text=Before%20you%20transition%20objects%20to%20S3%20Standard%2DIA%20or%20S3%20One%20Zone%2DIA%2C% 0you%20must%20store%20them%20for%20at%20least%2030%20days%20in%20Amazon%20S3 upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: BC

Definitely B & C upvoted 2 times

😑 🌲 jayce5 10 months, 2 weeks ago

Selected Answer: BC

A. Wrong, the .csv files must be processed asap.

D and E are incorrect since Glacier is the most cost-effective option, and plans for using .csv files are known weeks in advance. upvoted 1 times

😑 🌲 james2033 10 months, 3 weeks ago

Why need "These .csv files must be converted into images"?

upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Because they are being used in some graphical reports (probably fancy powerpoint presentations!) upvoted 1 times

😑 🌲 smartegnine 11 months, 3 weeks ago

Selected Answer: BC

the key word is Weeks in advance, even you save data in S3 Gracia will also OK to take couples days to retrieve the data upvoted 2 times

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: BC

Definitely B & C upvoted 1 times

😑 📥 Abrar2022 1 year ago

Selected Answer: BC

A. Wrong because Lifecycle rule is not mentioned.

B. CORRECT

C. CORRECT

D. Why Store on S3 One Zone-Infrequent Access (S3 One Zone-IA) when the files are going to irrelevant after 1 month? (Availability 99.99% - consider cost)

E. again, Why use Reduced Redundancy Storage (RRS) when the files are irrelevant after 1 month? (Availability 99.99% - consider cost) upvoted 3 times

😑 💄 vesen22 1 year ago

Selected Answer: BC

https://docs.aws.amazon.com/amazonglacier/latest/dev/introduction.html upvoted 3 times

😑 🛔 RoroJ 1 year ago

Selected Answer: BE

B: Serverless and fast responding

E: will keep .csv file for a year, C and D expires the file after 30 days. upvoted 3 times

😑 💄 RoroJ 1 year ago

B&C, misread the question, expires the image files after 30 days. upvoted 2 times

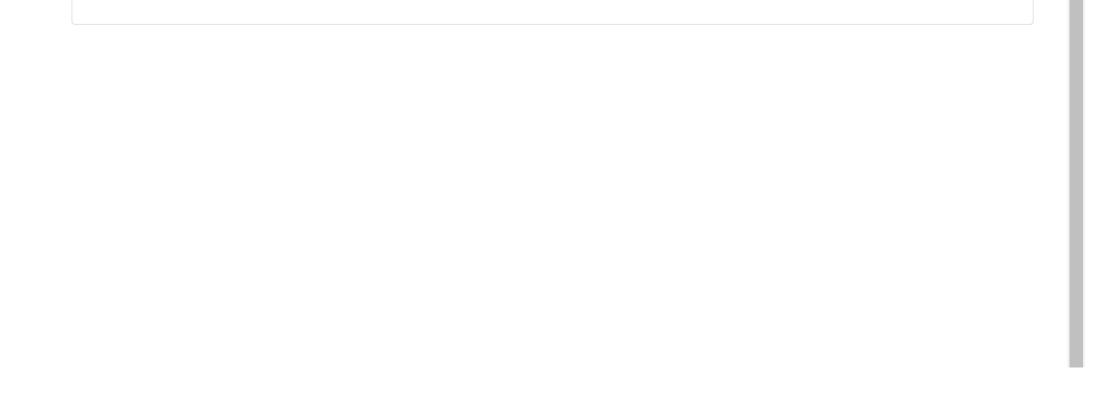
😑 🌲 hiroohiroo 1 year ago

Selected Answer: BC

https://aws.amazon.com/jp/about-aws/whats-new/2021/11/amazon-s3-glacier-storage-class-amazon-s3-glacier-flexible-retrieval/ upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: BC B severless and cost effective C corrctl rule to store upvoted 2 times



A company has developed a new video game as a web application. The application is in a three-tier architecture in a VPC with Amazon RDS for MySQL in the database layer. Several players will compete concurrently online. The game's developers want to display a top-10 scoreboard in near-real time and offer the ability to stop and restore the game while preserving the current scores.

What should a solutions architect do to meet these requirements?

A. Set up an Amazon ElastiCache for Memcached cluster to cache the scores for the web application to display.

B. Set up an Amazon ElastiCache for Redis cluster to compute and cache the scores for the web application to display.

C. Place an Amazon CloudFront distribution in front of the web application to cache the scoreboard in a section of the application.

D. Create a read replica on Amazon RDS for MySQL to run queries to compute the scoreboard and serve the read traffic to the web application.

Correct Answer: B		
Community vote distribution	B (96%)	4%

😑 🛔 Guru4Cloud (Highly Voted 🐽) 9 months, 3 weeks ago

Selected Answer: B

Redis provides fast in-memory data storage and processing. It can compute the top 10 scores and update the cache in milliseconds. ElastiCache Redis supports sorting and ranking operations needed for the top 10 leaderboard. The cached leaderboard can be retrieved from Redis vs hitting the MySQL database for every read. This reduces load on the database. Redis supports persistence, so scores are preserved if the cache stops/restarts

upvoted 8 times

😑 👗 TariqKipkemei (Highly Voted 🖬) 7 months, 2 weeks ago

Selected Answer: B

Real-time gaming leaderboards are easy to create with Amazon ElastiCache for Redis. Just use the Redis Sorted Set data structure, which provides uniqueness of elements while maintaining the list sorted by their scores. Creating a real-time ranked list is as simple as updating a user's score eac time it changes. You can also use Sorted Sets to handle time series data by using timestamps as the score.

https://aws.amazon.com/elasticache/redis/#:~:text=ElastiCache%20for%20Redis.-,Gaming,-Leaderboards upvoted 6 times

E Spotomac Most Recent (2) 7 months, 1 week ago

Selected Answer: B

ElastiCache for Redis sorts and ranks datasets upvoted 4 times

😑 🌲 5ab5e39 9 months ago

https://aws.amazon.com/blogs/database/building-a-real-time-gaming-leaderboard-with-amazon-elasticache-for-redis/ upvoted 3 times

😑 🌲 ukivanlamlpi 10 months ago

Selected Answer: A concurrently = memcached upvoted 1 times

🖃 🏜 awsgeek75 5 months ago

Amazon ElastiCache for Memcached is non-persistent so start/stop of game will lose the score." and offer the ability to stop and restore the game while preserving the current scores."

upvoted 2 times

😑 💄 james2033 11 months ago

Selected Answer: B

See case study of leaderboard with Redis at https://redis.io/docs/data-types/sorted-sets/, it is feature "sorted sets". See comparison between Redi an d Memcached at https://docs.aws.amazon.com/AmazonElastiCache/latest/mem-ug/SelectEngine.html, the different at feature "Sorted sets" upvoted 3 times

E & live_reply_developers 11 months, 1 week ago

Selected Answer: B

advanced data structures, complex querying, pub/sub messaging, or persistence, Redis may be a better fit. upvoted 1 times

😑 🌲 haoAWS 11 months, 3 weeks ago

B is correct upvoted 1 times

😑 💄 jf_topics 1 year ago

B correct. upvoted 1 times

😑 🌲 hiroohiroo 1 year ago

Selected Answer: B

https://aws.amazon.com/jp/blogs/news/building-a-real-time-gaming-leaderboard-with-amazon-elasticache-for-redis/ upvoted 3 times

😑 🌲 cloudenthusiast 1 year ago

Amazon ElastiCache for Redis is a highly scalable and fully managed in-memory data store. It can be used to store and compute the scores in real time for the top-10 scoreboard. Redis supports sorted sets, which can be used to store the scores as well as perform efficient queries to retrieve th top scores. By utilizing ElastiCache for Redis, the web application can quickly retrieve the current scores without the need to perform complex and potentially resource-intensive database queries.

upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: B

B is right upvoted 1 times

😑 💄 Efren 1 year ago

More questions!!! upvoted 4 times

An ecommerce company wants to use machine learning (ML) algorithms to build and train models. The company will use the models to visualize complex scenarios and to detect trends in customer data. The architecture team wants to integrate its ML models with a reporting platform to analyze the augmented data and use the data directly in its business intelligence dashboards.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS Glue to create an ML transform to build and train models. Use Amazon OpenSearch Service to visualize the data.

B. Use Amazon SageMaker to build and train models. Use Amazon QuickSight to visualize the data.

C. Use a pre-built ML Amazon Machine Image (AMI) from the AWS Marketplace to build and train models. Use Amazon OpenSearch Service to visualize the data.

D. Use Amazon QuickSight to build and train models by using calculated fields. Use Amazon QuickSight to visualize the data.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: B

Machine Learning = Sage Maker so B for least operational overhead

A and D are not right technologies.

C is possible but with more overhead of using AMI even if you can get OpenSearch to visualize the data somehow which I don't think is possible without massive overhead

upvoted 2 times

😑 🏝 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Use Amazon SageMaker to build and train models. Use Amazon QuickSight to visualize the data. upvoted 2 times

😑 🌲 james2033 10 months, 3 weeks ago

Selected Answer: B

Question keyword "machine learning", answer keyword "Amazon SageMaker". Choose B. Use Amazon QuickSight for visualization. See "Gaining insights with machine learning (ML) in Amazon QuickSight" at https://docs.aws.amazon.com/quicksight/latest/user/making-data-driven-decisions-with-ml-in-quicksight.html

upvoted 2 times

E & VellaDevil 11 months, 1 week ago

Selected Answer: B						
Sagemaker.						
upvoted 1 times						

😑 🌲 TariqKipkemei 1 year ago

Selected Answer: B Business intelligence, visualiations = AmazonQuicksight ML = Amazon SageMaker

upvoted 2 times

😑 🏝 antropaws 1 year ago

Selected Answer: B

Most likely B. upvoted 1 times

😑 🌲 omoakin 1 year ago

Amazon SageMaker is a fully managed service that provides every developer and data scientist with the ability to build, train, and deploy ML models quickly.

upvoted 1 times

😑 🌲 cloudenthusiast 1 year ago

Amazon SageMaker is a fully managed service that provides a complete set of tools and capabilities for building, training, and deploying ML models. It simplifies the end-to-end ML workflow and reduces operational overhead by handling infrastructure provisioning, model training, and deployment.

To visualize the data and integrate it into business intelligence dashboards, Amazon QuickSight can be used. QuickSight is a cloud-native business

intelligence service that allows users to easily create interactive visualizations, reports, and dashboards from various data sources, including the augmented data generated by the ML models.

upvoted 2 times

😑 🌡 Efren 1 year ago

Selected Answer: B

ML== SageMaker upvoted 1 times

😑 🛔 nosense 1 year ago

Selected Answer: B

B sagemaker provide deploy ml models upvoted 1 times

A company is running its production and nonproduction environment workloads in multiple AWS accounts. The accounts are in an organization in AWS Organizations. The company needs to design a solution that will prevent the modification of cost usage tags.

Which solution will meet these requirements?

- A. Create a custom AWS Config rule to prevent tag modification except by authorized principals.
- B. Create a custom trail in AWS CloudTrail to prevent tag modification.
- C. Create a service control policy (SCP) to prevent tag modification except by authorized principals.
- D. Create custom Amazon CloudWatch logs to prevent tag modification.

Correct Answer: C

Community vote distribution

C (100%)

😑 🛔 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: C

Tip: AWS Organziaton + service control policy (SCP) - This for any questions, you see both together. then you tell me C. Create a service control policy (SCP) to prevent tag modification except by authorized principals. upvoted 5 times

😑 👗 awsgeek75 🛛 Most Recent 🕑 🕽 5 months ago

Selected Answer: C

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps.html

AWS example for this question/use case:

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps_examples_tagging.html#example-require-restrict-tagmods-to-admin

upvoted 2 times

😑 上 james2033 10 months, 3 weeks ago

Selected Answer: C

D "Amazon CloudWatch" just for logging, not for prevent tag modification https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_tag-policies-cwe.html

Amazon Organziaton has "Service Control Policy (SCP)" with "tag policy" https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_tag-policies.html . Choose C.

AWS Config for technical stuff, not for tag policies. Not A. upvoted 3 times

😑 🆀 TariqKipkemei 1 year ago

Selected Answer: C

Service control policies (SCPs) are a type of organization policy that you can use to manage permissions in your organization. upvoted 1 times

E **alexandercamachop** 1 year ago

Selected Answer: C

Anytime we need to restrict anything in an AWS Organization, it is SCP Policies. upvoted 2 times

😑 🌲 Abrar2022 1 year ago

AWS Config is for tracking configuration changes upvoted 1 times

😑 🆀 Abrar2022 1 year ago

so it's wrong. Right asnwer is C upvoted 2 times

😑 🏝 antropaws 1 year ago

Selected Answer: C

I'd say C.

upvoted 2 times

😑 🌡 hiroohiroo 1 year ago

Selected Answer: C

https://docs.aws.amazon.com/ja_jp/organizations/latest/userguide/orgs_manage_policies_scps_examples_tagging.html upvoted 3 times

😑 💄 nosense 1 year ago

Selected Answer: C

Denies tag: modify upvoted 2 times

A company hosts its application in the AWS Cloud. The application runs on Amazon EC2 instances behind an Elastic Load Balancer in an Auto Scaling group and with an Amazon DynamoDB table. The company wants to ensure the application can be made available in another AWS Region with minimal downtime.

What should a solutions architect do to meet these requirements with the LEAST amount of downtime?

A. Create an Auto Scaling group and a load balancer in the disaster recovery Region. Configure the DynamoDB table as a global table. Configure DNS failover to point to the new disaster recovery Region's load balancer.

B. Create an AWS CloudFormation template to create EC2 instances, load balancers, and DynamoDB tables to be launched when needed Configure DNS failover to point to the new disaster recovery Region's load balancer.

C. Create an AWS CloudFormation template to create EC2 instances and a load balancer to be launched when needed. Configure the DynamoDB table as a global table. Configure DNS failover to point to the new disaster recovery Region's load balancer.

D. Create an Auto Scaling group and load balancer in the disaster recovery Region. Configure the DynamoDB table as a global table. Create an Amazon CloudWatch alarm to trigger an AWS Lambda function that updates Amazon Route 53 pointing to the disaster recovery load balancer.

Correct Answer: A

Community vote distribution A (55%)

C (38%) 7%

😑 🜲 lucdt4 (Highly Voted 🖬 1 year ago

Selected Answer: A

A and D is correct.

But Route 53 haves a feature DNS failover when instances down so we dont need use Cloudwatch and lambda to trigger

-> A correct

upvoted 12 times

😑 🌲 Wablo 11 months, 4 weeks ago

Yes it does but you configure it. Its not automated anymore. D is the best answer! upvoted 1 times

😑 👗 Kp88 10 months, 2 weeks ago

What are you talking about configuring ? Yes you have to configure everything at some point https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/dns-failover-configuring.html upvoted 1 times

😑 🌲 smartegnine 11 months, 3 weeks ago

Did not see Route 53 in this question right? So my opinion is D upvoted 1 times

E & pentium75 Highly Voted 1 5 months, 1 week ago

Selected Answer: C

They are not asking for automatic failover, they want to "ensure the application can (!) be made available in another AWS Region with minimal downtime". This works with C; they would just execute the template and it would be available in short time.

A would create a DR environment that IS already available, which is not what the question asks for. D is like A, just abusing Lambda to update the DNS record (which doesn't make sense).

B would create a separate, empty database

upvoted 5 times

😑 🌲 anikolov Most Recent 🕗 5 months ago

Selected Answer: A

With the LEAST amount of downtime = A Cost effective = C, but risky some of EC2 types/capacity not available in Region at the time, when need to switch to DR upvoted 4 times

😑 📥 awsgeek75 5 months ago

Selected Answer: C

There are 2 parts. DB and application. Dynamo DB recovery in another region is not possible without global table so option B is out. A will make the infra available in 2 regions which is not required. The question is about DR, not scaling. D Use Lambda to modify R53 to point to new region. This is going to cause delays but is possible and it will also be running a scaled EC2 instances in passive region.

C Make a CF template which can launch the infra when needed. DB is global table so it will be available.

upvoted 2 times

😑 💄 **meowruki** 6 months, 2 weeks ago

Selected Answer: C

AWS CloudFormation Template: Use CloudFormation to define the infrastructure components (EC2 instances, load balancer, etc.) in a template. Thi allows for consistent and repeatable infrastructure deployment.

EC2 Instances and Load Balancer: Launch the EC2 instances and load balancer in the disaster recovery (DR) Region using the CloudFormation template. This enables the deployment of the application in the DR Region when needed.

DynamoDB Global Table: Configure the DynamoDB table as a global table. DynamoDB Global Tables provide automatic multi-region, multi-master replication, ensuring that the data is available in both the primary and DR Regions.

DNS Failover: Configure DNS failover to point to the new DR Region's load balancer. This allows for seamless failover of traffic to the DR Region when needed.

Option A is close, but it introduces an Auto Scaling group in the disaster recovery Region, which might introduce unnecessary complexity and potential scaling delays. Option D introduces a Lambda function triggered by CloudWatch alarms, which might add latency and complexity compared to the more direct approach in Option C.

upvoted 1 times

😑 💄 bogobob 6 months, 4 weeks ago

Selected Answer: A

Assuming theyre using Route53 as a DNS then A https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/dns-failover.html upvoted 1 times

😑 🌲 EEK2k 7 months ago

Selected Answer: C

Only B and C take care of EC2 instants. But since B does not take care of Data in the Dynamo DB, C is the only correct Answer. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

Route 53 haves a feature DNS failover when instances down upvoted 1 times

😑 🌲 thanhnv142 7 months, 3 weeks ago

C is the best choice here upvoted 1 times

😑 🌲 Wayne23Fang 7 months, 3 weeks ago

Selected Answer: C

I think CloudFormation is easier than manual provision of Auto Scaling group and load balancer in DR region. upvoted 2 times

😑 🏝 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

Creating Auto Scaling group and load balancer in DR region allows fast launch of capacity when needed. Configuring DynamoDB as a global table provides continuous data replication. Using DNS failover via Route 53 to point to the DR region's load balancer enables rapid traffic shifting. upvoted 2 times

😑 💄 Wablo 11 months, 4 weeks ago

Both Option A and Option D include the necessary steps of setting up an Auto Scaling group and load balancer in the disaster recovery Region, configuring the DynamoDB table as a global table, and updating DNS records. However, Option D provides a more detailed approach by explicitly mentioning the use of an Amazon CloudWatch alarm and AWS Lambda function to automate the DNS update process.

By leveraging an Amazon CloudWatch alarm, Option D allows for an automated failover mechanism. When triggered, the CloudWatch alarm can execute an AWS Lambda function, which in turn can update the DNS records in Amazon Route 53 to redirect traffic to the disaster recovery load balancer in the new Region. This automation helps reduce the potential for human error and further minimizes downtime. Answer is D

upvoted 2 times

😑 🌲 Kp88 10 months, 2 weeks ago

Failover policy takes care of DNS record update so no need for cloud watch/lambda upvoted 1 times

😑 📥 TariqKipkemei 1 year ago

Selected Answer: C

The company wants to ensure the application 'CAN' be made available in another AWS Region with minimal downtime. Meaning they want to be able to launch infra on need basis.

Best answer is C.

upvoted 2 times

😑 💄 Wablo 11 months, 4 weeks ago

D

upvoted 1 times

😑 🏝 dajform 11 months, 3 weeks ago

B, C are not OK because "launching resources when needed", which will increase the time to recover "DR" upvoted 1 times

E AshishRocks 1 year ago

I feel it is A

Configure DNS failover: Use DNS failover to point the application's DNS record to the load balancer in the disaster recovery Region. DNS failover allows you to route traffic to the disaster recovery Region in case of a failure in the primary Region. upvoted 2 times

😑 🌲 Wablo 11 months, 4 weeks ago

Once you configure manually the DNS, its no more automated like Lambda does. upvoted 1 times

😑 🌲 Yadav_Sanjay 1 year ago

Selected Answer: C

C suits best upvoted 3 times

😑 💄 hiroohiroo 1 year ago

Selected Answer: A) AがDNS フェイルオーバー upvoted 1 times

😑 🌲 cloudenthusiast 1 year ago

А

By configuring the DynamoDB table as a global table, you can replicate the table data across multiple AWS Regions, including the primary Region and the disaster recovery Region. This ensures that data is available in both Regions and can be seamlessly accessed during a failover event. upvoted 1 times

A company needs to migrate a MySQL database from its on-premises data center to AWS within 2 weeks. The database is 20 TB in size. The company wants to complete the migration with minimal downtime.

Which solution will migrate the database MOST cost-effectively?

A. Order an AWS Snowball Edge Storage Optimized device. Use AWS Database Migration Service (AWS DMS) with AWS Schema Conversion Tool (AWS SCT) to migrate the database with replication of ongoing changes. Send the Snowball Edge device to AWS to finish the migration and continue the ongoing replication.

B. Order an AWS Snowmobile vehicle. Use AWS Database Migration Service (AWS DMS) with AWS Schema Conversion Tool (AWS SCT) to migrate the database with ongoing changes. Send the Snowmobile vehicle back to AWS to finish the migration and continue the ongoing replication.

C. Order an AWS Snowball Edge Compute Optimized with GPU device. Use AWS Database Migration Service (AWS DMS) with AWS Schema Conversion Tool (AWS SCT) to migrate the database with ongoing changes. Send the Snowball device to AWS to finish the migration and continue the ongoing replication

D. Order a 1 GB dedicated AWS Direct Connect connection to establish a connection with the data center. Use AWS Database Migration Service (AWS DMS) with AWS Schema Conversion Tool (AWS SCT) to migrate the database with replication of ongoing changes.

Correct Answer: D

Community vote distribution

A (84%)

D (16%)

😑 👗 nosense (Highly Voted 🖬) 1 year ago

Selected Answer: A

A) 300 first 10 days. 150 shipping D) 750 for 2 weeks upvoted 9 times

😑 🆀 Efren 1 year ago

Thanks, i was checking the speed more than price. Thanks for the clarification upvoted 2 times

😑 🛔 Goutham4981 (Highly Voted 🖬) 6 months, 3 weeks ago

Selected Answer: A

Direct Connect takes at least 1 month to setup - D is invalid

AWS Snowmobile is used for transferring large amounts of data (petabytes) from remote locations where establishing a connection to the cloud is impossible - B is invalid

AWS Snowball Edge Compute Optimized provides higher vCPU performance and lower storage as compared to Snowball storage optimized. As our need is solely data transfer, high vCPU performance is not required but high storage is - C is invalid

upvoted 6 times

😑 👗 zinabu (Most Recent 🕑) 1 month, 2 weeks ago

Selected Answer: A

But I didn't understand why we are using a schema conversion tool, because AWS have already a managed service engine for MySQL Db, (RDS for MySQL or Aurora for my SQL is on the table)

upvoted 3 times

😑 🌲 EEK2k 7 months ago

Selected Answer: D

To calculate the time it would take to transfer 20TB of data over a 1 GB dedicated AWS Direct Connect, we can use the formula:

time = data size / data transfer rate

Here, the data size is 20TB, which is equivalent to 20,000 GB or 20,000,000 MB. The data transfer rate is 1 GB/s.

Converting the data size to MB, we get:

```
20,000,000 MB / 1 GB/s = 20,000 seconds
```

Therefore, it would take approximately 20,000 seconds or 5.56 hours to transfer 20TB of data over a 1 GB dedicated AWS Direct Connect. upvoted 3 times

😑 🌡 Murtadhaceit 6 months ago

It takes more way more than 2 weeks to setup Direct Connect. Therefore, D is not valid since we have to do the transfer within 2 weeks. upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

C is wrong, GPU is not needed upvoted 3 times

😑 👗 Ramdi1 8 months, 1 week ago

Selected Answer: A

Has to be A. the option for D would only work if they said they have like 6 Months plus. It would take too long to set up. upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

I agreed with A.

Why not D.?

When you initiate the process by requesting an AWS Direct Connect connection, it typically starts with the AWS Direct Connect provider. This provider may need to coordinate with AWS to allocate the necessary resources. This initial setup phase can take anywhere from a few days to a couple of weeks.

Couple of weeks? No Good

upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

When you create a Snowball job in the AWS console, it will estimate the delivery date based on your location. Being near a facility shows 1-2 day estimated delivery.

For extremely urgent requests, you can contact AWS Support and inquire about expedited Snowball delivery. If inventory is available, they may be able to ship same day or next day.

upvoted 2 times

😑 🌲 james2033 10 months, 3 weeks ago

Selected Answer: A

Keyword "20 TB", choose "AWS Snowball", there are A or C. C has word "GPU" what is not related, therefore choose A. upvoted 2 times

🖃 👗 Zox42 11 months, 1 week ago

Selected Answer: A

Answer A upvoted 1 times

😑 🌲 MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: D

D is correct upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

No, takes months, not weeks upvoted 1 times

😑 🌲 DrWatson 1 year ago

Selected Answer: A

https://docs.aws.amazon.com/dms/latest/userguide/CHAP_LargeDBs.Process.html upvoted 1 times

😑 🌡 RoroJ 1 year ago

Selected Answer: A

D Direct Connection will need a long time to setup plus need to deal with Network and Security changes with existing environment. Ad then plus the Data trans time... No way can be done in 2 weeks. upvoted 4 times

😑 📥 Joselucho38 1 year ago

Selected Answer: D

Overall, option D combines the reliability and cost-effectiveness of AWS Direct Connect, AWS DMS, and AWS SCT to migrate the database efficiently and minimize downtime.

upvoted 2 times

😑 👗 Abhineet9148232 1 year ago

Selected Answer: A

D - Direct Connect takes atleast a month to setup! Requirement is for within 2 weeks. upvoted 4 times

😑 💄 Rob1L 1 year ago

Selected Answer: D

AWS Snowball Edge Storage Optimized device is used for large-scale data transfers, but the lead time for delivery, data transfer, and return shipping would likely exceed the 2-week time frame. Also, ongoing database changes wouldn't be replicated while the device is in transit. upvoted 1 times

😑 🛔 Rob1L 1 year ago

Change to A because "Most cost effective" upvoted 2 times

😑 🌡 hiroohiroo 1 year ago

Selected Answer: A

https://docs.aws.amazon.com/ja_jp/snowball/latest/developer-guide/device-differences.html#device-options Aです。 upvoted 3 times

😑 💄 norris81 1 year ago

Selected Answer: A

How long does direct connect take to provision ? upvoted 2 times

😑 💄 examtopictempacc 1 year ago

At least one month and expensive. upvoted 1 times

A company moved its on-premises PostgreSQL database to an Amazon RDS for PostgreSQL DB instance. The company successfully launched a new product. The workload on the database has increased. The company wants to accommodate the larger workload without adding infrastructure.

Which solution will meet these requirements MOST cost-effectively?

A. Buy reserved DB instances for the total workload. Make the Amazon RDS for PostgreSQL DB instance larger.

- B. Make the Amazon RDS for PostgreSQL DB instance a Multi-AZ DB instance.
- C. Buy reserved DB instances for the total workload. Add another Amazon RDS for PostgreSQL DB instance.
- D. Make the Amazon RDS for PostgreSQL DB instance an on-demand DB instance.

С	orrect Answer: A
	Community vote distribution A (85%) Other
E	 elmogy Highly Voted 1 year ago Selected Answer: A A. "without adding infrastructure" means scaling vertically and choosing larger instance. "MOST cost-effectively" reserved instances upvoted 14 times
	wsdasdasdqwdaw 7 months, 3 weeks ago "MOST cost-effectively" doesn't mean reserved instances. Only in this case it is but not in general. upvoted 4 times
E	 awsgeek75 Most Recent ③ 5 months ago Selected Answer: A accommodate the larger workload without adding infrastructure. = Reserved DB instance upvoted 2 times
	awsgeek75 5 months ago + make the instance larger so most cost effective is to reserve a large instance suitable for workload which is A

+ make the instance larger so most cost effective is to reserve a large instance suitable for workload which is A upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: A

- B Multi-AZ is for HA, does not help 'accommodating the larger workload'
- C Adding "another instance" will not help, we can't split the workload between two instances
- D On-demand instance is a good choice for unknown workload, but here we know the workload, it's just higher than before upvoted 2 times

😑 💄 Goutham4981 6 months, 3 weeks ago

Selected Answer: A

Cannot add more infrastructure - C is invalid

Multi AZ DB instance is for high availability and failure mitigation, does not increase performance, higher workload support - B is invalid

On demand instances are costlier than Reserved instances - D is invalid upvoted 1 times

😑 🌲 **bogobob** 6 months, 4 weeks ago

Selected Answer: D

Not A : "launched a new product", reserved instances are for known workloads, a new product doesn't have known workload. Not B : "accommodate the larger workload", while Multi-AZ can help with larger workloads, they are more for higher availability. Not C : "without adding infrastructure", adding a PostGresQL instance is new infrastructure. upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Question says nothing about unknown load. New product -> more total products -> load has increased. upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

B is the best approach in this scenario overall:

Making the RDS PostgreSQL instance Multi-AZ adds a standby replica to handle larger workloads and provides high availability. Even though it adds infrastructure, the cost is less than doubling the infrastructure with a separate DB instance. It provides better performance, availability, and disaster recovery than a single larger instance. upvoted 2 times

😑 💄 BillyBlunts 8 months, 2 weeks ago

Agreed the answer is B

Multi-AZ deployments are cost-effective because they leverage the standby instance without incurring additional charges. You only pay for the primary instance's regular usage costs.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Multi-AZ is for HA, does not add performance. Meaning, will not help 'accommodating the larger workload'. upvoted 1 times

😑 💄 james2033 10 months, 3 weeks ago

Selected Answer: A

Buy larger instance. upvoted 1 times

😑 🌲 james2033 11 months ago

Selected Answer: A

Keyword "Amazon RDS for PostgreSQL instance large". See list of size of instance at https://aws.amazon.com/rds/instance-types/ upvoted 1 times

😑 📥 examtopictempacc 1 year ago

Selected Answer: A

Α.

Not C: without adding infrastructure upvoted 2 times

😑 💄 EA100 1 year ago

Answer - C

Option B, making the Amazon RDS for PostgreSQL DB instance a Multi-AZ DB instance, would provide high availability and fault tolerance but may not directly address the need for increased capacity to handle the larger workload.

Therefore, the recommended solution is Option C: Buy reserved DB instances for the workload and add another Amazon RDS for PostgreSQL DB instance to accommodate the increased workload in a cost-effective manner. upvoted 1 times

😑 🌲 cloudenthusiast 1 year ago

С

Option C: buying reserved DB instances for the total workload and adding another Amazon RDS for PostgreSQL DB instance seems to be the most appropriate choice. It allows for workload distribution across multiple instances, providing scalability and potential performance improvements. Additionally, reserved instances can provide cost savings in the long term.

upvoted 1 times

😑 上 nosense 1 year ago

A for me, because without adding additional infrastructure upvoted 3 times

😑 💄 th3k33n 1 year ago

Should be C upvoted 1 times

😑 🌲 Efren 1 year ago

That would add more infraestructure. A would increase the size, keeping the number of instances, i think upvoted 1 times

😑 🌲 cloudenthusiast 1 year ago

Option A involves making the existing Amazon RDS for PostgreSQL DB instance larger. While this can improve performance, it may not be sufficient to handle a significantly increased workload. It also doesn't distribute the workload or provide scalability. upvoted 1 times

😑 🌲 nosense 1 year ago

The main not HA, cost-effectively and without adding infrastructure upvoted 1 times

😑 🌲 omoakin 1 year ago

A is the best

upvoted 1 times

A company operates an ecommerce website on Amazon EC2 instances behind an Application Load Balancer (ALB) in an Auto Scaling group. The site is experiencing performance issues related to a high request rate from illegitimate external systems with changing IP addresses. The security team is worried about potential DDoS attacks against the website. The company must block the illegitimate incoming requests in a way that has a minimal impact on legitimate users.

What should a solutions architect recommend?

- A. Deploy Amazon Inspector and associate it with the ALB.
- B. Deploy AWS WAF, associate it with the ALB, and configure a rate-limiting rule.
- C. Deploy rules to the network ACLs associated with the ALB to block the incomingtraffic.
- D. Deploy Amazon GuardDuty and enable rate-limiting protection when configuring GuardDuty.

Correct Answer: B

Community vote distribution

3%

😑 👗 samehpalass (Highly Voted 🐽) 11 months, 3 weeks ago

B (95%)

Selected Answer: B

As no shield protect here so WAF rate limit upvoted 9 times

😑 💄 hydro143 8 months, 1 week ago

Where's your Shield Advanced now, in your hour of need he has abandoned you upvoted 8 times

😑 🌲 pentium75 (Highly Voted 🖬) 5 months, 1 week ago

Selected Answer: B

Best solution Shield Advanced, not listed here, thus second-best solution, WAF with rate limiting upvoted 5 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: B

A. Amazon Inspector = Software vulnerabilities like OS patches etc. Not fit for purpose.

- C. Changing IP from DDoS so don't know the incoming traffic for configuration (even if it was possible)
- D. GardDuty is for workload and AWS account monitoring so it can't help with DDoS.

B is correct as AWS WAF + ALB can configure rate limiting even if source IP changes. upvoted 4 times

😑 💄 jAtlas7 5 months, 2 weeks ago

Selected Answer: B

according to some google searches... to protect against DDOS attack:

- * AWS WAF(Web Application Firewall) provides protection on the application layer (I think Application Load Balancer belongs to this level)
- * AWS Shield protects the infrastructure layers of the OSI mode (I think AWS Network Load Balancer belongs to this level) upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

This case is A

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Inspector is for detecting vulnerabilities, has nothing to do with the requirement. upvoted 1 times

😑 🌲 james2033 10 months, 3 weeks ago

Selected Answer: B

AWS Web Application Firewall (WAF) + ALB (Application Load Balancer) See image at https://aws.amazon.com/waf/ . https://docs.aws.amazon.com/waf/latest/developerguide/ddos-responding.html .

Question keyword "high request rate", answer keyword "rate-limiting rule" https://docs.aws.amazon.com/waf/latest/developerguide/waf-rate-based-example-limit-login-page-keys.html

Amazon GuardDuty for theat detection https://aws.amazon.com/guardduty/ , not for DDoS. upvoted 2 times

E **LariqKipkemei** 12 months ago

Selected Answer: B

B in swahili 'ba' :) external systems, incoming requests = AWS WAF upvoted 1 times

🖃 🌡 Axeashes 12 months ago

Selected Answer: B

layer 7 DDoS protection with WAF https://docs.aws.amazon.com/waf/latest/developerguide/ddos-get-started-web-acl-rbr.html upvoted 1 times

😑 🌲 antropaws 1 year ago

Selected Answer: B

B no doubt. upvoted 1 times

Joselucho38 1 year ago

Selected Answer: B

AWS WAF (Web Application Firewall) is a service that provides protection for web applications against common web exploits. By associating AWS WAF with the Application Load Balancer (ALB), you can inspect incoming traffic and define rules to allow or block requests based on various criteria.

upvoted 4 times

😑 🌲 cloudenthusiast 1 year ago

В

AWS Web Application Firewall (WAF) is a service that helps protect web applications from common web exploits and provides advanced security features. By deploying AWS WAF and associating it with the ALB, the company can set up rules to filter and block incoming requests based on specific criteria, such as IP addresses.

In this scenario, the company is facing performance issues due to a high request rate from illegitimate external systems with changing IP addresse. By configuring a rate-limiting rule in AWS WAF, the company can restrict the number of requests coming from each IP address, preventing excessive traffic from overwhelming the website. This will help mitigate the impact of potential DDoS attacks and ensure that legitimate users can access the site without interruption. upvoted 4 times

😑 🌲 Efren 1 year ago

Selected Answer: B If not AWS Shield, then WAF upvoted 3 times

😑 💄 nosense 1 year ago

Selected Answer: B B obv for this

upvoted 3 times

😑 💄 Efren 1 year ago

My mind slipped with AWS Shield. GuardDuty can be working along with WAF for DDOS attack, but ultimately would be WAF

https://aws.amazon.com/blogs/security/how-to-use-amazon-guardduty-and-aws-web-application-firewall-to-automatically-block-suspicious-hosts/

upvoted 2 times

🖃 💄 Mia2009687 11 months ago

Same here, I was looking for AWS Shield upvoted 1 times

😑 💄 Efren 1 year ago

Selected Answer: D

D, Guard Duty for me upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Guard Duty detects threats, has nothing to do with rate-limiting. upvoted 1 times

A company wants to share accounting data with an external auditor. The data is stored in an Amazon RDS DB instance that resides in a private subnet. The auditor has its own AWS account and requires its own copy of the database.

What is the MOST secure way for the company to share the database with the auditor?

A. Create a read replica of the database. Configure IAM standard database authentication to grant the auditor access.

B. Export the database contents to text files. Store the files in an Amazon S3 bucket. Create a new IAM user for the auditor. Grant the user access to the S3 bucket.

C. Copy a snapshot of the database to an Amazon S3 bucket. Create an IAM user. Share the user's keys with the auditor to grant access to the object in the S3 bucket.

D. Create an encrypted snapshot of the database. Share the snapshot with the auditor. Allow access to the AWS Key Management Service (AWS KMS) encryption key.

Correct Answer: D

Community vote distribution

D (100%)

😑 👗 alexandercamachop (Highly Voted 🖬) 1 year ago

Selected Answer: D

The most secure way for the company to share the database with the auditor is option D: Create an encrypted snapshot of the database, share the snapshot with the auditor, and allow access to the AWS Key Management Service (AWS KMS) encryption key.

By creating an encrypted snapshot, the company ensures that the database data is protected at rest. Sharing the encrypted snapshot with the auditor allows them to have their own copy of the database securely.

In addition, granting access to the AWS KMS encryption key ensures that the auditor has the necessary permissions to decrypt and access the encrypted snapshot. This allows the auditor to restore the snapshot and access the data securely.

This approach provides both data protection and access control, ensuring that the database is securely shared with the auditor while maintaining the confidentiality and integrity of the data.

upvoted 17 times

😑 🌲 TariqKipkemei 12 months ago

best explanation ever upvoted 2 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_ShareSnapshot.html

With AWS RDS, you can share snapshots across accounts so no need to go through S3 or replication. Option D allows more secure way by using encryption and sharing encryption key. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: D

MOST secure way upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Key word: "Secure way"

The snapshot contents are encrypted using KMS keys for data security. Sharing the snapshot directly removes risks of extracting/transferring data. The auditor can restore the snapshot into their own RDS instance. Access is controlled through sharing the encrypted snapshot and KMS key. upvoted 3 times

😑 🏝 antropaws 1 year ago

Selected Answer: D

Most likely D. upvoted 3 times

😑 畠 cloudenthusiast 1 year ago

Option D (Creating an encrypted snapshot of the database, sharing the snapshot, and allowing access to the AWS Key Management Service encryption key) is generally considered a better option for sharing the database with the auditor in terms of security and control. upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: D D for me upvoted 2 times

A solutions architect configured a VPC that has a small range of IP addresses. The number of Amazon EC2 instances that are in the VPC is increasing, and there is an insufficient number of IP addresses for future workloads.

Which solution resolves this issue with the LEAST operational overhead?

A. Add an additional IPv4 CIDR block to increase the number of IP addresses and create additional subnets in the VPC. Create new resources in the new subnets by using the new CIDR.

B. Create a second VPC with additional subnets. Use a peering connection to connect the second VPC with the first VPC Update the routes and create new resources in the subnets of the second VPC.

C. Use AWS Transit Gateway to add a transit gateway and connect a second VPC with the first VPUpdate the routes of the transit gateway and VPCs. Create new resources in the subnets of the second VPC.

D. Create a second VPC. Create a Site-to-Site VPN connection between the first VPC and the second VPC by using a VPN-hosted solution on Amazon EC2 and a virtual private gateway. Update the route between VPCs to the traffic through the VPN. Create new resources in the subnets of the second VPC.

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 antropaws (Highly Voted 🖬) 1 year ago

Selected Answer: A

A is correct: You assign a single CIDR IP address range as the primary CIDR block when you create a VPC and can add up to four secondary CIDR blocks after creation of the VPC.

upvoted 6 times

E & f2e2419 (Most Recent 2) 5 months ago

Selected Answer: A best option upvoted 2 times

😑 🏝 awsgeek75 5 months ago

Selected Answer: A

A: LEAST operational overhead is by creating a new CIDR block in existing VPC. All other options require additional overhead of gateway or second VPC upvoted 3 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: A

After you've created your VPC, you can associate additional IPv4 CIDR blocks with the VPC upvoted 2 times

😑 🏝 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

the architect just needs to:

Add the CIDR using the AWS console or CLI Create new subnets in the VPC using the new CIDR Launch resources in the new subnets upvoted 4 times

😑 🌲 TariqKipkemei 12 months ago

Selected Answer: A

A is best upvoted 2 times

😑 💄 Yadav_Sanjay 1 year ago

Selected Answer: A

Add additional CIDR of bigger range upvoted 2 times

😑 🌡 Efren 1 year ago

Selected Answer: A

Add new bigger subnets upvoted 2 times

😑 🌲 nosense 1 year ago

Selected Answer: A

A valid upvoted 1 times

Question #440

A company used an Amazon RDS for MySQL DB instance during application testing. Before terminating the DB instance at the end of the test cycle, a solutions architect created two backups. The solutions architect created the first backup by using the mysqldump utility to create a database dump. The solutions architect created the second backup by enabling the final DB snapshot option on RDS termination.

The company is now planning for a new test cycle and wants to create a new DB instance from the most recent backup. The company has chosen a MySQL-compatible edition of Amazon Aurora to host the DB instance.

Which solutions will create the new DB instance? (Choose two.)

- A. Import the RDS snapshot directly into Aurora.
- B. Upload the RDS snapshot to Amazon S3. Then import the RDS snapshot into Aurora.
- C. Upload the database dump to Amazon S3. Then import the database dump into Aurora.
- D. Use AWS Database Migration Service (AWS DMS) to import the RDS snapshot into Aurora.
- E. Upload the database dump to Amazon S3. Then use AWS Database Migration Service (AWS DMS) to import the database dump into Aurora.

Correct Answer: AD

Community vote distribution

AC (81%)

Other

😑 💄 Axaus (Highly Voted 🖬) 1 year ago

Selected Answer: AC

A,C

- A because the snapshot is already stored in AWS.
- C because you dont need a migration tool going from MySQL to MySQL. You would use the MySQL utility. upvoted 10 times

😑 👗 oras2023 (Highly Voted 🖬) 1 year ago

Selected Answer: AC

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Migrating.RDSMySQL.Import.html upvoted 6 times

JackyCCK [Most Recent ②] 2 months ago

If you can use option A - "Import the RDS snapshot directly into Aurora", why go S3 in option C? Non sense, A and C cannot co-exist upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: AC

A per https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Migrating.RDSMySQL.Snapshot.html

C per https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Migrating.ExtMySQL.html upvoted 4 times

😑 👗 aws94 6 months ago

Selected Answer: AB

A and B

upvoted 1 times

🖃 🌡 meowruki 6 months, 2 weeks ago

Selected Answer: AC

Similar : https://repost.aws/knowledge-center/aurora-postgresgl-migrate-from-rds upvoted 2 times

😑 🌡 potomac 7 months, 1 week ago

Selected Answer: AD

A and C

upvoted 1 times

😑 💄 TariqKipkemei 7 months, 2 weeks ago

Selected Answer: AC

Either import the RDS snapshot directly into Aurora or upload the database dump to Amazon S3, then import the database dump into Aurora.

upvoted 2 times

😑 💄 thanhnv142 7 months, 3 weeks ago

AC:

- store dump in s3 then upload to aurora
- no need to store snapshot in s3 because is in AWS already

upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: CE

C and E are the solutions that can restore the backups into Amazon Aurora.

The RDS DB snapshot contains backup data in a proprietary format that cannot be directly imported into Aurora. The mysqldump database dump contains SQL statements that can be imported into Aurora after uploading to S3. AWS DMS can migrate the dump file from S3 into Aurora.

upvoted 2 times

😑 💄 james2033 11 months ago

Selected Answer: AC

Amazon RDS for MySQL --> Amazon Aurora MySQL-compatible.

* mysqldump, database dump --> (C) Upload to Amazon S3, Import dump to Aurora.

* DB snapshot --> (A) Import RDS Snapshot directly Aurora. The correct word should be "migration". "Use console to migrate the DB snapshot anc create an Aurora MySQL DB cluster with the same databases as the original MySQL DB instance."

Exclude B, because no need upload DB snapshot to Amazon S3. Exclude D, because no need Migration service. Exclude E, because no need Migration service. Use exclusion method is more easy for this question.

Related links:

- Amazon RDS create database snapshot https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateSnapshot.html
- https://aws.amazon.com/rds/aurora/

upvoted 2 times

😑 🌲 marufxplorer 12 months ago

CE

Since the backup created by the solutions architect was a database dump using the mysqldump utility, it cannot be directly imported into Aurora using RDS snapshots. Amazon Aurora has its own specific backup format that is different from RDS snapshots upvoted 3 times

😑 🖀 Guru4Cloud 9 months, 3 weeks ago

C and E are the solutions that can restore the backups into Amazon Aurora.

The RDS DB snapshot contains backup data in a proprietary format that cannot be directly imported into Aurora. The mysqldump database dump contains SQL statements that can be imported into Aurora after uploading to S3. AWS DMS can migrate the dump file from S3 into Aurora. upvoted 2 times

😑 🏝 antropaws 1 year ago

Selected Answer: AC

Migrating data from MySQL by using an Amazon S3 bucket

You can copy the full and incremental backup files from your source MySQL version 5.7 database to an Amazon S3 bucket, and then restore an Amazon Aurora MySQL DB cluster from those files.

This option can be considerably faster than migrating data using mysqldump, because using mysqldump replays all of the commands to recreate the schema and data from your source database in your new Aurora MySQL DB cluster.

By copying your source MySQL data files, Aurora MySQL can immediately use those files as the data for an Aurora MySQL DB cluster.

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Migrating.ExtMySQL.html upvoted 3 times

😑 💄 omoakin 1 year ago

BE

Upload the RDS snapshot to Amazon S3. Then import the RDS snapshot into Aurora. Upload the database dump to Amazon S3. Then use AWS Database Migration Service (AWS DMS) to import the database dump into Aurora upvoted 1 times

😑 💄 Efren 1 year ago

Selected Answer: BC

Id say B and C

You can create a dump of your data using the mysqldump utility, and then import that data into an existing Amazon Aurora MySQL DB cluster.

c>- Because Amazon Aurora MySQL is a MySQL-compatible database, you can use the mysqldump utility to copy data from your MySQL or MariaDB database to an existing Amazon Aurora MySQL DB cluster.

B.- You can copy the source files from your source MySQL version 5.5, 5.6, or 5.7 database to an Amazon S3 bucket, and then restore an Amazon Aurora MySQL DB cluster from those files.

upvoted 2 times

😑 👗 nosense 1 year ago

Selected Answer: BE

Rds required upload to s3 upvoted 1 times

😑 💄 nosense 1 year ago

If too be honestly can't decide between be and bc... upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

using the mysqldump database dump provide valid solutions to restore into Aurora. Options A, B, and D using the RDS snapshot cannot directly restore into Aurora.

upvoted 1 times

😑 🛔 nosense 1 year ago

in the end, apparently the A and C.
a) because it creates a new DB
b) no sense to load in s3. can directly
c) yes, creates a new inst
d and e migration
upvoted 1 times

A company hosts a multi-tier web application on Amazon Linux Amazon EC2 instances behind an Application Load Balancer. The instances run in an Auto Scaling group across multiple Availability Zones. The company observes that the Auto Scaling group launches more On-Demand Instances when the application's end users access high volumes of static web content. The company wants to optimize cost.

What should a solutions architect do to redesign the application MOST cost-effectively?

A. Update the Auto Scaling group to use Reserved Instances instead of On-Demand Instances.

B. Update the Auto Scaling group to scale by launching Spot Instances instead of On-Demand Instances.

C. Create an Amazon CloudFront distribution to host the static web contents from an Amazon S3 bucket.

D. Create an AWS Lambda function behind an Amazon API Gateway API to host the static website contents.

Correct Answer: C

Community vote distribution

C (100%)

😑 🏝 awsgeek75 5 months ago

Selected Answer: C

C: Cost effective static content scaling = CloudFront A and B scale instances so not the best use of money for static content D Probably most expensive way of service static content at scale as you'll be charged for Lambda execution also upvoted 3 times

😑 🌲 mwwt2022 5 months ago

Selected Answer: C

static content -> CloudFront upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

implementing CloudFront to serve static content is the most cost-optimal architectural change for this use case. upvoted 3 times

😑 🌲 james2033 11 months ago

Selected Answer: C

Keyword "Amazon CloudFront", "high volumes of static web content", choose C. upvoted 2 times

😑 💄 TariqKipkemei 12 months ago

Selected Answer: C

static web content = Amazon CloudFront
upvoted 1 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: C

Static Web Content = S3 Always. CloudFront = Closer to the users locations since it will cache in the Edge nodes. upvoted 2 times

😑 💄 cloudenthusiast 1 year ago

By leveraging Amazon CloudFront, you can cache and serve the static web content from edge locations worldwide, reducing the load on your EC2 instances. This can help lower the number of On-Demand Instances required to handle high volumes of static web content requests. Storing the static content in an Amazon S3 bucket and using CloudFront as a content delivery network (CDN) improves performance and reduces costs by reducing the load on your EC2 instances.

upvoted 3 times

😑 💄 Efren 1 year ago

Selected Answer: C

Static content, cloudFront plus S3 upvoted 2 times

😑 🌡 nosense 1 year ago

Selected Answer: C

Question #442

A company stores several petabytes of data across multiple AWS accounts. The company uses AWS Lake Formation to manage its data lake. The company's data science team wants to securely share selective data from its accounts with the company's engineering team for analytical purposes.

Which solution will meet these requirements with the LEAST operational overhead?

A. Copy the required data to a common account. Create an IAM access role in that account. Grant access by specifying a permission policy that includes users from the engineering team accounts as trusted entities.

B. Use the Lake Formation permissions Grant command in each account where the data is stored to allow the required engineering team users to access the data.

C. Use AWS Data Exchange to privately publish the required data to the required engineering team accounts.

D. Use Lake Formation tag-based access control to authorize and grant cross-account permissions for the required data to the engineering team accounts.

Correct Answer: D

Community vote distribution

D (100%)

😑 🌲 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: D

By utilizing Lake Formation's tag-based access control, you can define tags and tag-based policies to grant selective access to the required data fo the engineering team accounts. This approach allows you to control access at a granular level without the need to copy or move the data to a common account or manage permissions individually in each account. It provides a centralized and scalable solution for securely sharing data across accounts with minimal operational overhead.

upvoted 15 times

😑 👗 NSA_Poker [Most Recent 🕗] 1 week, 3 days ago

Selected Answer: D

(B) uses the CLI command that has many options: principal, TableName, ColumnNames, LFTag etc providing a way to manage granular access permissions for different users at the table and column level. That way you don't give full access to the all the data. The problem with (B) is to implement this in each account has a lot more operational overhead than (D).

upvoted 1 times

😑 L awsgeek75 5 months ago

Selected Answer: D

D: Selective data = tagging

A and B gives full access to all the data

C is possible but with complex operational overhead as you have to publish your data to the Data Exchange. (this is based on my limited knowledge so happy to be corrected)

upvoted 3 times

Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

D is the correct option with the least operational overhead.

Using Lake Formation tag-based access control allows granting cross-account permissions to access data in other accounts based on tags, without having to copy data or configure individual permissions in each account.

This provides a centralized, tag-based way to share selective data across accounts to authorized users with least operational overhead. upvoted 2 times

😑 📥 luisgu 1 year ago

Selected Answer: D

https://aws.amazon.com/blogs/big-data/securely-share-your-data-across-aws-accounts-using-aws-lake-formation/ upvoted 3 times

A company wants to host a scalable web application on AWS. The application will be accessed by users from different geographic regions of the world. Application users will be able to download and upload unique data up to gigabytes in size. The development team wants a cost-effective solution to minimize upload and download latency and maximize performance.

What should a solutions architect do to accomplish this?

A. Use Amazon S3 with Transfer Acceleration to host the application.

B. Use Amazon S3 with CacheControl headers to host the application.

C. Use Amazon EC2 with Auto Scaling and Amazon CloudFront to host the application.

D. Use Amazon EC2 with Auto Scaling and Amazon ElastiCache to host the application.

Correct Answer: A			
Community vote distribution			
A (66%)	C (34%)		

😑 🌲 pentium75 (Highly Voted 🐽 5 months, 1 week ago

Selected Answer: A

The question asks for "a cost-effective solution [ONLY TO] to minimize upload and download latency and maximize performance", not for the actual application. And the 'cost-effective solution to minimize upload and download latency and maximize performance' is S3 Transfer Acceleration. Obviously there is more required to host the app, but that is not asked for. upvoted 8 times

😑 👗 chris0975 (Highly Voted 🖬) 7 months, 3 weeks ago

Selected Answer: A

The question is focused on large downloads and uploads. S3 Transfer Acceleration is what fits. CloudFront is for caching which cannot be used when the data is unique. They aren't as concerned with regular web traffic.

Amazon S3 Transfer Acceleration can speed up content transfers to and from Amazon S3 by as much as 50-500% for long-distance transfer of larger objects.

upvoted 5 times

😑 👗 awsgeek75 (Most Recent 🕐) 5 months ago

Selected Answer: A

Not C, D No requirements to scale the application itself so EC2 is not applicable.

B is for caching so not sure how/if that helps the upload speed for global users

A is correct as Transfer Accelerator is best for uploading and downloading unique items near the user's region/location upvoted 4 times

😑 💄 tosuccess 5 months, 1 week ago

Selected Answer: A

for datas greater tham 1 GB, s3 transfer acceleration is the best upvoted 2 times

😑 🌲 Cyberkayu 5 months, 3 weeks ago

Selected Answer: A

Application users will be able to download and upload UNIQUE data up to gigabytes in size

Thus all caching related solution dont work. upvoted 3 times

😑 🌲 Goutham4981 6 months, 3 weeks ago

Selected Answer: A

Downloading data upto gigabytes in size - Cloudfront is a content delivery service that acts as an edge caching layer for images and other data. Not a service that minimizes upload and download latency. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

The question is focused on large downloads and uploads. S3 Transfer Acceleration is what fits. CloudFront is for caching which cannot be used when the data is unique. They aren't as concerned with regular web traffic.

C didn't mention S3. Where the data is stored?

upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

A doesn't mention EC2 or EKS or ECS or Elastic Beanstalk or Lambda. Where does the "scalable web application" run? upvoted 1 times

😑 💄 beast2091 7 months, 1 week ago

It is A.

https://docs.aws.amazon.com/AmazonS3/latest/userguide/transfer-acceleration.html upvoted 1 times

😑 💄 danielmakita 7 months, 2 weeks ago

It is A as the Transfer Acceleration will minimize upload and download latency.

If you choose C, where would the files be stored? There is no mention of any S3. Will it be stored inside the EC2? That's why I didn't go for C upvoted 5 times

😑 💄 Sindokuhlep 7 months, 2 weeks ago

Selected Answer: C

Amazon S3 with Transfer Acceleration (option A) is designed for speeding up uploads to Amazon S3, and it's not used for hosting scalable web applications. It doesn't mention using EC2 instances for hosting the application. upvoted 3 times

😑 💄 canonlycontainletters1 7 months, 2 weeks ago

Selected Answer: C

My answer is C upvoted 1 times

😑 💄 thanhnv142 7 months, 3 weeks ago

C because A is for upload data to S3, not for web app upvoted 1 times

😑 🎩 DamyanG 8 months ago

Selected Answer: C

The correct answer is C!!! It is not A, because

- Amazon S3 with Transfer Acceleration (option A) is designed for speeding up uploads to Amazon S3, and it's not used for hosting scalable web applications. It doesn't mention using EC2 instances for hosting the application.

upvoted 3 times

E & Victory007 8 months, 1 week ago

Selected Answer: C

Amazon CloudFront is a global content delivery network (CDN) that delivers web content to users with low latency and high transfer speeds. It does this by caching content at edge locations around the world, which are closer to the users than the origin server.

By using Amazon EC2 with Auto Scaling and Amazon CloudFront, the company can create a scalable and high-performance web application that is accessible to users from different geographic regions of the world.

upvoted 1 times

😑 🆀 Ramdi1 8 months, 1 week ago

Selected Answer: A

I believe it would be A - my thinking maybe wrong but im just thinking specifically about the S3 put allows upto 5gb not sure about cloudfront. Second way of thinking is that cached content on edge locations but would it not have to go to source still to retrieve if another person wants to download that content in a different part of the world?

upvoted 2 times

😑 💄 bsbs1234 8 months, 2 weeks ago

C,

1. Cloudfront cache data at edge, which provide better performance for read. Global Accelerator will always goto origin for content.

2. Cloudfront can also help performance for dynamic content, which is good for Web app upvoted 1 times

😑 🌲 Ramdi1 8 months, 2 weeks ago

Selected Answer: C

I think C is correct the question mentions geographic locations and cloudfront had 500 + edge locations. Gigabytes in size - s3 has a max limit of a 5gb put - even though the question does not say 5gb or less just something to think about and s3 cant hold dynamic content upvoted 2 times

A company has hired a solutions architect to design a reliable architecture for its application. The application consists of one Amazon RDS DB instance and two manually provisioned Amazon EC2 instances that run web servers. The EC2 instances are located in a single Availability Zone.

An employee recently deleted the DB instance, and the application was unavailable for 24 hours as a result. The company is concerned with the overall reliability of its environment.

What should the solutions architect do to maximize reliability of the application's infrastructure?

A. Delete one EC2 instance and enable termination protection on the other EC2 instance. Update the DB instance to be Multi-AZ, and enable deletion protection.

B. Update the DB instance to be Multi-AZ, and enable deletion protection. Place the EC2 instances behind an Application Load Balancer, and run them in an EC2 Auto Scaling group across multiple Availability Zones.

C. Create an additional DB instance along with an Amazon API Gateway and an AWS Lambda function. Configure the application to invoke the Lambda function through API Gateway. Have the Lambda function write the data to the two DB instances.

D. Place the EC2 instances in an EC2 Auto Scaling group that has multiple subnets located in multiple Availability Zones. Use Spot Instances instead of On-Demand Instances. Set up Amazon CloudWatch alarms to monitor the health of the instances Update the DB instance to be Multi-AZ, and enable deletion protection.

Correct Answer: B

Community vote distribution

B (100%)

😑 🌡 wizcloudifa 1 month, 3 weeks ago

Selected Answer: B

- A: delete one instance, why?. Although takes care of reliability of DB instance however not EC2.
- B. seems perfect as takes care of reliability of both EC2 as well as DB
- C. DB instance's reliability is not taken care of
- D. seems to be trying to address cost alongside reliability of EC2 and DB.

upvoted 2 times

😑 🏝 awsgeek75 5 months ago

Selected Answer: B

A: Deleting one EC2 instance makes no sense. Why would you do that?

C: API Gateway, Lambda etc are all nice but they don't solve the problem of DB instance deletion

D: EC2 subnet blah blah, what? The problem is reliability, not networking!

B is correct as it solves the DB deletion issue and increases reliability by Multi AZ scaling of EC2 instances upvoted 4 times

😑 L awsgeek75 5 months ago

Option E: Sack the employee who did this :) upvoted 4 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

The key points:

- ° RDS Multi-AZ and deletion protection provide high availability for the database.
- ° The load balancer and Auto Scaling group across AZs give high availability for EC2.
- ° Options A, C, D have limitations that would reduce reliability vs option B. upvoted 2 times

🖃 🌡 TariqKipkemei 12 months ago

Selected Answer: B

Update the DB instance to be Multi-AZ, and enable deletion protection. Place the EC2 instances behind an Application Load Balancer, and run them in an EC2 Auto Scaling group across multiple Availability Zones upvoted 1 times

😑 🎩 antropaws 1 year ago

Selected Answer: B

B for sure.

upvoted 1 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: B

It is the only one with High Availability. Amazon RDS with Multi AZ EC2 with Auto Scaling Group in Multi Az upvoted 1 times

😑 🌡 omoakin 1 year ago

same question from https://www.examtopics.com/exams/amazon/aws-certified-solutions-architect-associate-saa-c02/ long time ago and still same option B upvoted 2 times

😑 🌡 nosense 1 year ago

Selected Answer: B

B is correct. HA ensured by DB in Mutli-AZ and EC2 in AG upvoted 4 times

A company is storing 700 terabytes of data on a large network-attached storage (NAS) system in its corporate data center. The company has a hybrid environment with a 10 Gbps AWS Direct Connect connection.

After an audit from a regulator, the company has 90 days to move the data to the cloud. The company needs to move the data efficiently and without disruption. The company still needs to be able to access and update the data during the transfer window.

Which solution will meet these requirements?

A. Create an AWS DataSync agent in the corporate data center. Create a data transfer task Start the transfer to an Amazon S3 bucket.

B. Back up the data to AWS Snowball Edge Storage Optimized devices. Ship the devices to an AWS data center. Mount a target Amazon S3 bucket on the on-premises file system.

C. Use rsync to copy the data directly from local storage to a designated Amazon S3 bucket over the Direct Connect connection.

D. Back up the data on tapes. Ship the tapes to an AWS data center. Mount a target Amazon S3 bucket on the on-premises file system.

Correct Answer: A

Community vote distribution

😑 🚢 wRhIH (Highly Voted 🖬 1 year ago

For those who wonders why not B. Snowball Edge Storage Optimized device for data transfer is up to 100TB https://docs.aws.amazon.com/snowball/latest/developer-guide/device-differences.html upvoted 10 times

😑 👗 Maru86 2 months, 3 weeks ago

The question explicitly mentioned "devices", also Snowball Edge Storage Optimized is 80TB HDD. So it is possible, but the answer is A because we can transfer with DataSync in 6.5 days.

upvoted 2 times

E **& smartegnine** 11 months, 3 weeks ago

A (100%)

10GBs * 24*60*60 =864,000 GB estimate around 864 TB a day, 2 days will transfer all data. But for snowball at least 4 days for delivery to the data center.

upvoted 1 times

😑 💄 siGma182 10 months, 4 weeks ago

This account is wrong but I get your point. It is wrong cause 10Gb/s is not the same as 10GB/s (Gigabits vs Gigabytes). However, the correct count is 864Tb/8 = 108TB per day. In one week you should've transferred all the data. upvoted 8 times

😑 🌲 Maru86 2 months, 3 weeks ago

That's right, 1 GB = 8 Gb. Essentially we have a speed of 1.25 GB/s. upvoted 1 times

😑 🛔 NSA_Poker (Most Recent 🕗) 1 week, 3 days ago

Selected Answer: A

(B) is incorrect bc although Mountpoint for S3 is possible for on-premises NAS, this is not as efficient as AWS DataSync. Data updates made during the transfer window would have to be resolved later.

upvoted 1 times

😑 🌲 Burrito69 2 months, 2 weeks ago

I will put simple calculation for oyu guys to just store in your head to quickly answer: for 10GBPS its 1.25GBPS becasue its bits to bytes. for one minute its 75GBPS for one hour its 4500 GBPS for one day its 10.8 TB

so you can calculate easily if you just store these numbers in your head. lets say if question is 1GBPS DirectConnect that meand everything above should be divide by 8. cool

upvoted 1 times

😑 💄 awsgeek75 5 months ago

Selected Answer: A

Critical requirement: "The company needs to move the data efficiently and without disruption."

B: Causes disruption

C: I don't think that is possible without a gateway kind of thing

D: Tape backups? " Mount a target Amazon S3 bucket on the on-premises file system"? This requires some gateway which is not mentioned

A is the answer as DataSync allows transfer without disruption and with 10Gbps, it can be done in 90 days. upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

AWS DataSync can efficiently transfer large datasets from on-premises NAS to Amazon S3 over Direct Connect.

DataSync allows accessing and updating the data continuously during the transfer process. upvoted 4 times

😑 💄 hsinchang 10 months, 3 weeks ago

Selected Answer: A

Access during the transfer window -> DataSync upvoted 4 times

😑 🌡 TariqKipkemei 12 months ago

Selected Answer: A

AWS DataSync is a secure, online service that automates and accelerates moving data between on premises and AWS Storage services. upvoted 2 times

😑 🏝 omoakin 1 year ago

А

https://www.examtopics.com/discussions/amazon/view/46492-exam-aws-certified-solutions-architect-associate-saac02/#:~:text=Exam%20question%20from,Question%20%23%3A%20385

upvoted 1 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: A

By leveraging AWS DataSync in combination with AWS Direct Connect, the company can efficiently and securely transfer its 700 terabytes of data t an Amazon S3 bucket without disruption. The solution allows continued access and updates to the data during the transfer window, ensuring business continuity throughout the migration process.

upvoted 3 times

😑 🌲 nosense 1 year ago

Selected Answer: A

A for me, bcs egde storage up to 100tb upvoted 4 times

A company stores data in PDF format in an Amazon S3 bucket. The company must follow a legal requirement to retain all new and existing data in Amazon S3 for 7 years.

Which solution will meet these requirements with the LEAST operational overhead?

A. Turn on the S3 Versioning feature for the S3 bucket. Configure S3 Lifecycle to delete the data after 7 years. Configure multi-factor authentication (MFA) delete for all S3 objects.

B. Turn on S3 Object Lock with governance retention mode for the S3 bucket. Set the retention period to expire after 7 years. Recopy all existing objects to bring the existing data into compliance.

C. Turn on S3 Object Lock with compliance retention mode for the S3 bucket. Set the retention period to expire after 7 years. Recopy all existing objects to bring the existing data into compliance.

D. Turn on S3 Object Lock with compliance retention mode for the S3 bucket. Set the retention period to expire after 7 years. Use S3 Batch Operations to bring the existing data into compliance.

Correct Answer: C	
Community vote distribution	
D (82%) Other	
Image: Second state of the second state of	
awsgeek75 4 months, 3 weeks ago Did you pass? upvoted 1 times	
 iapps369 Most Recent ② 5 months ago D as S3 batch operations reduce risk and manual copy/paste overhead. upvoted 3 times 	
 awsgeek75 5 months ago Selected Answer: D A: Versioning, not relevant B: Governance, it won't enforce object lock C: Recopy existing objects may work but lots of operational overhead (see link) D: Compliance on existing objects with batch operations is least operational overhead 	
https://repost.aws/questions/QUGKrl8XRLTEeuIzUHq0Ikew/s3-object-lock-on-existing-s3-objects upvoted 3 times	

awsgeek/5 5 months ago

With option C, you have to copy the object for it to be complaint and then delete the original as only the new copy will be compliant. So D is the only option upvoted 1 times

😑 🌲 mr123dd 5 months, 1 week ago

Selected Answer: A

To enable Object Lock on an Amazon S3 bucket, you must first enable versioning on that bucket. other 3 option did not enable versioning first upvoted 1 times

😑 🎍 fb4afde 6 months ago

Selected Answer: D

Recopying offers more control but requires users to manage the process. S3 Batch Operations automates the process at scale but with less granula control - LEAST operational overhead

upvoted 2 times

😑 🌡 moonster 7 months ago

Its C because you only need to recopy all existing objects one time, so why use S3 batch operations if new datas going to be in compliance retention mode? I can see why its C although my initial gut answer was D.

upvoted 2 times

E **pentium75** 5 months, 1 week ago

What if I don't have the original files anymore? Where should I copy them from? upvoted 2 times

😑 🌲 kwang312 9 months ago

You can only enable Object Lock for new buckets. If you want to turn on Object Lock for an existing bucket, contact AWS Support. upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

You need a token from AWS Support, but you CAN enable Object Lock for an existing bucket. upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Turn on S3 Object Lock with compliance retention mode for the S3 bucket. Set the retention period to expire after 7 years. Use S3 Batch Operation to bring the existing data into compliance.

upvoted 1 times

😑 💄 MrAWSAssociate 12 months ago

Selected Answer: D

To replicate existing object/data in S3 Bucket to bring them to compliance, optionally we use "S3 Batch Replication", so option D is the most appropriate, especially if we have big data in S3.

upvoted 1 times

😑 💄 TariqKipkemei 12 months ago

Selected Answer: D

For minimum ops D is best upvoted 1 times

😑 🌲 DrWatson 1 year ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonS3/latest/userguide/batch-ops-retention-date.html upvoted 4 times

😑 🏝 antropaws 1 year ago

Selected Answer: C

Batch operations will add operational overhead. upvoted 3 times

😑 💄 pentium75 5 months, 1 week ago

And gathering all the files for copying them again does not? upvoted 1 times

😑 📥 Abrar2022 1 year ago

Use Object Lock in Compliance mode. Then Use Batch operation. WRONG>>manual work and not automated>>>Recopy all existing objects to bring the existing data into compliance. upvoted 1 times

😑 🏝 pentium75 5 months, 1 week ago

Batch IS automated. You just need to create the batch which is a one-time operation. "Recopy all existing objects" is not operational overhead? upvoted 1 times

😑 🌲 omoakin 1 year ago

С

When an object is locked in compliance mode, its retention mode can't be changed, and its retention period can't be shortened. Compliance mode helps ensure that an object version can't be overwritten or deleted for the duration of the retention period. upvoted 3 times

😑 🌲 omoakin 1 year ago

error i meant to type D i wont do recopy upvoted 1 times

😑 🌡 lucdt4 1 year ago

No, D for me because the requirement is LEAST operational overhead So RECOPy is the manual operation -> C is wrong D is correct upvoted 2 times

😑 💄 cloudenthusiast 1 year ago

Recopying vs. S3 Batch Operations: In Option C, the recommendation is to recopy all existing objects to ensure they have the appropriate retention settings. This can be done using simple S3 copy operations. On the other hand, Option D suggests using S3 Batch Operations, which is a more advanced feature and may require additional configuration and management. S3 Batch Operations can be beneficial if you have a massive number of objects and need to perform complex operations, but it might introduce more overhead for this specific use case.

Operational complexity: Option C has a straightforward process of recopying existing objects. It is a well-known operation in S3 and doesn't require additional setup or management. Option D introduces the need to set up and configure S3 Batch Operations, which can involve creating job definitions, specifying job parameters, and monitoring the progress of batch operations. This additional complexity may increase the operational overhead.

upvoted 2 times

😑 💄 Efren 1 year ago

Selected Answer: D

You need AWS Batch to re-apply certain config to files that were already in S3, like encryption upvoted 4 times

😑 💄 nosense 1 year ago

Selected Answer: D

D for me, bcs no sense to recopy all data upvoted 2 times

😑 🌲 cloudenthusiast 1 year ago

But D will introduce operation overhead upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

So does C. upvoted 1 times

A company has a stateless web application that runs on AWS Lambda functions that are invoked by Amazon API Gateway. The company wants to deploy the application across multiple AWS Regions to provide Regional failover capabilities.

What should a solutions architect do to route traffic to multiple Regions?

A. Create Amazon Route 53 health checks for each Region. Use an active-active failover configuration.

B. Create an Amazon CloudFront distribution with an origin for each Region. Use CloudFront health checks to route traffic.

B (15%)

C. Create a transit gateway. Attach the transit gateway to the API Gateway endpoint in each Region. Configure the transit gateway to route requests.

D. Create an Application Load Balancer in the primary Region. Set the target group to point to the API Gateway endpoint hostnames in each Region.

Correct Answer: A

Community vote distribution

A (85%)

😑 🌡 TariqKipkemei (Highly Voted 🖬) 12 months ago

Selected Answer: A

Global, Reduce latency, health checks, no failover = Amazon CloudFront Global ,Reduce latency, health checks, failover, Route traffic = Amazon Route 53 option A has more weight. upvoted 23 times

😑 🌲 ManikRoy 1 month ago

Cloud front does have failover capabilities. https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/high_availability_origin_failover.html#:~:text=the%20secondary%20o gin.-,Note,Choose%20Create%20origin%20group.

upvoted 1 times

😑 💄 Anmol_1010 7 months, 4 weeks ago

nicley explained upvoted 2 times

😑 🌲 examtopictempacc (Highly Voted 🖬) 1 year ago

Selected Answer: A

A. I'm not an expert in this area, but I still want to express my opinion. After carefully reviewing the question and thinking about it for a long time, actually don't know the reason. As I mentioned at the beginning, I'm not an expert in this field. upvoted 16 times

😑 🏝 awsgeek75 4 months, 3 weeks ago

All the explanation you need for this question and option A is in this article:

https://aws.amazon.com/blogs/compute/building-a-multi-region-serverless-application-with-amazon-api-gateway-and-aws-lambda/ upvoted 2 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: A

B: Caching solution. Not ideal for failover although it will work. Would have been a correct answer if A wasn't an optionC: Transit gateway is for VPC connectivity not AWS API or LambdaD: Even if it was possible, there is a primary region dependency of ALBA: correct because R53 health checks can failover across regions

Good explanation here:

https://aws.amazon.com/blogs/compute/building-a-multi-region-serverless-application-with-amazon-api-gateway-and-aws-lambda/ upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

The article also explains why you cannot use a CloudFront distribution for API Gateway, Lambda for failover upvoted 1 times

😑 💄 tosuccess 5 months, 1 week ago

Selected Answer: B

we can set primary and secondry regions in cloud front for failover. upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: A

Application is serverless, it doesn't matter where it runs, so can be active-active setup and run wherever the request comes in. Route 53 with health checks will route to a healthy region.

B, could work too, but CloudFront is for caching which does not seem to help with an API. The goal here is "failover capabilities", not caching/performance/latency etc.

upvoted 3 times

😑 🌲 Goutham4981 6 months, 3 weeks ago

Selected Answer: A

In activ active failover config, route53 continuously monitors its endpoints and if one of them is unhealthy, it excludes the region/endpoint from its valid traffic route - Only Sensible option

Cloudfront is a content delivery network - not used to route traffic Transit gateway for traffic routing - aws devs will hit us with a stick on hearing this option You cant use a load balancer for cross region load balancing - invalid upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

Global ,Reduce latency, health checks, failover, Route traffic = Amazon Route 53 upvoted 1 times

😑 🌲 youdelin 8 months ago

"What the?" yeah I know right upvoted 1 times

😑 🌲 jrestrepob 9 months, 2 weeks ago

Selected Answer: B

"Stateless applications provide one service or function and use content delivery network (CDN), web, or print servers to process these short-term requests.

https://docs.aws.amazon.com/architecture-diagrams/latest/multi-region-api-gateway-with-cloudfront/multi-region-api-gateway-with-cloudfront.html

upvoted 1 times

😑 🌲 deechean 9 months, 2 weeks ago

its not static content, actually they deployed a API Gateway backed by lambda upvoted 2 times

😑 🌲 MrAWSAssociate 12 months ago

Selected Answer: A

A option does make sense. upvoted 1 times

😑 🌢 Sangsation 12 months ago

Selected Answer: B

By creating an Amazon CloudFront distribution with origins in each AWS Region where the application is deployed, you can leverage CloudFront's global edge network to route traffic to the closest available Region. CloudFront will automatically route the traffic based on the client's location an the health of the origins using CloudFront health checks.

Option A (creating Amazon Route 53 health checks with an active-active failover configuration) is not suitable for this scenario as it is primarily used for failover between different endpoints within the same Region, rather than routing traffic to different Regions. upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Option A does not speak of Route 53 failover routing policies. upvoted 1 times

E **Axeashes** 12 months ago

Selected Answer: A

https://aws.amazon.com/blogs/compute/building-a-multi-region-serverless-application-with-amazon-api-gateway-and-aws-lambda/ upvoted 3 times

😑 🌡 Gooniegoogoo 11 months, 2 weeks ago

that is from 2017.. i wonder if it is still relevant.. upvoted 1 times

😑 🌡 DrWatson 1 year ago

Selected Answer: A

https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/dns-failover.html upvoted 1 times

😑 🏝 antropaws 1 year ago

Selected Answer: A

I understand that you can use Route 53 to provide regional failover. upvoted 1 times

□ ▲ alexandercamachop 1 year ago

Selected Answer: A

To route traffic to multiple AWS Regions and provide regional failover capabilities for a stateless web application running on AWS Lambda functions invoked by Amazon API Gateway, you can use Amazon Route 53 with an active-active failover configuration.

By creating Amazon Route 53 health checks for each Region and configuring an active-active failover configuration, Route 53 can monitor the health of the endpoints in each Region and route traffic to healthy endpoints. In the event of a failure in one Region, Route 53 automatically route: traffic to the healthy endpoints in other Regions.

This setup ensures high availability and failover capabilities for your web application across multiple AWS Regions. upvoted 2 times

😑 💄 udo2020 1 year ago

I think it's A because the keyword is "route" traffic. upvoted 2 times

😑 🏝 omoakin 1 year ago

😑 🌲 karbob 1 year ago

CloudFront does not support health checks for routing traffic. is designed primarily for content distribution and caching, rather than for load balancing or traffic routing based on health checks. upvoted 1 times

A company has two VPCs named Management and Production. The Management VPC uses VPNs through a customer gateway to connect to a single device in the data center. The Production VPC uses a virtual private gateway with two attached AWS Direct Connect connections. The Management and Production VPCs both use a single VPC peering connection to allow communication between the applications.

What should a solutions architect do to mitigate any single point of failure in this architecture?

A. Add a set of VPNs between the Management and Production VPCs.

B. Add a second virtual private gateway and attach it to the Management VPC.

C. Add a second set of VPNs to the Management VPC from a second customer gateway device.

D. Add a second VPC peering connection between the Management VPC and the Production VPC.

Community vote distribution

C (100%)

😑 👗 Guru4Cloud (Highly Voted 🐽) 9 months, 3 weeks ago

Selected Answer: C

C is the correct option to mitigate the single point of failure.

The Management VPC currently has a single VPN connection through one customer gateway device. This is a single point of failure.

Adding a second set of VPN connections from the Management VPC to a second customer gateway device provides redundancy and eliminates this single point of failure.

upvoted 6 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

As @Abrar2022 explains (production) VPN 1-----> cgw 1 (management) VPN 2-----> cgw upvoted 2 times

😑 🛔 Abrar2022 (Highly Voted 🖬) 1 year ago

(production) VPN 1-----> cgw 1 (management) VPN 2-----> cgw 2 upvoted 5 times

😑 👗 Abrar2022 1 year ago

ANSWER IS C upvoted 1 times

😑 👗 bsbs1234 (Most Recent 🕑 8 months, 2 weeks ago

C,

(production) --PrivateGateway-----> Direct Connect Gateway 1 ---> cgw 1 ---> DataCenter (production) -- PrivateGateway -----> Direct Connect Gateway 2 ---> cgw 2 --> DataCenter (Management) -- > VPN ---- > (Direct Connect Gateway 1?) --- > cgw1 ---> dataCenter---> device in dataCenter upvoted 1 times

omoakin 1 year ago I agree to C upvoted 1 times

😑 💄 cloudenthusiast 1 year ago

Selected Answer: C

option D is not a valid solution for mitigating single points of failure in the architecture. I apologize for the confusion caused by the incorrect information.

To mitigate single points of failure in the architecture, you can consider implementing option C: adding a second set of VPNs to the Management VPC from a second customer gateway device. This will introduce redundancy at the VPN connection level for the Management VPC, ensuring that one customer gateway or VPN connection fails, the other connection can still provide connectivity to the data center.

😑 🛔 Efren 1 year ago

Selected Answer: C

Redundant VPN connections: Instead of relying on a single device in the data center, the Management VPC should have redundant VPN connections established through multiple customer gateways. This will ensure high availability and fault tolerance in case one of the VPN connections or customer gateways fails.

upvoted 4 times

😑 👗 nosense 1 year ago

Selected Answer: C

https://www.examtopics.com/discussions/amazon/view/53908-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 2 times

A company runs its application on an Oracle database. The company plans to quickly migrate to AWS because of limited resources for the database, backup administration, and data center maintenance. The application uses third-party database features that require privileged access.

Which solution will help the company migrate the database to AWS MOST cost-effectively?

A. Migrate the database to Amazon RDS for Oracle. Replace third-party features with cloud services.

B. Migrate the database to Amazon RDS Custom for Oracle. Customize the database settings to support third-party features.

C. Migrate the database to an Amazon EC2 Amazon Machine Image (AMI) for Oracle. Customize the database settings to support third-party features.

D. Migrate the database to Amazon RDS for PostgreSQL by rewriting the application code to remove dependency on Oracle APEX.

Correct Answer: C		
Community vote distribution	В (94%)	6%

😑 🌲 awsgeek75 5 months ago

Selected Answer: B

Key constraints: Limited resources for DB admin and cost. 3rd party db features with privileged access.

A: Won't work due to 3rd party features

C: AMI with Oracle may work but again overhead of backed, maintenance etc

D: Too much overhead in rewrite

B: Actually supports Oracle 3rd party features

Caution: If this is only about APEX as suggested in option D, then A is also a possible answer:

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Appendix.Oracle.Options.APEX.html

upvoted 2 times

😑 🌲 awsgeek75 5 months ago

Action ignore the last line of my previous comment, A is not a valid option in any case as it suggest replacing 3rd party features with cloud services which is not possible without more details.

upvoted 1 times

😑 📥 pentium75 5 months, 1 week ago

Selected Answer: B

"Amazon RDS Custom is a managed database service for applications that require customization of the underlying operating system and database environment. Benefits of RDS automation with the access needed for legacy, packaged, and custom applications."

That should allow the "privileged access". upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Migrate the database to Amazon RDS Custom for Oracle. Customize the database settings to support third-party features. upvoted 2 times

😑 🆀 TariqKipkemei 12 months ago

Selected Answer: B

Custom database features = Amazon RDS Custom for Oracle upvoted 3 times

😑 🌲 antropaws 1 year ago

Selected Answer: B

Most likely B.

upvoted 1 times

E Abrar2022 1 year ago

Selected Answer: B

RDS Custom since it's related to 3rd vendor RDS Custom since it's related to 3rd vendor RDS Custom since it's related to 3rd vendor upvoted 4 times

😑 🌡 omoakin 1 year ago

upvoted 1 times

😑 👗 aqmdla2002 1 year ago

Selected Answer: B

https://aws.amazon.com/about-aws/whats-new/2021/10/amazon-rds-custom-oracle/ upvoted 1 times

😑 🌲 hiroohiroo 1 year ago

Selected Answer: B

https://docs.aws.amazon.com/ja_jp/AmazonRDS/latest/UserGuide/Oracle.Resources.html upvoted 1 times

😑 💄 karbob 1 year ago

Amazon RDS Custom for Oracle, which is not an actual service. !!!! upvoted 1 times

😑 💄 nosense 1 year ago

Option C is also a valid solution, but it is not as cost-effective as option B. Option C requires the company to manage its own database infrastructure, which can be expensive and time-consuming. Additionally, the company will need to purchase and maintain Oracle licenses. upvoted 2 times

😑 👗 y0 1 year ago

RDS Custom enables the capability to access the underlying database and OS so as to configure additional settings to support 3rd party. This feature is applicable only for Oracle and Postgresql upvoted 1 times

😑 💄 y0 1 year ago

Sorry Oracle and sql server (not posstgresql) upvoted 1 times

😑 💄 omoakin 1 year ago

I will say C cos of this "application uses third-party " upvoted 1 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: C

Should not it be since for Ec2, the company will have full control over the database and this is the reason that they are moving to AWS in the first place "The company plans to quickly migrate to AWS because of limited resources for the database, backup administration, and data center maintenance?"

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Amazon RDS Custom (B) is a managed database service for applications that require customization of the underlying operating system and database environment. Benefits of RDS automation with the access needed for legacy, packaged, and custom applications." upvoted 1 times

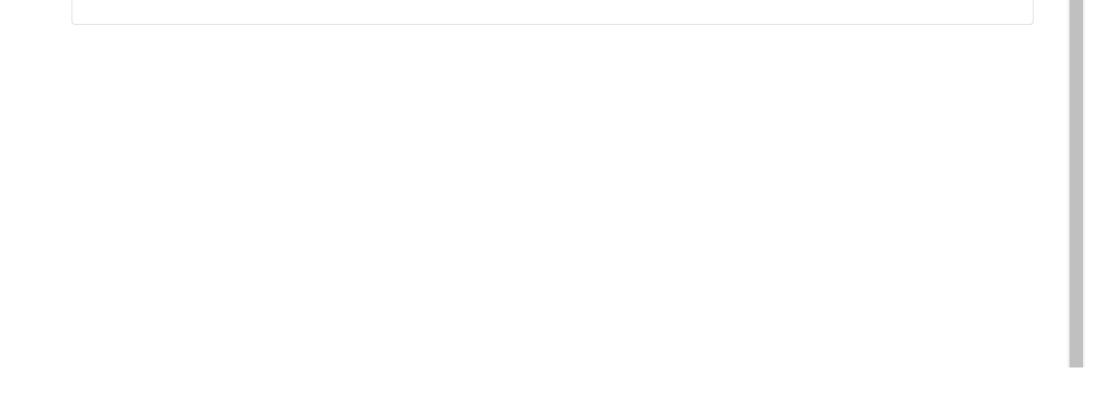
😑 🌲 Efren 1 year ago

Selected Answer: B

RDS Custom when is something related to 3rd vendor, for me upvoted 1 times

😑 💄 nosense 1 year ago

not sure, but b probably upvoted 2 times



A company has a three-tier web application that is in a single server. The company wants to migrate the application to the AWS Cloud. The company also wants the application to align with the AWS Well-Architected Framework and to be consistent with AWS recommended best practices for security, scalability, and resiliency.

Which combination of solutions will meet these requirements? (Choose three.)

A. Create a VPC across two Availability Zones with the application's existing architecture. Host the application with existing architecture on an Amazon EC2 instance in a private subnet in each Availability Zone with EC2 Auto Scaling groups. Secure the EC2 instance with security groups and network access control lists (network ACLs).

B. Set up security groups and network access control lists (network ACLs) to control access to the database layer. Set up a single Amazon RDS database in a private subnet.

C. Create a VPC across two Availability Zones. Refactor the application to host the web tier, application tier, and database tier. Host each tier on its own private subnet with Auto Scaling groups for the web tier and application tier.

D. Use a single Amazon RDS database. Allow database access only from the application tier security group.

E. Use Elastic Load Balancers in front of the web tier. Control access by using security groups containing references to each layer's security groups.

F. Use an Amazon RDS database Multi-AZ cluster deployment in private subnets. Allow database access only from application tier security groups.

Correct Answer: ACF

Community vote distribution

CEF (100%)

😑 🌲 awsgeek75 (Highly Voted 🖬) 5 months ago

Selected Answer: CEF

The wording on this question makes things ambiguous for C. But, remember well-architected so: A: Not ideal as it is suggesting using existing architecture but with autoscaling EC2. Doesn't leave room for improvement on scaling or reliability or each tier. B: Single RDS, not well-architected D: Again, single RDS E,F are good options and C is only remaining good one. upvoted 6 times

😑 🌲 awsgeek75 5 months ago

C is badly worded IMHO because of this part "Refactor the application to host the web tier, application tier, and database tier." The database tier tier just makes it confusing when you don't read E and F. upvoted 1 times

😑 👗 Abrar2022 [Highly Voted 🖬] 1 year ago

Selected Answer: CEF

C-scalable and resilient E-high availability of the application F-Multi-AZ configuration provides high availability

😑 💄 Burrito69 (Most Recent 🕑) 2 months, 2 weeks ago remove singles and remove network ACLs upvoted 2 times

E **ijcode** 4 months, 2 weeks ago

i would flag this on the test and do it last. upvoted 3 times

🖃 🌡 argl1995 11 months, 1 week ago

option A cannot be the answer as Security group is at instance level whereas a NACL is at the subnet level. Having said that option C is the right one as the VPC cannot span across the regions and here it is mentioned two AZs for which I am guessing it is a default VPC which is created in each region with a subnet in each AZ.

upvoted 1 times

😑 🌡 argl1995 11 months, 1 week ago

So, CEF is the right answer

upvoted 1 times

😑 💄 Gooniegoogoo 11 months, 2 weeks ago

How can you create a VPC across 2 AZ? i only see EF here.. if they mean 2 separate VPC then that is different but a VPC cannot span two AZ.. upvoted 1 times

😑 💄 lemur88 9 months, 3 weeks ago

A VPC most definitely can span across 2 AZ. You may be thinking of subnets. upvoted 2 times

😑 🌲 marufxplorer 12 months ago

I also agree with CEF but chatGPT answer is ACE. A and C is the similar Another Logic F is not True because in the question not mentioned about DB upvoted 1 times

□ ▲ awsgeek75 4 months, 3 weeks ago

ChatGPT is a language parser. It is not an AWS solution architect! upvoted 2 times

E **LariqKipkemei** 12 months ago

Selected Answer: CEF CEF is best upvoted 1 times

😑 🏝 antropaws 1 year ago

Selected Answer: CEF

It's clearly CEF. upvoted 1 times

😑 🏝 omoakin 1 year ago

B- to control access to databaseC-scalable and resilientE-high availability of the applicationupvoted 1 times

😑 💄 lucdt4 1 year ago

Selected Answer: CEF

CEF A: application's existing architecture is wrong (single AZ) B: single AZ D: Single AZ upvoted 2 times

😑 🌲 cloudenthusiast 1 year ago

C.

This solution follows the recommended architecture pattern of separating the web, application, and database tiers into different subnets. It provides better security, scalability, and fault tolerance.

E.By using Elastic Load Balancers (ELBs), you can distribute traffic to multiple instances of the web tier, increasing scalability and availability. Controlling access through security groups allows for fine-grained control and ensures only authorized traffic reaches each layer. F.

Deploying an Amazon RDS database in a Multi-AZ configuration provides high availability and automatic failover. Placing the database in private subnets enhances security. Allowing database access only from the application tier security groups limits exposure and follows the principle of leas privilege.

upvoted 4 times

😑 🌲 mwwt2022 5 months ago

good explanation upvoted 1 times



Selected Answer: CEF

Only this valid for best practices and well architected upvoted 4 times

Which activities will be managed by the company's operational team? (Choose three.)

A. Management of the Amazon RDS infrastructure layer, operating system, and platforms

B. Creation of an Amazon RDS DB instance and configuring the scheduled maintenance window

C. Configuration of additional software components on Amazon ECS for monitoring, patch management, log management, and host intrusion detection

D. Installation of patches for all minor and major database versions for Amazon RDS

E. Ensure the physical security of the Amazon RDS infrastructure in the data center

F. Encryption of the data that moves in transit through Direct Connect

Correct Answer: BCF

Community vote distribution

BCF (96%)

4%

😑 💄 pentium75 (Highly Voted 🖬) 5 months, 1 week ago

Selected Answer: BCF

ADE = AWS responsibility upvoted 7 times

😑 🌲 awsgeek75 (Highly Voted 🖬) 4 months, 3 weeks ago

Selected Answer: BCF

Just to clarify on F. Direct Connect is an ISP and AWS offering, I consider it as a physical connection just like you get from your ISP at home. There i not security on it until you build security on the connection. AWS provides Direct Connect but it does not provide encryption level security on data movement through it by default. It's the customer's responsibility. upvoted 5 times

😑 👗 Guru4Cloud [Most Recent 🕗] 9 months, 3 weeks ago

Selected Answer: BCF

B: Creating an RDS instance and configuring the maintenance window is done by the customer.

C: Adding monitoring, logging, etc on ECS is managed by the customer.

F: Encrypting Direct Connect traffic is handled by the customer. upvoted 4 times

😑 🌲 james2033 10 months, 3 weeks ago

Selected Answer: BCF

In question has 3 keyword "Amazon ECS", "AWS Direct Connect", "Amazon RDS". With per Amazon services, choose 1 according answer. Has 6 items, need pick 3 items.

ECS --> choose C.

Direct Connect --> choose F.

RDS --> Excluse A (by keyword "infrastructure layer"), Choose B. Exclusive D (by keyword "patches for all minor and major database versions for Amazon RDS"). Exclusive E (by keyword "Ensure the physical security of the Amazon RDS"). Easy question. upvoted 3 times

😑 💄 kapit 11 months, 3 weeks ago

BC & F (no automatic encryption with direct connect upvoted 1 times

😑 🌲 TariqKipkemei 12 months ago

Selected Answer: BF

Amazon ECS is a fully managed service, the ops team only focus on building their applications, not the environment. Only option B and F makes sense.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Plus C (we were asked for three). Configuration (!) of components for monitoring, log management etc.; those services exist from AWS but you need to configure them (which logs do you want to store for how long etc.). upvoted 1 times

😑 🌲 antropaws 1 year ago

Selected Answer: BCF

100% BCF. upvoted 1 times

😑 🌡 lucdt4 1 year ago

Selected Answer: BCF

- BCF
- B: Mentioned RDS
- C: Mentioned ECS
- F: Mentioned Direct connect
- upvoted 4 times

😑 🌡 hiroohiroo 1 year ago

Selected Answer: BCF

Yes BCF upvoted 1 times

😑 💄 omoakin 1 year ago

I agree BCF upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: BCF

Bcf for me upvoted 2 times

A company runs a Java-based job on an Amazon EC2 instance. The job runs every hour and takes 10 seconds to run. The job runs on a scheduled interval and consumes 1 GB of memory. The CPU utilization of the instance is low except for short surges during which the job uses the maximum CPU available. The company wants to optimize the costs to run the job.

Which solution will meet these requirements?

A. Use AWS App2Container (A2C) to containerize the job. Run the job as an Amazon Elastic Container Service (Amazon ECS) task on AWS Fargate with 0.5 virtual CPU (vCPU) and 1 GB of memory.

B. Copy the code into an AWS Lambda function that has 1 GB of memory. Create an Amazon EventBridge scheduled rule to run the code each hour.

C. Use AWS App2Container (A2C) to containerize the job. Install the container in the existing Amazon Machine Image (AMI). Ensure that the schedule stops the container when the task finishes.

D. Configure the existing schedule to stop the EC2 instance at the completion of the job and restart the EC2 instance when the next job starts.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 💄 noircesar25 3 months, 2 weeks ago

can someone explain what makes A wrong, im aware that C hasnt covered all the requirements but A seems good with fargate serverless and autoscaling functionalities, plus AWS app2container is for .NET and JAVA upvoted 2 times

😑 💄 bujuman 2 months, 2 weeks ago

Statement: A company runs a Java-based job on an Amazon EC2 instance
Requirement: The company wants to optimize the costs to run the job
Regarding option A: App2Container is more likely for migratiing legacy application to conatiner based application.
Which is not the main purpose of this use case.
We are asked to reduce cost on a application that is already running under EC2 instance.
So option B has the hight weight, cause lambda could perfectly do the job with the minimal cost upvoted 4 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: B

Never done it myself but apparently you can run Java in Lambda all the way to latest version https://docs.aws.amazon.com/lambda/latest/dg/lambda-java.html upvoted 2 times

😑 🌲 omarshaban 4 months, 3 weeks ago

THIS WAS IN MY EXAM upvoted 4 times

😑 🌲 Murtadhaceit 6 months ago

Selected Answer: B

This question is intended for Lambda. Just searched for Lambda with Event bridge. I upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: B

Lambda allows you to allocate memory for your functions in increments of 1 MB, ranging from a minimum of 128 MB to a maximum of 10,240 MB (10 GB).

upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Remember - AWS Lambda function can go up to 10 GB of memory, instead of free tier only allow 512MB. upvoted 3 times

😑 🌲 james2033 10 months, 3 weeks ago

Selected Answer: B

"AWS Batch jobs as EventBridge targets" at https://docs.aws.amazon.com/batch/latest/userguide/batch-cwe-target.html

AWS Batch + Amazon EventBridge https://docs.aws.amazon.com/batch/latest/userguide/batch-cwe-target.html .

AWS Lambda just for a point of time per period. Choose B. upvoted 1 times

😑 🌲 TariqKipkemei 12 months ago

Selected Answer: B

10 seconds to run, optimize the costs, consumes 1 GB of memory = AWS Lambda function. upvoted 1 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: B

AWS Lambda automatically scales resources to handle the workload, so you don't have to worry about managing the underlying infrastructure. It provisions the necessary compute resources based on the configured memory size (1 GB in this case) and executes the job in a serverless environment.

By using Amazon EventBridge, you can create a scheduled rule to trigger the Lambda function every hour, ensuring that the job runs on the desired interval.

upvoted 1 times

😑 🏝 Yadav_Sanjay 1 year ago

Selected Answer: B

B - Within 10 sec and 1 GB Memory (Lambda Memory 128MB to 10GB) upvoted 2 times

😑 👗 Yadav_Sanjay 1 year ago

https://docs.aws.amazon.com/lambda/latest/operatorguide/computing-power.html upvoted 1 times

😑 🌡 Efren 1 year ago

Selected Answer: B

Agreed, B Lambda upvoted 2 times

A company wants to implement a backup strategy for Amazon EC2 data and multiple Amazon S3 buckets. Because of regulatory requirements, the company must retain backup files for a specific time period. The company must not alter the files for the duration of the retention period.

Which solution will meet these requirements?

A. Use AWS Backup to create a backup vault that has a vault lock in governance mode. Create the required backup plan.

- B. Use Amazon Data Lifecycle Manager to create the required automated snapshot policy.
- C. Use Amazon S3 File Gateway to create the backup. Configure the appropriate S3 Lifecycle management.
- D. Use AWS Backup to create a backup vault that has a vault lock in compliance mode. Create the required backup plan.

Correct Answer: A

Community vote distribution

D (100%)

😑 👗 Efren (Highly Voted 🖬) 1 year ago

D, Governance is like the goverment, they can do things you cannot , like delete files or backups :D Compliance, nobody can! upvoted 32 times

😑 💄 cmbt 11 months, 1 week ago

Finally I understood! upvoted 2 times

😑 🌲 joshnort 11 months, 3 weeks ago

Great analogy upvoted 7 times

😑 上 f2e2419 (Most Recent 🕗) 5 months ago

Selected Answer: D

D. Use AWS Backup to create a backup vault that has a vault lock in compliance mode. Create the required backup plan upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

D. Use AWS Backup to create a backup vault that has a vault lock in compliance mode. Create the required backup plan upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Use AWS Backup to create a backup vault that has a vault lock in compliance mode. Create the required backup plan upvoted 2 times

😑 👗 ccat91 10 months, 2 weeks ago

Selected Answer: D

Compliance mode upvoted 1 times

E 🌡 TariqKipkemei 12 months ago

Selected Answer: D

Must not alter the files for the duration of the retention period = Compliance Mode upvoted 1 times

😑 🌲 antropaws 1 year ago

Selected Answer: D

D for sure.

upvoted 1 times

😑 🌲 dydzah 1 year ago

Selected Answer: D

https://docs.aws.amazon.com/aws-backup/latest/devguide/vault-lock.html upvoted 1 times

😑 💄 cloudenthusiast 1 year ago

Selected Answer: D

compliance mode upvoted 3 times

😑 🏝 nosense 1 year ago

Selected Answer: D

D bcs in governance we can delete backup upvoted 4 times

A company has resources across multiple AWS Regions and accounts. A newly hired solutions architect discovers a previous employee did not provide details about the resources inventory. The solutions architect needs to build and map the relationship details of the various workloads across all accounts.

Which solution will meet these requirements in the MOST operationally efficient way?

A. Use AWS Systems Manager Inventory to generate a map view from the detailed view report.

B. Use AWS Step Functions to collect workload details. Build architecture diagrams of the workloads manually.

C. Use Workload Discovery on AWS to generate architecture diagrams of the workloads.

D. Use AWS X-Ray to view the workload details. Build architecture diagrams with relationships.

Correct Answer: A		
Community vote distribution		
	C (95%)	5%

😑 🌡 zinabu 2 months ago

workload discovery=architecture diagram upvoted 2 times

😑 🌲 osmk 4 months, 4 weeks ago

https://docs.aws.amazon.com/solutions/latest/workload-discovery-on-aws/solution-overview.htmlWorkload Discovery on AWS is a visualization tool that automatically generates architecture diagrams of your workload on AWS. You can use this solution to build, customize, and share detailec workload visualizations based on live data from AWS upvoted 2 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: C

A: Systems Manager Inventory -> Metadata B: Not possible (correct me if I'm wrong) D: X-Ray is for application debugging C: Workload Discovery is purpose built tool for this type of usage upvoted 3 times

😑 💄 NayeraB 3 months, 3 weeks ago

Even if B is possible, it has "manually" in it which we won't do because we're lazy in this question upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: C

Workload Discovery on AWS (formerly called AWS Perspective) is a tool to visualize AWS Cloud workloads. Use Workload Discovery on AWS to build, customize, and share detailed architecture diagrams of your workloads based on live data from AWS. upvoted 2 times

😑 🌲 TariqKipkemei 7 months, 2 weeks ago

Selected Answer: C

use Workload Discovery on AWS

upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Workload Discovery is purpose-built to automatically generate visual mappings of architectures across accounts and Regions. This makes it the most operationally efficient way to meet the requirements.

upvoted 3 times

😑 🌲 MrAWSAssociate 12 months ago

Selected Answer: C

Option A: AWS SSM offers "Software inventory": Collect software catalog and configuration for your instances. Option C: Workload Discovery on AWS: is a tool for maintaining an inventory of the AWS resources across your accounts and various Regions and mapping relationships between them, and displaying them in a web UI.

upvoted 4 times

😑 🌡 DrWatson 1 year ago

Selected Answer: A

https://aws.amazon.com/blogs/mt/visualizing-resources-with-workload-discovery-on-aws/ upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

That is C upvoted 1 times

😑 👗 Abrar2022 1 year ago

Selected Answer: C

AWS Workload Discovery - create diagram, map and visualise AWS resources across AWS accounts and Regions upvoted 2 times

😑 🌲 Abrar2022 1 year ago

Workload Discovery on AWS can map AWS resources across AWS accounts and Regions and visualize them in a UI provided on the website. upvoted 1 times

😑 🌡 hiroohiroo 1 year ago

Selected Answer: C

https://aws.amazon.com/jp/builders-flash/202209/workload-discovery-on-aws/?awsf.filter-name=*all upvoted 2 times

😑 💄 omoakin 1 year ago

Only C makes sense upvoted 2 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: C

Workload Discovery on AWS is a service that helps visualize and understand the architecture of your workloads across multiple AWS accounts and Regions. It automatically discovers and maps the relationships between resources, providing an accurate representation of the architecture. upvoted 2 times

😑 🌡 Efren 1 year ago

Not sure here tbh

To efficiently build and map the relationship details of various workloads across multiple AWS Regions and accounts, you can use the AWS System: Manager Inventory feature in combination with AWS Resource Groups. Here's a solution that can help you achieve this:

AWS Systems Manager Inventory: upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: C

only c mapping relationships upvoted 1 times

A company uses AWS Organizations. The company wants to operate some of its AWS accounts with different budgets. The company wants to receive alerts and automatically prevent provisioning of additional resources on AWS accounts when the allocated budget threshold is met during a specific period.

Which combination of solutions will meet these requirements? (Choose three.)

A. Use AWS Budgets to create a budget. Set the budget amount under the Cost and Usage Reports section of the required AWS accounts.

B. Use AWS Budgets to create a budget. Set the budget amount under the Billing dashboards of the required AWS accounts.

C. Create an IAM user for AWS Budgets to run budget actions with the required permissions.

D. Create an IAM role for AWS Budgets to run budget actions with the required permissions.

E. Add an alert to notify the company when each account meets its budget threshold. Add a budget action that selects the IAM identity created with the appropriate config rule to prevent provisioning of additional resources.

F. Add an alert to notify the company when each account meets its budget threshold. Add a budget action that selects the IAM identity created with the appropriate service control policy (SCP) to prevent provisioning of additional resources.

Correct Answer: *BDF*

Community vote distribution

ADF (21%) 14%

😑 👗 vesen22 (Highly Voted 🖬) 1 year ago

BDF (66%)

Selected Answer: BDF

I don't see why adf has the most voted when almost everyone has chosen bdf, smh https://acloudguru.com/videos/acg-fundamentals/how-to-set-up-an-aws-billing-and-budget-alert?utm_source=google&utm_medium=paidsearch&utm_campaign=cloud-transformation&utm_term=ssi-global-acg-core-dsa&utm_content=freetrial&gclid=Cj0KCQjwmtGjBhDhARIsAEqfDEcDfXdLul2NxgSMxKracIITZimWOtDBRpsJPpx8IS9T4NndKhbUqPIaAIzhEALw_wcB upvoted 9 times

😑 🛔 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: ADF

Currently, AWS does not have a specific feature called "AWS Billing Dashboards." upvoted 6 times

😑 📥 [Removed] 1 year ago

https://awslabs.github.io/scale-out-computing-on-aws/workshops/TKO-Scale-Out-Computing/modules/071-budgets/ upvoted 2 times

😑 💄 omarshaban (Most Recent 🕗) 4 months, 3 weeks ago

IN MY EXAM upvoted 5 times

😑 👗 TariqKipkemei 7 months, 2 weeks ago

Selected Answer: DF

Its 11/Nov/2023. Options D&F are definitely required. As for the budget, right from the aws console, the only place to set this up is: AWS Billing>Cost Management>Budgets. upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: BDF

How to create a budget: Billing console > budget > create budget! upvoted 4 times

E & Chris22usa 11 months, 2 weeks ago

ACF:

Option B is incorrect because the budget amount should be set under the Cost and Usage Reports section, not the Billing dashboards. upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Create an AWS Budget: Go to the AWS Billing Dashboard"

https://awslabs.github.io/scale-out-computing-on-aws/workshops/TKO-Scale-Out-Computing/modules/071-budgets/ upvoted 1 times

😑 📥 Abrar2022 1 year ago

Selected Answer: BDF

How to create a budget: Billing console > budget > create budget! upvoted 2 times

😑 💄 udo2020 1 year ago

It is BDF because there is actually a Billing Dashboard available. upvoted 6 times

😑 🌲 hiroohiroo 1 year ago

Selected Answer: BDF

https://docs.aws.amazon.com/ja_jp/awsaccountbilling/latest/aboutv2/view-billing-dashboard.html upvoted 4 times

😑 💄 y0 1 year ago

BDF - Budgets can be set from the billing dashboard in AWS console upvoted 2 times

😑 👗 Efren 1 year ago

if im not wrong, those are correct upvoted 2 times

A company runs applications on Amazon EC2 instances in one AWS Region. The company wants to back up the EC2 instances to a second Region. The company also wants to provision EC2 resources in the second Region and manage the EC2 instances centrally from one AWS account.

Which solution will meet these requirements MOST cost-effectively?

A. Create a disaster recovery (DR) plan that has a similar number of EC2 instances in the second Region. Configure data replication.

B. Create point-in-time Amazon Elastic Block Store (Amazon EBS) snapshots of the EC2 instances. Copy the snapshots to the second Region periodically.

C. Create a backup plan by using AWS Backup. Configure cross-Region backup to the second Region for the EC2 instances.

D. Deploy a similar number of EC2 instances in the second Region. Use AWS DataSync to transfer the data from the source Region to the second Region.

Correct Answer: C

Community vote distribution

D (21%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

C (79%)

Selected Answer: C

Using AWS Backup, you can create backup plans that automate the backup process for your EC2 instances. By configuring cross-Region backup, you can ensure that backups are replicated to the second Region, providing a disaster recovery capability. This solution is cost-effective as it leverages AWS Backup's built-in features and eliminates the need for manual snapshot management or deploying and managing additional EC2 instances in the second Region.

upvoted 6 times

😑 👗 bogobob (Most Recent 🕐) 6 months, 4 weeks ago

Selected Answer: D

How does AWS Backup address that "The company also wants to provision EC2 resources in the second Region"? upvoted 3 times

□ ▲ NSA_Poker 1 week, 3 days ago

With AWS Backup you can 'back up the EC2 instances to a second Region' by implementing cross-Region backup & 'provision EC2 resources in the second Region' by restoring the backup using the AWS Backup console.

https://docs.aws.amazon.com/aws-backup/latest/devguide/restore-resource.html

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

How do A, B or D address that? They want to "provision EC2 resources", nobody says that this should be copies of the existing servers. And if it should be copies of the existing servers, wouldn't we need the same (not "a similar") number of servers? We have no idea how many applications on how many servers they have.

upvoted 1 times

😑 🏝 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C is the most cost-effective solution that meets all the requirements.

AWS Backup provides automated backups across Regions for EC2 instances. This handles the backup requirement.

AWS Backup is more cost-effective for cross-Region EC2 backups than using EBS snapshots manually or DataSync. upvoted 4 times

😑 🏝 wizcloudifa 1 month, 3 weeks ago

Well Datasync is to transfer data from on-prem to AWS rather than AWS R1 to R2, and it is use for a one-time migration rather than repetitive data migration activities like backups hence its out(on so many levels) upvoted 2 times

😑 💄 TariqKipkemei 12 months ago

Selected Answer: C

AWS backup upvoted 1 times

😑 🌡 omoakin 1 year ago

CCCCC

. Create a backup plan by using AWS Backup. Configure cross-Region backup to the second Region for the EC2 instances. upvoted 1 times

😑 💄 Blingy 1 year ago

CCCCCCC upvoted 1 times

😑 👗 Efren 1 year ago

C, i would say same, always AWS Backup upvoted 1 times

A company that uses AWS is building an application to transfer data to a product manufacturer. The company has its own identity provider (IdP). The company wants the IdP to authenticate application users while the users use the application to transfer data. The company must use Applicability Statement 2 (AS2) protocol.

Which solution will meet these requirements?

A. Use AWS DataSync to transfer the data. Create an AWS Lambda function for IdP authentication.

B. Use Amazon AppFlow flows to transfer the data. Create an Amazon Elastic Container Service (Amazon ECS) task for IdP authentication.

C. Use AWS Transfer Family to transfer the data. Create an AWS Lambda function for IdP authentication.

D. Use AWS Storage Gateway to transfer the data. Create an Amazon Cognito identity pool for IdP authentication.

Correct Answer: C				
Community vote distribution C (86%)	14%			

😑 🌲 TariqKipkemei (Highly Voted 🖬) 12 months ago

Selected Answer: C

Option C stands out stronger because AWS Transfer Family securely scales your recurring business-to-business file transfers to AWS Storage services using SFTP, FTPS, FTP, and AS2 protocols.

And AWS Lambda can be used to authenticate users with the company's IdP.

upvoted 9 times

😑 💄 baba365 11 months, 1 week ago

Ans : C

To authenticate your users, you can use your existing identity provider with AWS Transfer Family. You integrate your identity provider using an AWS Lambda function, which authenticates and authorizes your users for access to Amazon S3 or Amazon Elastic File System (Amazon EF\$).

https://docs.aws.amazon.com/transfer/latest/userguide/custom-identity-provider-users.html upvoted 5 times

😑 👗 zinabu (Most Recent 🕗) 2 months ago

aws transfer family for data transfer and lamda function for idp authentication upvoted 2 times

😑 🏝 awsgeek75 5 months ago

Selected Answer: C

https://aws.amazon.com/about-aws/whats-new/2022/07/aws-transfer-family-support-applicability-statement-2-as2/ upvoted 3 times

😑 🌡 potomac 7 months, 1 week ago

Selected Answer: C

To authenticate your users, you can use your existing identity provider with AWS Transfer Family. You integrate your identity provider using an AWS Lambda function, which authenticates and authorizes your users for access to Amazon S3 or Amazon Elastic File System (Amazon EFS). upvoted 2 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: C

Applicability Statement 2 (AS2) is a business-to-business (B2B) messaging protocol used to exchange Electronic Data Interchange (EDI) documents With AWS Transfer Family's AS2 capabilities, you can securely exchange AS2 messages at scale while maintaining compliance and interoperability with your trading partners.

upvoted 1 times

😑 💄 thanhnv142 7 months, 3 weeks ago

D is ok

upvoted 1 times

🖃 🎍 hsinchang 10 months, 3 weeks ago its own IdP -> Lambda upvoted 2 times

🕒 🏜 dydzah 1 year ago

Selected Answer: C

https://docs.aws.amazon.com/transfer/latest/userguide/custom-identity-provider-users.html upvoted 1 times

😑 🌲 examtopictempacc 1 year ago

Selected Answer: C

C is correct. AWS Transfer Family supports the AS2 protocol, which is required by the company. Also, AWS Lambda can be used to authenticate users with the company's IdP, which meets the company's requirement.

upvoted 2 times

😑 💄 EA100 1 year ago

Answer - D

AS2 is a widely used protocol for secure and reliable data transfer. In this scenario, the company wants to transfer data using the AS2 protocol and authenticate application users using their own identity provider (IdP). AWS Storage Gateway provides a hybrid cloud storage solution that enables data transfer between on-premises environments and AWS.

By using AWS Storage Gateway, you can set up a gateway that supports the AS2 protocol for data transfer. Additionally, you can configure authentication using an Amazon Cognito identity pool. Amazon Cognito provides a comprehensive authentication and user management service that integrates with various identity providers, including your own IdP.

Therefore, Option D is the correct solution as it leverages AWS Storage Gateway for AS2 data transfer and allows authentication using an Amazon Cognito identity pool integrated with the company's IdP.

upvoted 1 times

😑 👗 deechean 9 months, 2 weeks ago

AWS Transfer Family also support AS2 upvoted 1 times

😑 🌲 hiroohiroo 1 year ago

Selected Answer: C

https://repost.aws/articles/ARo2ihKKThT2Cue5j6yVUgsQ/articles/ARo2ihKKThT2Cue5j6yVUgsQ/aws-transfer-family-announces-support-for-sending-as2-messages-over-https?

upvoted 1 times

😑 🌲 omoakin 1 year ago

C is correct upvoted 1 times

😑 🌲 omoakin 1 year ago

This is a new Qtn n AS2 is newly supported by AWS Transfer family.....good timing to know ur stuffs. upvoted 1 times

😑 💄 nosense 1 year ago

Option D looks the better option because it is more secure, scalable, cost-effective, and easy to use than option C. upvoted 1 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: D

AWS Storage Gateway supports the AS2 protocol for transferring data. By using AWS Storage Gateway, the company can integrate its own IdP authentication by creating an Amazon Cognito identity pool. Amazon Cognito provides user authentication and authorization capabilities, allowing the company to authenticate application users using its own IdP.

AWS Transfer Family does not currently support the AS2 protocol. AS2 is a specific protocol used for secure and reliable data transfer, often used ir business-to-business (B2B) scenarios. In this case, option C, which suggests using AWS Transfer Family, would not meet the requirement of using the AS2 protocol.

upvoted 3 times

😑 🌲 omoakin 1 year ago

AWS Transfer Family now supports the Applicability Statement 2 (AS2) protocol, complementing existing protocol support for SFTP, FTPS, and FTP

upvoted 1 times

😑 💄 y0 1 year ago

This is not a case for storage gateway which is more used for a hybrid like environment. Here, to transfer data, we can think or Datasync or Transfer family and considering AS2 protocol, transfer family looks good upvoted 2 times

😑 🌲 Efren 1 year ago

ChatGP

To meet the requirements of using an identity provider (IdP) for user authentication and the AS2 protocol for data transfer, you can implement the following solution:

AWS Transfer Family: Use AWS Transfer Family, specifically AWS Transfer for SFTP or FTPS, to handle the data transfer using the AS2 protocol. AWS Transfer for SFTP and FTPS provide fully managed, highly available SFTP and FTPS servers in the AWS Cloud.

Not sure about Lamdba tho

upvoted 2 times

😑 🌡 Efren 1 year ago

Maybe yes

The Lambda authorizer authenticates the token with the third-party identity provider. upvoted 1 times

😑 🛔 cloudenthusiast 1 year ago

Also from ChatGPT

AWS Transfer Family supports multiple protocols, including AS2, and can be used for data transfer. By utilizing AWS Transfer Family, the company can integrate its own IdP authentication by creating an AWS Lambda function.

Both options D and C are valid solutions for the given requirements. The choice between them would depend on additional factors such as specific preferences, existing infrastructure, and overall architectural considerations. upvoted 2 times

Which additional combination of AWS services will meet these requirements with the LEAST administrative effort? (Choose two.)

- A. Amazon EC2
- B. AWS Lambda
- C. Amazon RDS
- D. Amazon DynamoDB
- E. Amazon Elastic Kubernetes Services (Amazon EKS)

Correct Answer: BC		
Community vote distribution		
BC (86%)	14%	

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: BC

"The application will require that the data is in a relational format" so DynamoDB is out. RDS is the choice. Lambda is severless. upvoted 14 times

😑 👗 smurfing2k17 (Most Recent 🕐 1 month, 1 week ago

Why cant it be AC? We don't know the time of job runs right? upvoted 1 times

😑 💄 TariqKipkemei 12 months ago

Selected Answer: BC

AWS Lambda and Amazon RDS upvoted 2 times

😑 📥 handsonlabsaws 1 year ago

Selected Answer: AC

"2 GB of storage for its COMPUTATION resources" the maximum for Lambda is 512MB. upvoted 3 times

😑 💄 PLN6302 9 months, 3 weeks ago

Lambda now supports upto 10GB of memory upvoted 5 times

😑 👗 Kp88 10 months, 2 weeks ago

I thought the same but seems like you can go all the way to 10gb. 512mb is the free tier https://docs.aws.amazon.com/lambda/latest/dg/configuration-function-common.html#configuration-ephemeral-storage upvoted 2 times

😑 💄 r3mo 1 year ago

At first I was thinking the same. But the computation memery for the lambda function is 1gb not 2gb. Hence. if you go to basic settings when you create the lambda function you can sellect a in the memori settings the 1024 MB (1Gb) and that solve the problem.

upvoted 1 times

😑 🌡 Efren 1 year ago

Selected Answer: BC

Relational Data RDS and computing for Lambda upvoted 3 times

😑 🌡 nosense 1 year ago

bc for me

upvoted 2 times

Question #459

A company uses AWS Organizations to run workloads within multiple AWS accounts. A tagging policy adds department tags to AWS resources when the company creates tags.

An accounting team needs to determine spending on Amazon EC2 consumption. The accounting team must determine which departments are responsible for the costs regardless of AWS account. The accounting team has access to AWS Cost Explorer for all AWS accounts within the organization and needs to access all reports from Cost Explorer.

Which solution meets these requirements in the MOST operationally efficient way?

A. From the Organizations management account billing console, activate a user-defined cost allocation tag named department. Create one cost report in Cost Explorer grouping by tag name, and filter by EC2.

B. From the Organizations management account billing console, activate an AWS-defined cost allocation tag named department. Create one cost report in Cost Explorer grouping by tag name, and filter by EC2.

C. From the Organizations member account billing console, activate a user-defined cost allocation tag named department. Create one cost report in Cost Explorer grouping by the tag name, and filter by EC2.

D. From the Organizations member account billing console, activate an AWS-defined cost allocation tag named department. Create one cost report in Cost Explorer grouping by tag name, and filter by EC2.

Correct Answer: C

Community vote distribution

A (100%)

😑 🛔 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: A

By activating a user-defined cost allocation tag named "department" and creating a cost report in Cost Explorer that groups by the tag name and filters by EC2, the accounting team will be able to track and attribute costs to specific departments across all AWS accounts within the organization This approach allows for consistent cost allocation and reporting regardless of the AWS account structure. upvoted 7 times

😑 🖀 awsgeek75 [Most Recent 🕗] 5 months ago

Selected Answer: A

Management not user. upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

From the Organizations management account billing console, activate a user-defined cost allocation tag named department. Create one cost report in Cost Explorer grouping by tag name, and filter by EC2.

upvoted 4 times

😑 🏝 TariqKipkemei 12 months ago

Selected Answer: A

From the Organizations management account billing console, activate a user-defined cost allocation tag named department. Create one cost report in Cost Explorer grouping by tag name, and filter by EC2.

upvoted 2 times

😑 💄 luisgu 1 year ago

Selected Answer: A

https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/custom-tags.html upvoted 4 times

😑 💄 hiroohiroo 1 year ago

Selected Answer: A

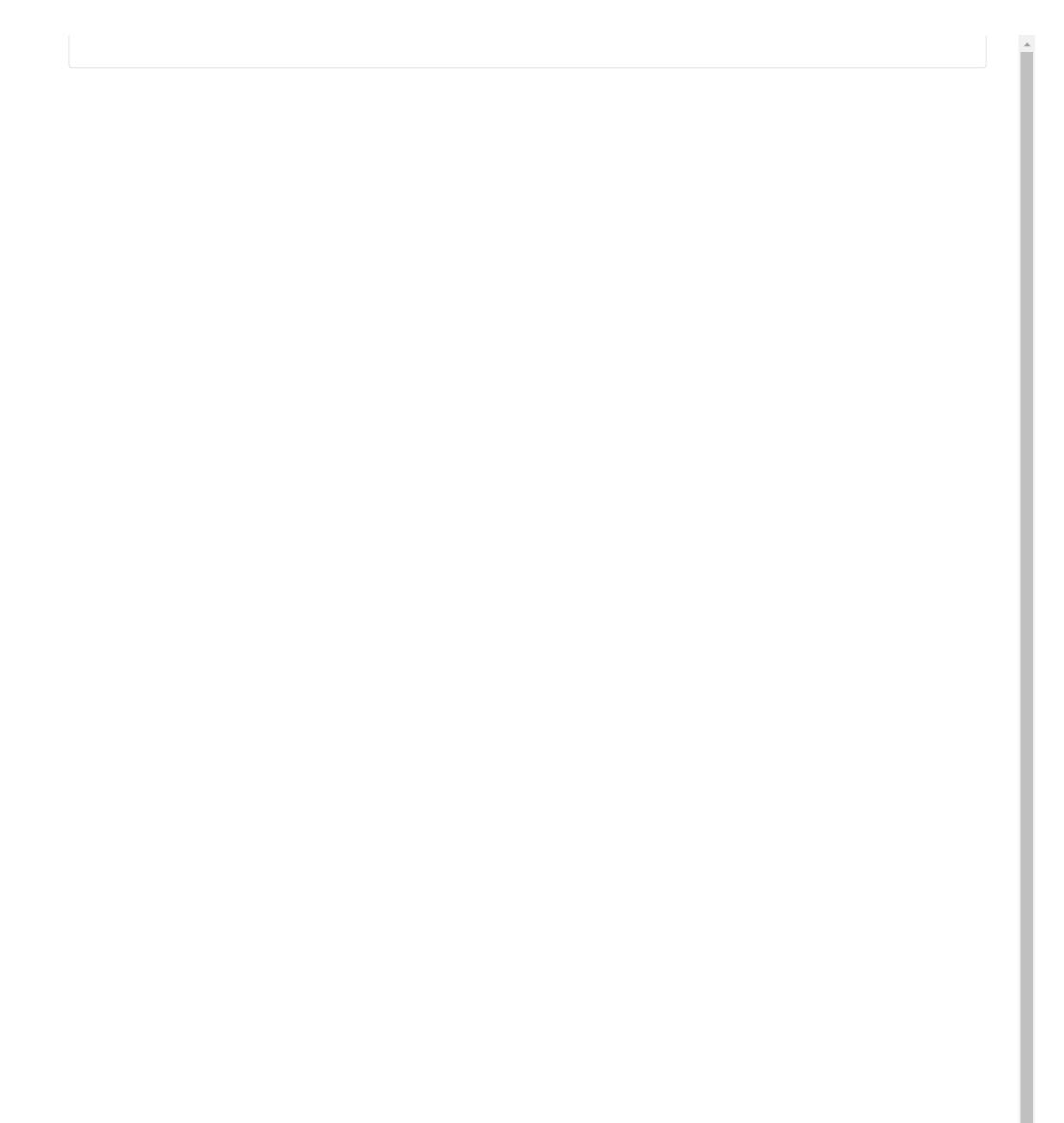
https://docs.aws.amazon.com/ja_jp/awsaccountbilling/latest/aboutv2/activating-tags.html upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: A

a for me

upvoted 2 times



A company wants to securely exchange data between its software as a service (SaaS) application Salesforce account and Amazon S3. The company must encrypt the data at rest by using AWS Key Management Service (AWS KMS) customer managed keys (CMKs). The company must also encrypt the data in transit. The company has enabled API access for the Salesforce account.

- A. Create AWS Lambda functions to transfer the data securely from Salesforce to Amazon S3.
- B. Create an AWS Step Functions workflow. Define the task to transfer the data securely from Salesforce to Amazon S3.
- C. Create Amazon AppFlow flows to transfer the data securely from Salesforce to Amazon S3.
- D. Create a custom connector for Salesforce to transfer the data securely from Salesforce to Amazon S3.

Correct Answer: C

Community vote distribution

C (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

Amazon AppFlow is a fully managed integration service that allows you to securely transfer data between different SaaS applications and AWS services. It provides built-in encryption options and supports encryption in transit using SSL/TLS protocols. With AppFlow, you can configure the data transfer flow from Salesforce to Amazon S3, ensuring data encryption at rest by utilizing AWS KMS CMKs. upvoted 14 times

😑 👗 Guru4Cloud (Highly Voted 📦) 9 months, 3 weeks ago

Selected Answer: C

° Amazon AppFlow can securely transfer data between Salesforce and Amazon S3.

° AppFlow supports encrypting data at rest in S3 using KMS CMKs.

° AppFlow supports encrypting data in transit using HTTPS/TLS.

° AppFlow provides built-in support and templates for Salesforce and S3, requiring less custom configuration than solutions like Lambda, Step Functions, or custom connectors.

° So Amazon AppFlow is the easiest way to meet all the requirements of securely transferring data between Salesforce and S3 with encryption at rest and in transit.

upvoted 7 times

😑 🌲 zinabu (Most Recent 🕐) 2 months ago

SAAS=aws appflow upvoted 2 times

😑 🌲 cvoiceip 5 months ago

Ans : C Salesforce -----> Amazon AppFlow ----> S3 upvoted 2 times

😑 🌲 hsinchang 10 months, 3 weeks ago

securely transfer data between Software-as-a-Service (SaaS) applications and AWS -> AppFlow upvoted 2 times

😑 🌲 TariqKipkemei 12 months ago

Selected Answer: C

With Amazon AppFlow automate bi-directional data flows between SaaS applications and AWS services in just a few clicks

upvoted 1 times

😑 💄 DrWatson 1 year ago

Selected Answer: C

https://docs.aws.amazon.com/appflow/latest/userguide/what-is-appflow.html upvoted 1 times

😑 🌲 Abrar2022 1 year ago

All you need to know is that AWS AppFlow securely transfers data between different SaaS applications and AWS services upvoted 2 times

😑 🌲 hiroohiroo 1 year ago

Selected Answer: C

https://docs.aws.amazon.com/appflow/latest/userguide/salesforce.html upvoted 3 times

😑 🌲 Efren 1 year ago

Selected Answer: C

Saas with another service, AppFlow upvoted 1 times

Which solution will meet these requirements?

A. Use AWS Global Accelerator to create an accelerator. Create an Application Load Balancer (ALB) behind an accelerator endpoint that uses Global Accelerator integration and listening on the TCP and UDP ports. Update the Auto Scaling group to register instances on the ALB.

B. Use AWS Global Accelerator to create an accelerator. Create a Network Load Balancer (NLB) behind an accelerator endpoint that uses Global Accelerator integration and listening on the TCP and UDP ports. Update the Auto Scaling group to register instances on the NLB.

C. Create an Amazon CloudFront content delivery network (CDN) endpoint. Create a Network Load Balancer (NLB) behind the endpoint and listening on the TCP and UDP ports. Update the Auto Scaling group to register instances on the NLB. Update CloudFront to use the NLB as the origin.

D. Create an Amazon CloudFront content delivery network (CDN) endpoint. Create an Application Load Balancer (ALB) behind the endpoint and listening on the TCP and UDP ports. Update the Auto Scaling group to register instances on the ALB. Update CloudFront to use the ALB as the origin.

Correct Answer: *A*

Community vote distribution

B (100%)

😑 💄 sandordini 1 month, 3 weeks ago

Selected Answer: B

Mobile gaming, UDP > AWS Global Accelarator + NLB upvoted 2 times

😑 🌲 zinabu 2 months ago

TCP/UDP/IP based communication with server =NLB for global low latency communication if IP/udp/tCP based = aws global accelarator upvoted 3 times

😑 🌲 Mikado211 5 months, 3 weeks ago

Selected Answer: B

UDP == NLB NLB can't be used with Cloudfront, so we have to play with AWS Global accelerator upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Use AWS Global Accelerator to create an accelerator. Create a Network Load Balancer (NLB) behind an accelerator endpoint that uses Global Accelerator integration and listening on the TCP and UDP ports. Update the Auto Scaling group to register instances on the NLB upvoted 3 times

😑 🆀 TariqKipkemei 11 months, 4 weeks ago

Selected Answer: B

TCP and UDP = global accelerator and Network Load Balancer upvoted 2 times

😑 🏝 antropaws 1 year ago

Selected Answer: B

Clearly B. upvoted 1 times

😑 🌲 eddie5049 1 year ago

Selected Answer: B

NLB + Accelerator

upvoted 3 times

😑 🌡 hiroohiroo 1 year ago

Selected Answer: B

AWS Global Accelerator+NLB upvoted 3 times

😑 🌡 Efren 1 year ago

Selected Answer: B

UDP, Global Accelerator plus NLB upvoted 1 times

😑 🌡 nosense 1 year ago

Selected Answer: B

AWS Global Accelerator is a better solution for the mobile gaming app than CloudFront upvoted 3 times

A company has an application that processes customer orders. The company hosts the application on an Amazon EC2 instance that saves the orders to an Amazon Aurora database. Occasionally when traffic is high the workload does not process orders fast enough.

What should a solutions architect do to write the orders reliably to the database as quickly as possible?

A. Increase the instance size of the EC2 instance when traffic is high. Write orders to Amazon Simple Notification Service (Amazon SNS). Subscribe the database endpoint to the SNS topic.

B. Write orders to an Amazon Simple Queue Service (Amazon SQS) queue. Use EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SQS queue and process orders into the database.

C. Write orders to Amazon Simple Notification Service (Amazon SNS). Subscribe the database endpoint to the SNS topic. Use EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SNS topic.

D. Write orders to an Amazon Simple Queue Service (Amazon SQS) queue when the EC2 instance reaches CPU threshold limits. Use scheduled scaling of EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SQS queue and process orders into the database.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: B

By decoupling the write operation from the processing operation using SQS, you ensure that the orders are reliably stored in the queue, regardles: of the processing capacity of the EC2 instances. This allows the processing to be performed at a scalable rate based on the available EC2 instances, improving the overall reliability and speed of order processing.

upvoted 10 times

😑 🌲 omarshaban (Highly Voted 🖬) 4 months, 3 weeks ago

IN MY EXAM upvoted 6 times

😑 🛔 Guru4Cloud Most Recent 🕐 9 months, 3 weeks ago

Selected Answer: B

Decoupling the order processing from the application using Amazon SQS and leveraging Auto Scaling to handle the processing of orders based of the workload in the SQS queue is indeed the most efficient and scalable approach. This architecture addresses both reliability and performance concerns during traffic spikes.

upvoted 3 times

😑 💄 TariqKipkemei 11 months, 4 weeks ago

Selected Answer: B

Write orders to an Amazon Simple Queue Service (Amazon SQS) queue. Use EC2 instances in an Auto Scaling group behind an Application Load Balancer to read from the SQS queue and process orders into the database. upvoted 2 times

□ ▲ antropaws 1 year ago

Selected Answer: B

100% B.

upvoted 2 times

omoakin 1 year ago BBBBBBBBB upvoted 2 times An IoT company is releasing a mattress that has sensors to collect data about a user's sleep. The sensors will send data to an Amazon S3 bucket. The sensors collect approximately 2 MB of data every night for each mattress. The company must process and summarize the data for each mattress. The results need to be available as soon as possible. Data processing will require 1 GB of memory and will finish within 30 seconds.

Which solution will meet these requirements MOST cost-effectively?

A. Use AWS Glue with a Scala job

B. Use Amazon EMR with an Apache Spark script

C. Use AWS Lambda with a Python script

D. Use AWS Glue with a PySpark job

Correct Answer: *C*

Community vote distribution

C (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

AWS Lambda charges you based on the number of invocations and the execution time of your function. Since the data processing job is relatively small (2 MB of data), Lambda is a cost-effective choice. You only pay for the actual usage without the need to provision and maintain infrastructure upvoted 6 times

😑 🌲 joechen2023 11 months, 4 weeks ago

but the question states "Data processing will require 1 GB of memory and will finish within 30 seconds." so it can't be C as Lambda support maximum 512M

upvoted 1 times

😑 💄 nilandd44gg 10 months, 2 weeks ago

C is valid. Lambda quotas: Memory - 128 MB to 10,240 MB, in 1-MB increments.

Note: Lambda allocates CPU power in proportion to the amount of memory configured. You can increase or decrease the memory and CPU power allocated to your function using the Memory (MB) setting. At 1,769 MB, a function has the equivalent of one vCPU.

Function timeout 900 seconds (15 minutes)

4 KB, for all environment variables associated with the function, in aggregate https://docs.aws.amazon.com/lambda/latest/dg/gettingstarted-limits.html upvoted 2 times

😑 🆀 BillaRanga 4 months ago

Lambda can support upto 10 GB, But 512M is under free tier upvoted 2 times

😑 👗 Chiquitabandita (Most Recent 🕗) 7 months, 1 week ago

I understand C is a common answer "throw Lambda" seems to be a common theme for questions that need processing under 15 minutes for the test. but in reality, can the other solutions be viable options as well?

upvoted 3 times

😑 🌲 Mikado211 6 months ago

That's the point here, technically all the options are good and will work, but since we are on a small amount of data Lambda will be the cheapes one, usually Glue or EMR will be kept for a big amount of data.

Here is a topic where people did a comparison in comments : https://www.reddit.com/r/aws/comments/9umxv1/aws_glue_vs_lambda_costbenefit/ upvoted 2 times

E **L** TariqKipkemei 7 months, 1 week ago

Selected Answer: C

"processing will require 1 GB of memory and will finish within 30 seconds", perfect for AWS Lambda. upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

The data processing is lightweight, only requiring 1 GB memory and finishing in under 30 seconds. Lambda is designed for short, transient workloads like this.

Lambda scales automatically, invoking the function as needed when new data arrives. No servers to manage.

Lambda has a very low cost. You only pay for the compute time used to run the function, billed in 100ms increments. Much cheaper than provisioning EMR or Glue.

Processing can begin as soon as new data hits the S3 bucket by triggering the Lambda function. Provides low latency. upvoted 4 times

😑 🏝 antropaws 1 year ago

Selected Answer: C

I reckon C, but I would consider other well founded options. upvoted 1 times

😑 🌲 nosense 1 year ago

Selected Answer: C

c anyway the MOST cost-effectively upvoted 2 times

A company hosts an online shopping application that stores all orders in an Amazon RDS for PostgreSQL Single-AZ DB instance. Management wants to eliminate single points of failure and has asked a solutions architect to recommend an approach to minimize database downtime without requiring any changes to the application code.

Which solution meets these requirements?

A. Convert the existing database instance to a Multi-AZ deployment by modifying the database instance and specifying the Multi-AZ option.

B. Create a new RDS Multi-AZ deployment. Take a snapshot of the current RDS instance and restore the new Multi-AZ deployment with the snapshot.

C. Create a read-only replica of the PostgreSQL database in another Availability Zone. Use Amazon Route 53 weighted record sets to distribute requests across the databases.

D. Place the RDS for PostgreSQL database in an Amazon EC2 Auto Scaling group with a minimum group size of two. Use Amazon Route 53 weighted record sets to distribute requests across instances.

Correct Answer: A

Community vote distribution

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: A

A is correct but reason need to be clarified:

A (100%)

https://aws.amazon.com/blogs/database/best-practices-for-converting-a-single-az-amazon-rds-instance-to-a-multi-az-instance/

The instance doesn't automatically convert to Multi-AZ immediately. By default it will convert at next maintenance window but you can convert it immediately. Compared to B this is much better. CD are too many changes overall so unsuitable. upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

A. Convert the existing database instance to a Multi-AZ deployment by modifying the database instance and specifying the Multi-AZ option upvoted 4 times

E **L** TariqKipkemei 11 months, 3 weeks ago

Selected Answer: A

Eliminate single points of failure = Multi-AZ deployment upvoted 4 times

😑 🌲 antropaws 1 year ago

Selected Answer: A

A) https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZSingleStandby.html#Concepts.MultiAZ.Migrating upvoted 1 times

😑 🏝 Abrar2022 1 year ago

"minimize database downtime" so why create a new DB just modify the existing one so no time is wasted. upvoted 4 times

😑 💄 cloudenthusiast 1 year ago

Selected Answer: A

Compared to other solutions that involve creating new instances, restoring snapshots, or setting up replication manually, converting to a Multi-AZ deployment is a simpler and more streamlined approach with lower overhead.

Overall, option A offers a cost-effective and efficient way to minimize database downtime without requiring significant changes or additional complexities.

upvoted 2 times

😑 🌲 Efren 1 year ago

A for HA, but also read replica can convert itself to master if the master is down... so not sure if C? upvoted 1 times

😑 🌲 Efren 1 year ago

Sorry, the Route 53 doesnt make sense to sent requests to RR , what if is a write? upvoted 1 times

	nosense	1	year	ago
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Selected Answer: A

i guess aa upvoted 3 times

Which solution will meet these requirements?

A. Use General Purpose SSD (gp3) EBS volumes with Amazon Elastic Block Store (Amazon EBS) Multi-Attach

B. Use Throughput Optimized HDD (st1) EBS volumes with Amazon Elastic Block Store (Amazon EBS) Multi-Attach

C. Use Provisioned IOPS SSD (io2) EBS volumes with Amazon Elastic Block Store (Amazon EBS) Multi-Attach

D. Use General Purpose SSD (gp2) EBS volumes with Amazon Elastic Block Store (Amazon EBS) Multi-Attach

Correct Answer: C		
Community vote distribution	C (94%)	3%

😑 💄 potomac (Highly Voted 🖬 7 months, 1 week ago

Selected Answer: C

Multi-Attach is supported exclusively on Provisioned IOPS SSD (io1 and io2) volumes. upvoted 8 times

😑 🛔 awsgeek75 [Highly Voted 🖬] 4 months, 3 weeks ago

Selected Answer: C

hdd<gp2<gp3<io2 upvoted 5 times

😑 💄 master9 (Most Recent 🕗) 5 months, 2 weeks ago

Selected Answer: C

AWS IO2 does support Multi-Attach. Multi-Attach allows you to share access to an EBS data volume between up to 16 Nitro-based EC2 instances within the same Availability Zone. Each attached instance has full read and write permission to the shared volume. This feature is intended to make it easier to achieve higher application availability for customers that want to deploy applications that manage storage consistency from multiple writers in shared storage infrastructure. However, please note that Multi-Attach on io2 is available in certain regions only.

upvoted 5 times

🖃 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C. Use Provisioned IOPS SSD (io2) EBS volumes with Amazon Elastic Block Store (Amazon EBS) Multi-Attach upvoted 4 times

😑 💄 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: C

Multi-Attach is supported exclusively on Provisioned IOPS SSD (io1 and io2) volumes.

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes-

multi.html#:~:text=Multi%2DAttach%20is%20supported%20exclusively%20on%20Provisioned%20IOPS%20SSD%20(io1%20and%20io2)%20volum

s.

upvoted 2 times

😑 👗 Axeashes 12 months ago

Multi-Attach is supported exclusively on Provisioned IOPS SSD (io1 and io2) volumes. https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes-multi.html upvoted 2 times

😑 🌡 Uzi_m 1 year ago

The correct answer is A. Currently, Multi Attach EBS feature is supported by gp3 volumes also. Multi-Attach is supported for certain EBS volume types, including io1, io2, gp3, st1, and sc1 volumes. upvoted 2 times

🖃 🎍 Kp88 10 months, 2 weeks ago

No, Read this --> https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes-multi.html#considerations upvoted 3 times

E **AshishRocks** 1 year ago

Answer should be D upvoted 1 times

😑 👗 Kp88 10 months, 2 weeks ago

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes-multi.html#considerations upvoted 1 times

😑 🌲 AshishRocks 1 year ago

By ChatGPT - Create General Purpose SSD (gp2) volumes: Provision multiple gp2 volumes with the required capacity for your application. upvoted 1 times

😑 👗 Kp88 10 months, 2 weeks ago

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes-multi.html#considerations upvoted 1 times

😑 🌲 AshishRocks 1 year ago

Multi-Attach does not support Provisioned IOPS SSD (io2) volumes. Multi-Attach is currently available only for General Purpose SSD (gp2), Throughput Optimized HDD (st1), and Cold HDD (sc1) EBS volumes. upvoted 1 times

😑 📥 Abrar2022 1 year ago

Multi-Attach is supported exclusively on Provisioned IOPS SSD (io1 or io2) volumes. upvoted 1 times

😑 💄 elmogy 1 year ago

Selected Answer: C

only io1/io2 supports Multi-Attach upvoted 2 times

😑 💄 Uzi_m 1 year ago

Multi-Attach is supported for certain EBS volume types, including io1, io2, gp3, st1, and sc1 volumes. upvoted 1 times

😑 👗 Kp88 10 months, 2 weeks ago

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes-multi.html#considerations upvoted 1 times

😑 🌲 examtopictempacc 1 year ago

Selected Answer: C

only io1/io2 supports Multi-Attach upvoted 2 times

😑 💄 Vlad 1 year ago

Selected Answer: A

Option D suggests using General Purpose SSD (gp2) EBS volumes with Amazon EBS Multi-Attach. While gp2 volumes support multi-attach, gp3 volumes offer a more cost-effective solution with enhanced performance characteristics.

upvoted 1 times

😑 💄 Vlad 1 year ago

I'm sorry :

Multi-Attach enabled volumes can be attached to up to 16 instances built on the Nitro System that are in the same Availability Zone. Multi-Attach is supported exclusively on Provisioned IOPS SSD (io1 or io2) volumes. upvoted 2 times



The answer is C:

upvoted 1 times

😑 🛔 EA100 1 year ago

Answer - C

C. Use Provisioned IOPS SSD (io2) EBS volumes with Amazon Elastic Block Store (Amazon EBS) Multi-Attach.

While both option C and option D can support Amazon EBS Multi-Attach, using Provisioned IOPS SSD (io2) EBS volumes provides higher performance and lower latency compared to General Purpose SSD (gp2) volumes. This makes io2 volumes better suited for demanding and mission-critical applications where performance is crucial.

If the goal is to achieve higher application availability and ensure optimal performance, using Provisioned IOPS SSD (io2) EBS volumes with Multi-Attach will provide the best results.

upvoted 1 times

😑 🛔 nosense 1 year ago

Selected Answer: C

c is right

Amazon EBS Multi-Attach enables you to attach a single Provisioned IOPS SSD (io1 or io2) volume to multiple instances that are in the same

Availability Zone. https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volumes-multi.html nothing about gp upvoted 2 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: D

Given that the scenario does not mention any specific requirements for high-performance or specific IOPS needs, using General Purpose SSD (gp2 EBS volumes with Amazon EBS Multi-Attach (option D) is typically the more cost-effective and suitable choice. General Purpose SSD (gp2) volumes provide a good balance of performance and cost, making them well-suited for general-purpose workloads. upvoted 1 times

😑 💄 y0 1 year ago

gp2 - IOPS 16000 Nitro - IOPS 64000 - supported by io2. C is correct upvoted 1 times

😑 🌡 omoakin 1 year ago

l agree

General Purpose SSD (gp2) volumes are the most common volume type. They were designed to be a cost-effective storage option for a wide variety of workloads. Gp2 volumes cover system volumes, dev and test environments, and various low-latency apps. upvoted 1 times

😑 💄 elmogy 1 year ago

the question has not mentioned anything about cost-effective solution. only io1/io2 supports Multi-Attach

plus fyi, gp3 is the one gives a good balance of performance and cost. so gp2 is wrong in every way upvoted 1 times

A company designed a stateless two-tier application that uses Amazon EC2 in a single Availability Zone and an Amazon RDS Multi-AZ DB instance. New company management wants to ensure the application is highly available.

What should a solutions architect do to meet this requirement?

- A. Configure the application to use Multi-AZ EC2 Auto Scaling and create an Application Load Balancer
- B. Configure the application to take snapshots of the EC2 instances and send them to a different AWS Region
- C. Configure the application to use Amazon Route 53 latency-based routing to feed requests to the application
- D. Configure Amazon Route 53 rules to handle incoming requests and create a Multi-AZ Application Load Balancer

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 nosense (Highly Voted 🖬) 1 year ago

Selected Answer: A

it's A upvoted 5 times

😑 🛔 Guru4Cloud (Most Recent 🕐) 9 months, 3 weeks ago

Selected Answer: A

A. Configure the application to use Multi-AZ EC2 Auto Scaling and create an Application Load Balancer upvoted 1 times

😑 💄 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: A

Highly available = Multi-AZ EC2 Auto Scaling and Application Load Balancer. upvoted 2 times

😑 📥 antropaws 1 year ago

Selected Answer: A

Most likely A. upvoted 1 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: A

By combining Multi-AZ EC2 Auto Scaling and an Application Load Balancer, you achieve high availability for the EC2 instances hosting your stateless two-tier application.

upvoted 4 times

A. Turn on discount sharing from the Billing Preferences section of the account console in the member account that purchased the Compute Savings Plan.

B. Turn on discount sharing from the Billing Preferences section of the account console in the company's Organizations management account.

C. Migrate additional compute workloads from another AWS account to the account that has the Compute Savings Plan.

D. Sell the excess Savings Plan commitment in the Reserved Instance Marketplace.

Correct Answer: B		
Community vote distribution		
B (68%)	D (32%)	

😑 👗 norris81 (Highly Voted 🖬) 1 year ago

Selected Answer: B

https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ri-turn-off.html

Sign in to the AWS Management Console and open the AWS Billing console at https://console.aws.amazon.com/billing/

Note

Ensure you're logged in to the management account of your AWS Organizations. upvoted 9 times

😑 💄 Stranko (Most Recent 🕗) 3 months, 2 weeks ago

Selected Answer: D

I'd go with D, due to "The company uses less than 50% of its purchased compute power". Like, why are you sharing it between other accounts of the company, if the company itself doesn't need it? If you provisioned too much you can sell the overprovisioned capacity on the market. I'd understand B if it was about the account using about 50% of the plan and other accounts running similar workloads, but no such thing is stated. upvoted 1 times

🖃 🎍 NayeraB 3 months, 3 weeks ago

Option E, Take it out of the salary of the guy who made the decision to purchase an entire compute plan without studying the company's needs. upvoted 2 times

🖃 🎍 mr123dd 5 months, 1 week ago

Selected Answer: D

in the question, it does not clarify then number of accounts the company has, if they only has one account, I think it is D, upvoted 1 times

🖃 🌡 Mujahid_1 5 months, 1 week ago

what are you guys doing this section is for discussion not for copy paste upvoted 2 times



E **a** pentium**75** 5 months, 1 week ago

Selected Answer: B

B, it's a generic Compute Savings Plan that can be used for compute workloads in the other accounts.

A doesn't work, discount sharing must be enabled for all accounts (at least for those that provide and share the discounts).

C is not possible, there's a reason why the workloads are in different accounts.

D would be a last resort if there wouldn't be any other workloads in the own organization, but here are. upvoted 3 times

😑 💄 baba365 8 months, 2 weeks ago

So what exactly is the question? upvoted 4 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

It's an English test on complete the sentence... upvoted 1 times

😑 🎍 pentium75 5 months, 1 week ago

What to do upvoted 1 times

🖃 🎍 michalf84 8 months, 3 weeks ago

Selected Answer: D

I saw similar question in older exam one can sell on the market unused capacity upvoted 1 times

🖃 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

B. Turn on discount sharing from the Billing Preferences section of the account console in the company's Organizations management account upvoted 2 times

😑 💄 Lx016 9 months, 2 weeks ago

Bro, no need to copy paste the answer that is already written. Need an explanation, I see that you just copy pasting the potential answers without any explanation in each discussion.

upvoted 25 times

😑 🌲 live_reply_developers 11 months, 3 weeks ago

Selected Answer: D

"For example, you might want to sell Reserved Instances after moving instances to a new AWS Region, changing to a new instance type, ending projects before the term expiration, when your business needs change, or if you have unneeded capacity."

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ri-market-general.html

upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

D would make sense if the company wouldn't have other accounts with workloads. Or if it would be EC2 Savings Plans that would not match th instance types in other accounts. But it's a generic Compute Savings Plan that surely can be used in another account. Thus B. upvoted 1 times

🖃 📥 awsgeek75 4 months, 3 weeks ago

I am also confused between B and D as the last part of the question "The company uses less than 50% of its purchased compute power." could imply that the whole company (not just this member account) only uses 50% of the computer power. If they said the member account only uses 50% then it would be clear cut B.

upvoted 1 times

😑 👗 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: B

answer is B.

https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ri-turnoff.html#:~:text=choose%20Save.-,Turning%20on%20shared%20reserved%20instances%20and%20Savings%20Plans%20discounts,-You%20can%20use upvoted 1 times

😑 🏝 Felix_br 1 year ago

Selected Answer: D

The company uses less than 50% of its purchased compute power. For this reason i believe D is the best solution : https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ri-market-general.html upvoted 3 times

😑 🌲 Abrar2022 1 year ago

The company Organization's management account can turn on/off shared reserved instances. upvoted 1 times

😑 🌡 cloudenthusiast 1 year ago

Selected Answer: B

To summarize, option C (Migrate additional compute workloads from another AWS account to the account that has the Compute Savings Plan) is a valid solution to address the underutilization of the Compute Savings Plan. However, it involves workload migration and may require careful planning and coordination. Consider the feasibility and impact of migrating workloads before implementing this solution. upvoted 2 times

😑 🛔 EA100 1 year ago

Answer - C

If a member account within AWS Organizations has purchased a Compute Savings Plan

upvoted 1 times

EA100 1 year ago

Asnwer - C

upvoted 1 times

A company is developing a microservices application that will provide a search catalog for customers. The company must use REST APIs to present the frontend of the application to users. The REST APIs must access the backend services that the company hosts in containers in private VPC subnets.

Which solution will meet these requirements?

A. Design a WebSocket API by using Amazon API Gateway. Host the application in Amazon Elastic Container Service (Amazon ECS) in a private subnet. Create a private VPC link for API Gateway to access Amazon ECS.

B. Design a REST API by using Amazon API Gateway. Host the application in Amazon Elastic Container Service (Amazon ECS) in a private subnet. Create a private VPC link for API Gateway to access Amazon ECS.

C. Design a WebSocket API by using Amazon API Gateway. Host the application in Amazon Elastic Container Service (Amazon ECS) in a private subnet. Create a security group for API Gateway to access Amazon ECS.

D. Design a REST API by using Amazon API Gateway. Host the application in Amazon Elastic Container Service (Amazon ECS) in a private subnet. Create a security group for API Gateway to access Amazon ECS.

Correct Answer: *B*

Community vote distribution

B (100%)

E & cloudenthusiast (Highly Voted 🖬 1 year ago

Selected Answer: B

REST API with Amazon API Gateway: REST APIs are the appropriate choice for providing the frontend of the microservices application. Amazon API Gateway allows you to design, deploy, and manage REST APIs at scale.

Amazon ECS in a Private Subnet: Hosting the application in Amazon ECS in a private subnet ensures that the containers are securely deployed within the VPC and not directly exposed to the public internet.

Private VPC Link: To enable the REST API in API Gateway to access the backend services hosted in Amazon ECS, you can create a private VPC link. This establishes a private network connection between the API Gateway and ECS containers, allowing secure communication without traversing the public internet.

upvoted 13 times

😑 🆀 MNotABot (Highly Voted 🖬) 11 months, 1 week ago

Question itself says: "The company must use REST APIs", hence WebSocket APIs are not applicable and such options are eliminated straight away. upvoted 7 times

😑 🛔 awsgeek75 (Most Recent 🕐) 4 months, 3 weeks ago

Selected Answer: B

AC are wrong as they are not REST API

D, you don't make SG for API Gateway to EC2, you have to make a VPC Link. More details at https://docs.aws.amazon.com/apigateway/latest/developerguide/http-api-vpc-links.html upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

To allow the REST APIs to securely access the backend, a private VPC link should be created from API Gateway to the ECS containers. A private VPC

link provides private connectivity between API Gateway and the VPC without using public IP addresses or requiring an internet gateway/NAT upvoted 3 times

⊟ ▲ Axeashes 11 months, 3 weeks ago

Selected Answer: B

https://docs.aws.amazon.com/apigateway/latest/developerguide/http-api-private-integration.html upvoted 1 times

😑 🌡 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: B

A VPC link is a resource in Amazon API Gateway that allows for connecting API routes to private resources inside a VPC. upvoted 2 times

😑 🌲 samehpalass 11 months, 4 weeks ago

B is the right choice upvoted 1 times

😑 💄 Yadav_Sanjay 12 months ago

Why Not D upvoted 3 times

😑 💄 potomac 7 months, 1 week ago

A security group acts as a firewall for associated EC2 instances, controlling both inbound and outbound traffic at the instance level. upvoted 1 times

😑 🌲 nosense 1 year ago

Selected Answer: B

b is right, bcs vpc link provided security connection upvoted 3 times

Question #469

Topic 1

A company stores raw collected data in an Amazon S3 bucket. The data is used for several types of analytics on behalf of the company's customers. The type of analytics requested determines the access pattern on the S3 objects.

The company cannot predict or control the access pattern. The company wants to reduce its S3 costs.

Which solution will meet these requirements?

A. Use S3 replication to transition infrequently accessed objects to S3 Standard-Infrequent Access (S3 Standard-IA)

B. Use S3 Lifecycle rules to transition objects from S3 Standard to Standard-Infrequent Access (S3 Standard-IA)

C. Use S3 Lifecycle rules to transition objects from S3 Standard to S3 Intelligent-Tiering

D. Use S3 Inventory to identify and transition objects that have not been accessed from S3 Standard to S3 Intelligent-Tiering

Correct Answer: *C*

Community vote distribution

C (100%)

😑 👗 nosense (Highly Voted 🖬) 1 year ago

Selected Answer: C

S3 Inventory can't to move files to another class upvoted 7 times

😑 🌲 Murtadhaceit Most Recent 🕗 6 months ago

Selected Answer: C

Unpredictable access pattern = Intelligent-Tiering. upvoted 4 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C. Use S3 Lifecycle rules to transition objects from S3 Standard to S3 Intelligent-Tiering upvoted 3 times

😑 🌢 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: C

Cannot predict access pattern = S3 Intelligent-Tiering. upvoted 3 times

😑 💄 Efren 1 year ago

Selected Answer: C

Not known patterns, Intelligent Tier upvoted 3 times A company has applications hosted on Amazon EC2 instances with IPv6 addresses. The applications must initiate communications with other external applications using the internet. However the company's security policy states that any external service cannot initiate a connection to the EC2 instances.

What should a solutions architect recommend to resolve this issue?

- A. Create a NAT gateway and make it the destination of the subnet's route table
- B. Create an internet gateway and make it the destination of the subnet's route table
- C. Create a virtual private gateway and make it the destination of the subnet's route table
- D. Create an egress-only internet gateway and make it the destination of the subnet's route table

Correct Answer: D			
Community vote distrib	ution		
	D (100%)		
😑 💄 wRhIH (Highly Voted	11 months, 3 weeks ago		
For exam,	—		
egress-only internet	: gateway: IPv6		
NAT gateway: IPv4 upvoted 43 times			
😑 💄 b82faaf 6 mon	ths ago		
This is very helpf	ul, thanks.		
upvoted 2 times			

😑 💄 RDM10 8 months, 3 weeks ago

thanks a lot upvoted 3 times

😑 🛔 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: D

An egress-only internet gateway (EIGW) is specifically designed for IPv6-only VPCs and provides outbound IPv6 internet access while blocking inbound IPv6 traffic. It satisfies the requirement of preventing external services from initiating connections to the EC2 instances while allowing the instances to initiate outbound communications.

upvoted 8 times

😑 🌲 cloudenthusiast 1 year ago

Since the company's security policy explicitly states that external services cannot initiate connections to the EC2 instances, using a NAT gateway (option A) would not be suitable. A NAT gateway allows outbound connections from private subnets to the internet, but it does not restrict inbound connections from external sources.

upvoted 5 times

😑 🌲 pentium75 5 months, 1 week ago

"A NAT gateway ... does not restrict inbound connections from external sources." Actually it does, but only for IPv4. upvoted 1 times

😑 🌲 [Removed] 1 year ago

Enable outbound IPv6 traffic using an egress-only internet gateway https://docs.aws.amazon.com/vpc/latest/userguide/egress-only-internet-gateway.html upvoted 2 times

😑 👗 Guru4Cloud Most Recent 🕐 9 months, 3 weeks ago

Selected Answer: D

D. Create an egress-only internet gateway and make it the destination of the subnet's route table upvoted 1 times

E **L** TariqKipkemei 11 months, 3 weeks ago

Selected Answer: D

Outbound traffic only = Create an egress-only internet gateway and make it the destination of the subnet's route table upvoted 1 times

😑 🌡 radev 1 year ago

Selected Answer: D

Egress-Only internet Gateway upvoted 3 times

A company is creating an application that runs on containers in a VPC. The application stores and accesses data in an Amazon S3 bucket. During the development phase, the application will store and access 1 TB of data in Amazon S3 each day. The company wants to minimize costs and wants to prevent traffic from traversing the internet whenever possible.

Which solution will meet these requirements?

A. Enable S3 Intelligent-Tiering for the S3 bucket

B. Enable S3 Transfer Acceleration for the S3 bucket

C. Create a gateway VPC endpoint for Amazon S3. Associate this endpoint with all route tables in the VPC

D. Create an interface endpoint for Amazon S3 in the VPC. Associate this endpoint with all route tables in the VPC

Correct Answer: C	
Community vote distribution	
	C (100%)

😑 👗 litos168 (Highly Voted 🖬) 11 months ago

Amazon S3 supports both gateway endpoints and interface endpoints. With a gateway endpoint, you can access Amazon S3 from your VPC, without requiring an internet gateway or NAT device for your VPC, and with no additional cost. However, gateway endpoints do not allow access from on-premises networks, from peered VPCs in other AWS Regions, or through a transit gateway. For those scenarios, you must use an interface endpoint, which is available for an additional cost.

upvoted 10 times

😑 💄 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

Gateway VPC Endpoint: A gateway VPC endpoint enables private connectivity between a VPC and Amazon S3. It allows direct access to Amazon S3 without the need for internet gateways, NAT devices, VPN connections, or AWS Direct Connect.

Minimize Internet Traffic: By creating a gateway VPC endpoint for Amazon S3 and associating it with all route tables in the VPC, the traffic between the VPC and Amazon S3 will be kept within the AWS network. This helps in minimizing data transfer costs and prevents the need for traffic to traverse the internet.

Cost-Effective: With a gateway VPC endpoint, the data transfer between the application running in the VPC and the S3 bucket stays within the AWS network, reducing the need for data transfer across the internet. This can result in cost savings, especially when dealing with large amounts of data upvoted 6 times

😑 🌲 cloudenthusiast 1 year ago

Option B (Enable S3 Transfer Acceleration for the S3 bucket) is a feature that uses the CloudFront global network to accelerate data transfers to and from Amazon S3. While it can improve data transfer speed, it still involves traffic traversing the internet and doesn't directly address the goal of minimizing costs and preventing internet traffic whenever possible.

upvoted 1 times

😑 🛔 awsgeek75 [Most Recent 🕗] 4 months, 3 weeks ago

Selected Answer: C

https://aws.amazon.com/blogs/architecture/choosing-your-vpc-endpoint-strategy-for-amazon-s3/

A: Storage cost is not described as an issue here

B: Tx Accelerator is for external (global user) traffic acceleration

D: Interface endpoint is on-prem to S3

C: gateway VPC is specifically for S3 to AWS resources upvoted 2 times

😑 🌡 dkw2342 3 months ago

Interface endpoints are not exclusively for on-prem to S3.

The only reason why option D is wrong is because "Associate this endpoint with all route tables in the VPC" makes no sense. upvoted 1 times

😑 🌲 bsbs1234 8 months, 2 weeks ago

I think both C&D will works. But D will have extra cost. So C is correct. upvoted 2 times

😑 🆀 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C. Create a gateway VPC endpoint for Amazon S3. Associate this endpoint with all route tables in the VPC

upvoted 1 times

😑 🌡 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: C

Prevent traffic from traversing the internet = Gateway VPC endpoint for S3. upvoted 1 times

😑 💄 Anmol_1010 1 year ago

Key word transversing to internet upvoted 1 times

😑 🛔 Efren 1 year ago

Selected Answer: C

Gateway endpoint for S3 upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: C

vpc endpoint for s3 upvoted 4 times

A company has a mobile chat application with a data store based in Amazon DynamoDB. Users would like new messages to be read with as little latency as possible. A solutions architect needs to design an optimal solution that requires minimal application changes.

Which method should the solutions architect select?

A. Configure Amazon DynamoDB Accelerator (DAX) for the new messages table. Update the code to use the DAX endpoint.

B. Add DynamoDB read replicas to handle the increased read load. Update the application to point to the read endpoint for the read replicas.

C. Double the number of read capacity units for the new messages table in DynamoDB. Continue to use the existing DynamoDB endpoint.

D. Add an Amazon ElastiCache for Redis cache to the application stack. Update the application to point to the Redis cache endpoint instead of DynamoDB.

Community vote distribution A (93%) 7%	

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: A

B and C do not reduce latency. D would reduce latency but require significant application changes. upvoted 1 times

😑 🌲 wizcloudifa 1 month, 3 weeks ago

D would not reduce latency, all the messages are new, they wont be stored in cache and they are unique messages(dynamic content) so Elasticache would be pointless here, its more preferable for static content/frequently accessed content.... A makes perfect sense upvoted 2 times

😑 💄 Cyberkayu 5 months, 3 weeks ago

Selected Answer: C

0 code change @C

ABD. In memory cache, read replica, elasticache. Chat application and content is dynamic, cache will still pull data from prod database upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

C has 0 codes changes but doesn't address the issue. upvoted 4 times

😑 🌲 danielmakita 7 months, 2 weeks ago

Would go for A. Minimal application changes != No application changes upvoted 1 times

😑 💄 thanhnv142 7 months, 3 weeks ago

"requires minimal application changes" - Do not choose A because it requires updates of codes. upvoted 1 times

😑 🌢 thanhnv142 7 months, 3 weeks ago

C is correct A, B and D all require code changes to the app. upvoted 1 times

😑 🆀 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

A. Configure Amazon DynamoDB Accelerator (DAX) for the new messages table. Update the code to use the DAX endpoint. upvoted 1 times

□ ▲ haoAWS 11 months, 3 weeks ago

Selected Answer: A

Read replica does improve the read speed, but it cannot improve the latency because there is always latency between replicas. So A works and B not work.

upvoted 1 times

😑 💄 mattcl 11 months, 3 weeks ago

C, "requires minimal application changes"

upvoted 1 times

😑 🌲 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: A

little latency = Amazon DynamoDB Accelerator (DAX) . upvoted 3 times

😑 🌲 DrWatson 1 year ago

Selected Answer: A

I go with A https://aws.amazon.com/blogs/mobile/building-a-full-stack-chat-application-with-aws-and-nextjs/ but I have some doubts about this https://aws.amazon.com/blogs/database/how-to-build-a-chat-application-with-amazon-elasticache-for-redis/ upvoted 2 times

😑 💄 cloudenthusiast 1 year ago

Selected Answer: A

Amazon DynamoDB Accelerator (DAX): DAX is an in-memory cache for DynamoDB that provides low-latency access to frequently accessed data. B configuring DAX for the new messages table, read requests for the table will be served from the DAX cache, significantly reducing the latency.

Minimal Application Changes: With DAX, the application code can be updated to use the DAX endpoint instead of the standard DynamoDB endpoint. This change is relatively minimal and does not require extensive modifications to the application's data access logic.

Low Latency: DAX caches frequently accessed data in memory, allowing subsequent read requests for the same data to be served with minimal latency. This ensures that new messages can be read by users with minimal delay. upvoted 3 times

😑 💄 cloudenthusiast 1 year ago

Option B (Add DynamoDB read replicas) involves creating read replicas to handle the increased read load, but it may not directly address the requirement of minimizing latency for new message reads. upvoted 1 times

😑 👗 Efren 1 year ago

Tricky one, in doubt also with B, read replicas. upvoted 1 times

😑 🌲 awsgeek75 5 months ago

Yes it's tricky but least code changes is the tie breaker. DAX has zero code changes. upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: A

a is valid upvoted 2 times

Question #473

A company hosts a website on Amazon EC2 instances behind an Application Load Balancer (ALB). The website serves static content. Website traffic is increasing, and the company is concerned about a potential increase in cost.

- A. Create an Amazon CloudFront distribution to cache state files at edge locations
- B. Create an Amazon ElastiCache cluster. Connect the ALB to the ElastiCache cluster to serve cached files
- C. Create an AWS WAF web ACL and associate it with the ALB. Add a rule to the web ACL to cache static files
- D. Create a second ALB in an alternative AWS Region. Route user traffic to the closest Region to minimize data transfer costs

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: A

The problem with this question is that no sane AWS architect will chose any of these options and go for S3 caching. But given the choices, A is the only one which will solve the problem within reasonable cost.

upvoted 3 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

A. Create an Amazon CloudFront distribution to cache state files at edge locations upvoted 2 times

😑 💄 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: A

Serves static content = Amazon CloudFront distribution. upvoted 2 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: A

Amazon CloudFront: CloudFront is a content delivery network (CDN) service that caches content at edge locations worldwide. By creating a CloudFront distribution, static content from the website can be cached at edge locations, reducing the load on the EC2 instances and improving the overall performance.

Caching Static Files: Since the website serves static content, caching these files at CloudFront edge locations can significantly reduce the number o requests forwarded to the EC2 instances. This helps to lower the overall cost by offloading traffic from the instances and reducing the data transfer costs.

upvoted 4 times

😑 💄 nosense 1 year ago

Selected Answer: A
a for me
upvoted 2 times

Which solution will meet these requirements with the LEAST amount of administrative effort?

A. Use VPC peering to manage VPC communication in a single Region. Use VPC peering across Regions to manage VPC communications.

B. Use AWS Direct Connect gateways across all Regions to connect VPCs across regions and manage VPC communications.

C. Use AWS Transit Gateway to manage VPC communication in a single Region and Transit Gateway peering across Regions to manage VPC communications.

D. Use AWS PrivateLink across all Regions to connect VPCs across Regions and manage VPC communications

Correct Answer: C
Community vote distribution

😑 👗 Felix_br (Highly Voted 🖬 1 year ago

The correct answer is: C. Use AWS Transit Gateway to manage VPC communication in a single Region and Transit Gateway peering across Regions to manage VPC communications.

AWS Transit Gateway is a network hub that you can use to connect your VPCs and on-premises networks. It provides a single point of control for managing your network traffic, and it can help you to reduce the number of connections that you need to manage.

Transit Gateway peering allows you to connect two Transit Gateways in different Regions. This can help you to create a global network that spans multiple Regions.

To use Transit Gateway to manage VPC communication in a single Region, you would create a Transit Gateway in each Region. You would then attach your VPCs to the Transit Gateway.

To use Transit Gateway peering to manage VPC communication across Regions, you would create a Transit Gateway peering connection between the Transit Gateways in each Region.

upvoted 23 times

😑 🌲 TariqKipkemei 11 months, 3 weeks ago

thank you for this comprehensive explanation upvoted 2 times

😑 🛔 cloudenthusiast (Highly Voted 🖬 1 year ago

Selected Answer: C

AWS Transit Gateway: Transit Gateway is a highly scalable service that simplifies network connectivity between VPCs and on-premises networks. By using a Transit Gateway in a single Region, you can centralize VPC communication management and reduce administrative effort.

Transit Gateway Peering: Transit Gateway supports peering connections across AWS Regions, allowing you to establish connectivity between VPCs in different Regions without the need for complex VPC peering configurations. This simplifies the management of VPC communications across Regions.

upvoted 7 times

😑 🌲 awsgeek75 Most Recent 🕗 5 months ago

Selected Answer: C

C is like a managed solution for A. A can work but with a lot of overhead (CIDR blocks uniqueness requirement). B and D are not the right product: upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: C

multiple regions + multiple VPCs --> Transit Gateway upvoted 2 times

E **L** TariqKipkemei 11 months, 3 weeks ago

Selected Answer: C

Definitely C. Very well explained by @Felix_br upvoted 1 times

😑 🌢 omoakin 1 year ago

A company is designing a containerized application that will use Amazon Elastic Container Service (Amazon ECS). The application needs to access a shared file system that is highly durable and can recover data to another AWS Region with a recovery point objective (RPO) of 8 hours. The file system needs to provide a mount target m each Availability Zone within a Region.

A solutions architect wants to use AWS Backup to manage the replication to another Region.

Which solution will meet these requirements?

A. Amazon FSx for Windows File Server with a Multi-AZ deployment

B. Amazon FSx for NetApp ONTAP with a Multi-AZ deployment

C (88%)

C. Amazon Elastic File System (Amazon EFS) with the Standard storage class

D. Amazon FSx for OpenZFS

Correct Answer: C

Community vote distribution

13%

😑 🚨 elmogy (Highly Voted 🖬) 1 year ago

Selected Answer: C

https://aws.amazon.com/efs/faq/

Q: What is Amazon EFS Replication?

EFS Replication can replicate your file system data to another Region or within the same Region without requiring additional infrastructure or a custom process. Amazon EFS Replication automatically and transparently replicates your data to a second file system in a Region or AZ of your choice. You can use the Amazon EFS console, AWS CLI, and APIs to activate replication on an existing file system. EFS Replication is continual and provides a recovery point objective (RPO) and a recovery time objective (RTO) of minutes, helping you meet your compliance and business continuity goals.

upvoted 11 times

😑 👗 wizcloudifa (Most Recent 🕗) 1 month, 3 weeks ago

Selected Answer: C

The key thing to notice here in the question is "with a recovery point objective (RPO) of 8 hours", as it is 8 hours of time it recovery can be easily managed by EFS, no need to go for costlier and not built for this use-case(share file system) options like NetApp ONTAP(proprietary data cluster), OpenZFS(not a built in filesystem in AWS) or FSx for windows(file system for windows compatible workloads) upvoted 2 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: C

A: ECS is not Windows File Server so won't work

B: ONTAP is proprietary data cluster completely unrelated to this question

D: OpenZFS needs a Linux kind of host for access. Not a built-in filesystem in AWS by default

upvoted 1 times

😑 🏝 pentium75 5 months, 1 week ago

Selected Answer: C

"The file systemhttps://www.examtopics.com/exams/amazon/aws-certified-solutions-architect-associate-saa-c03/view/48/# needs to provide a mount target in each (!) Availability Zone within a Region", most regions have three AZs, but FSx Multi-AZ provides only nodes "spread across two

AZs". While "or Amazon EFS file systems that use Regional storage classes [such as Standard], you can create a mount target in each Availability Zone in an AWS Region."

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Huh, comment has been scrambled a bit. Anyway

FSx Multi-AZ: Mount targets in two AZs EFS Standard: Can create mount target in each AZ upvoted 1 times

😑 🆀 Goutham4981 6 months, 3 weeks ago

Selected Answer: C

In the absence of this information, we can only make an assumption based on the provided requirements. The requirement for a shared file system that can recover data to another AWS Region with a recovery point objective (RPO) of 8 hours, and the need for a mount target in each Availability Zone within a Region, are all natively supported by Amazon EFS with the Standard storage class.

While Amazon FSx for NetApp ONTAP does provide shared file systems and supports both Windows and Linux, it does not natively support replication to another region through AWS Backup.

upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C. Amazon Elastic File System (Amazon EFS) with the Standard storage class upvoted 1 times

😑 💄 cd93 9 months, 3 weeks ago

Selected Answer: B

B or C, but since question didn't mention operating system type, I guess we should go with B because it is more versatile (EFS supports Linux only) although ECS containers do support windows instances...

upvoted 1 times

😑 🌲 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: C

Both option B and C will support this requirement.

https://aws.amazon.com/efs/faq/#:~:text=What%20is%20Amazon%20EFS%20Replication%3F

https://aws.amazon.com/fsx/netapp-

ontap/faqs/#:~:text=How%20do%20l%20configure%20cross%2Dregion%20replication%20for%20the%20data%20in%20my%20file%20system%3F upvoted 1 times

😑 🌲 omoakin 1 year ago

upvoted 1 times

😑 🌲 [Removed] 1 year ago

Both B and C are feasible.

Amazon FSx for NetApp ONTAP is just way overpriced for a backup storage solution. The keyword to look out for is sub milli seconds latency In real life env, Amazon Elastic File System (Amazon EFS) with the Standard storage class is good enough. upvoted 3 times

🖃 🌲 Anmol_1010 1 year ago

Efs, can be mounted only in 1 region So the answer is B upvoted 3 times

😑 💄 Rob1L 1 year ago

Selected Answer: C C: EFS upvoted 2 times

😑 💄 y0 1 year ago

Selected Answer: C

AWS Backup can manage replication of EFS to another region as mentioned below https://docs.aws.amazon.com/efs/latest/ug/awsbackup.html upvoted 1 times

😑 🌲 norris81 1 year ago

https://aws.amazon.com/efs/faq/

During a disaster or fault within an AZ affecting all copies of your data, you might experience loss of data that has not been replicated using Amazon EFS Replication. EFS Replication is designed to meet a recovery point objective (RPO) and recovery time objective (RTO) of minutes. You can use AWS Backup to store additional copies of your file system data and restore them to a new file system in an AZ or Region of your choice. Amazon EFS file system backup data created and managed by AWS Backup is replicated to three AZs and is designed for 99.99999999% (11 nine: durability.

upvoted 1 times

😑 🌲 nosense 1 year ago

Amazon EFS is a scalable and durable elastic file system that can be used with Amazon ECS. However, it does not support replication to another AWS Region.

upvoted 1 times

😑 🏝 fakrap 1 year ago

To use EFS replication in a Region that is disabled by default, you must first opt in to the Region, so it does support. upvoted 1 times

😑 🌡 elmogy 1 year ago

it does support replication to another AWS Region check the same link you are replying to :/ https://aws.amazon.com/efs/faq/ Q: What is Amazon EFS Replication? EFS Replication can replicate your file system data to another Region or within the same Region without requiring additional infrastructure o a custom process. Amazon EFS Replication automatically and transparently replicates your data to a second file system in a Region or AZ of your choice. You can use the Amazon EFS console, AWS CLI, and APIs to activate replication on an existing file system. EFS Replication is continual and provides a recovery point objective (RPO) and a recovery time objective (RTO) of minutes, helping you meet your compliance and business continuity goals.

upvoted 1 times

😑 🌲 nosense 1 year ago

Selected Answer: B

shared file system that is highly durable and can recover data upvoted 2 times

😑 🌡 Efren 1 year ago

Why not EFS? upvoted 1 times

A company is expecting rapid growth in the near future. A solutions architect needs to configure existing users and grant permissions to new users on AWS. The solutions architect has decided to create IAM groups. The solutions architect will add the new users to IAM groups based on department.

Which additional action is the MOST secure way to grant permissions to the new users?

A. Apply service control policies (SCPs) to manage access permissions

B. Create IAM roles that have least privilege permission. Attach the roles to the IAM groups

C. Create an IAM policy that grants least privilege permission. Attach the policy to the IAM groups

D. Create IAM roles. Associate the roles with a permissions boundary that defines the maximum permissions

Correct Answer: C
Community vote distribution C (92%) 8%
 Rob1L Highly Voted 1 year ago Selected Answer: C Option B is incorrect because IAM roles are not directly attached to IAM groups. upvoted 8 times
RoroJ 1 year ago IAM Roles can be attached to IAM Groups: https://docs.aws.amazon.com/directoryservice/latest/admin-guide/assign_role.html upvoted 3 times
antropaws 1 year ago Read your own link: You can assign an existing IAM role to an AWS Directory Service user or group. Not to IAM groups. upvoted 7 times
zinabu Most Recent ② 2 months ago create role=for resource like EC2 and lambda create a Policy =for groups or user access policy for the resources like S3 bucket upvoted 2 times
 pentium75 5 months, 1 week ago Selected Answer: C Not A or D because this is not about restricting maximum permissions, it is is about securely granting permissions
Not B because IAM roles are not attached to IAM groups.
C because IAM policies are attached to IAM groups. upvoted 4 times
E Spotomac 7 months, 1 week ago

A is wrong

Selected Answer: C

SCPs are mainly used along with AWS Organizations organizational units (OUs). SCPs do not replace IAM Policies such that they do not provide actual permissions. To perform an action, you would still need to grant appropriate IAM Policy permissions. upvoted 2 times

□ ■ Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Create an IAM policy that grants least privilege permission. Attach the policy to the IAM groups upvoted 1 times

😑 💄 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: C

An IAM policy is an object in AWS that, when associated with an identity or resource, defines their permissions. Permissions in the policies determine whether a request is allowed or denied. You manage access in AWS by creating policies and attaching them to IAM identities (users, groups of users, or roles) or AWS resources. So, option B will also work. But Since I can only choose one, C would be it. upvoted 2 times

🖃 🌲 MrAWSAssociate 11 months, 4 weeks ago

Selected Answer: C

You can attach up to 10 IAM policy for a 'user group'. upvoted 1 times

😑 🏝 antropaws 1 year ago

Selected Answer: C

C is the correct one. upvoted 1 times

😑 💄 Efren 1 year ago

Selected Answer: C

Agreed with C

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_groups_manage_attach-policy.html

Attaching a policy to an IAM user group upvoted 4 times

😑 📥 nosense 1 year ago

Selected Answer: B

should be b upvoted 2 times

😑 🌲 imazsyed 1 year ago

it should be C upvoted 3 times

😑 💄 nosense 1 year ago

Option C is not as secure as option B because IAM policies are attached to individual users and cannot be used to manage permissions for groups of users. upvoted 2 times

😑 💄 omoakin 1 year ago

IAM Roles manage who has access to your AWS resources, whereas IAM policies control their permissions. A Role with no Policy attachec to it won't have to access any AWS resources. A Policy that is not attached to an IAM role is effectively unused. upvoted 4 times

E **Clouddon** 9 months, 1 week ago

https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

IAM roles are not attached to IAM groups.

IAM policies are attached to IAM roles, IAM groups or IAM users. IAM roles are used by services. upvoted 1 times

Question #477

A group requires permissions to list an Amazon S3 bucket and delete objects from that bucket. An administrator has created the following IAM policy to provide access to the bucket and applied that policy to the group. The group is not able to delete objects in the bucket. The company follows least-privilege access rules.

Which statement should a solutions architect add to the policy to correct bucket access?

```
"Action": [
       "s3:*Object"
  1,
A. "Resource": [
       "arn:aws:s3:::bucket-name/*"
  1,
  "Effect": "Allow"
 "Action": [
      "s3:*"
 1,
B. "Resource": [
      "arn:aws:s3:::bucket-name/*"
 1,
 "Effect": "Allow"
  "Action": [
      "s3:DeleteObject"
  1,
C. "Resource": [
      "arn:aws:s3:::bucket-name*"
  1,
  "Effect": "Allow"
  "Action": [
      "s3:DeleteObject"
  1,
  "Resource": [
n
```

D. RESULTCE	• L	
"arn:a	ws:s3:::bucket-name/*"	
1,		
"Effect":	"Allow"	
Correct Answer: C		
Community vote dist	ibution	
	D (100%)	

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: D

option B action is S3:*. this means all actions. The company follows least-privilege access rules. Hence option D upvoted 5 times

😑 👗 TariqKipkemei (Most Recent 🕗) 11 months, 3 weeks ago

Selected Answer: D

D is the answer upvoted 3 times

E AncaZalog 12 months ago

what's the difference between B and D? on B the statements are just placed in another order upvoted 1 times

😑 🌲 TariqKipkemei 11 months, 3 weeks ago

option B action is S3:*. this means all actions. The company follows least-privilege access rules. Hence option D upvoted 1 times

😑 🏝 serepetru 1 year ago

What is the difference between C and D? upvoted 2 times

😑 🏝 Ta_Les 12 months ago

the "/" at the end of the last line on D upvoted 5 times

😑 🌲 sheilawu 2 weeks, 6 days ago

so annoying when you oversee this"/" upvoted 1 times

😑 💄 Rob1L 1 year ago

Selected Answer: D

D for sure upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: D d work

upvoted 4 times

😑 🌡 Efren 1 year ago

Agreed upvoted 1 times

Which solution will meet these requirements in the MOST secure way?

A. Upload all files to an Amazon S3 bucket that is configured for static website hosting. Grant read-only IAM permissions to any AWS principals that access the S3 bucket until the designated date.

B. Create a new Amazon S3 bucket with S3 Versioning enabled. Use S3 Object Lock with a retention period in accordance with the designated date. Configure the S3 bucket for static website hosting. Set an S3 bucket policy to allow read-only access to the objects.

C. Create a new Amazon S3 bucket with S3 Versioning enabled. Configure an event trigger to run an AWS Lambda function in case of object modification or deletion. Configure the Lambda function to replace the objects with the original versions from a private S3 bucket.

D. Upload all files to an Amazon S3 bucket that is configured for static website hosting. Select the folder that contains the files. Use S3 Object Lock with a retention period in accordance with the designated date. Grant read-only IAM permissions to any AWS principals that access the S3 bucket.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 🜲 nosense (Highly Voted 🖬) 1 year ago

Selected Answer: B

Option A allows the files to be modified or deleted by anyone with read-only IAM permissions. Option C allows the files to be modified or deleted by anyone who can trigger the AWS Lambda function.

Option D allows the files to be modified or deleted by anyone with read-only IAM permissions to the S3 bucket upvoted 5 times

😑 🌲 wizcloudifa 1 month, 3 weeks ago

no it doesnt, did you not notice this part: "S3 Object Lock with a retention period in accordance with the designated date", this part avoids deletion/modification of files

upvoted 1 times

E Spotomac Most Recent 7 months, 1 week ago

Selected Answer: B

S3 bucket policy upvoted 3 times

😑 🌲 thanhnv142 7 months, 3 weeks ago

B is correct.

A doesnot have S3 object lock, but deletion is prohibited, which implies object lock

C does not have S3 as static web, but have to share the s3 with the public

D mentions files - but S3 manages objects, not file

upvoted 1 times

😑 🌲 hydro143 8 months, 1 week ago

D?

Its like B, but also with read-only access limitations for anyone with IAM permissions. Also versioning in B doesn't help with anything

upvoted 2 times

😑 💄 ManikRoy 1 month ago

Enabling versioning is a pre-requisite for object lock. upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Create a new Amazon S3 bucket with S3 Versioning enabled. Use S3 Object Lock with a retention period in accordance with the designated date. Configure the S3 bucket for static website hosting. Set an S3 bucket policy to allow read-only access to the objects. upvoted 2 times

E **L** TariqKipkemei 11 months, 3 weeks ago

Selected Answer: B

Create a new Amazon S3 bucket with S3 Versioning enabled. Use S3 Object Lock with a retention period in accordance with the designated date. Configure the S3 bucket for static website hosting. Set an S3 bucket policy to allow read-only access to the objects. upvoted 3 times

😑 🌡 antropaws 1 year ago

Selected Answer: B Clearly B.

upvoted 2 times

😑 🌡 dydzah 1 year ago

Selected Answer: B

https://docs.aws.amazon.com/AmazonS3/latest/userguide/object-lock.html upvoted 4 times

What should a solutions architect recommend to meet these requirements?

A. Use AWS Systems Manager to replicate and provision the prototype infrastructure in two Availability Zones

B. Define the infrastructure as a template by using the prototype infrastructure as a guide. Deploy the infrastructure with AWS CloudFormation.

C. Use AWS Config to record the inventory of resources that are used in the prototype infrastructure. Use AWS Config to deploy the prototype infrastructure into two Availability Zones.

D. Use AWS Elastic Beanstalk and configure it to use an automated reference to the prototype infrastructure to automatically deploy new environments in two Availability Zones.

Correct Answer: *B*

Community vote distribution

B (100%)

E & Guru4Cloud Highly Voted 🖬 9 months, 3 weeks ago

Just Think Infrastructure as Code=== Cloud Formation upvoted 6 times

😑 👗 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: B

A: Wrong product
C: Wrong product
D: EBS can only handle EC2 so RDS won't be replicated automatically
B: CloudFormation = IaaC
upvoted 2 times

😑 📥 capino 9 months, 4 weeks ago

Selected Answer: B

Just Think Infrastructure as Code=== Cloud Formation upvoted 4 times

😑 🌲 haoAWS 11 months, 3 weeks ago

Why D is not correct? upvoted 2 times

😑 🌲 Kiki_Pass 10 months, 2 weeks ago

I guess it's because Beanstalk is PaaS (platform as a service) while CloudFormation is IaC (infrastructure as code). The question emphasis more on infrastructure upvoted 2 times

😑 🌲 wRhIH 11 months, 3 weeks ago

I guess "TEMPLATE" leads to CloudFormation

upvoted 2 times

😑 🌡 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: B

Infrastructure as code = AWS CloudFormation

upvoted 4 times

😑 🌡 antropaws 1 year ago

Selected Answer: B

Clearly B.

upvoted 2 times

😑 🌡 Felix_br 1 year ago

Selected Answer: B

AWS CloudFormation is a service that allows you to define and provision infrastructure as code. This means that you can create a template that describes the resources you want to create, and then use CloudFormation to deploy those resources in an automated fashion.

In this case, the solutions architect should define the infrastructure as a template by using the prototype infrastructure as a guide. The template should include resources for an Auto Scaling group, an Application Load Balancer, and an Amazon RDS database. Once the template is created, the solutions architect can use CloudFormation to deploy the infrastructure in two Availability Zones. upvoted 2 times

😑 💄 omoakin 1 year ago

В

Define the infrastructure as a template by using the prototype infrastructure as a guide. Deploy the infrastructure with AWS CloudFormation upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: B b obvious upvoted 4 times

Question #480

Topic 1

A business application is hosted on Amazon EC2 and uses Amazon S3 for encrypted object storage. The chief information security officer has directed that no application traffic between the two services should traverse the public internet.

Which capability should the solutions architect use to meet the compliance requirements?

- A. AWS Key Management Service (AWS KMS)
- B. VPC endpoint

C. Private subnet

D. Virtual private gateway

Correct Answer: *B*

Community vote distribution

B (100%)

😑 🌲 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: B

A VPC endpoint enables you to privately access AWS services without requiring internet gateways, NAT gateways, VPN connections, or AWS Direct Connect connections. It allows you to connect your VPC directly to supported AWS services, such as Amazon S3, over a private connection within the AWS network.

By creating a VPC endpoint for Amazon S3, the traffic between your EC2 instances and S3 will stay within the AWS network and won't traverse the public internet. This provides a more secure and compliant solution, as the data transfer remains within the private network boundaries. upvoted 8 times

😑 🌡 TariqKipkemei [Most Recent 🕑] 11 months, 3 weeks ago

Selected Answer: B Prevent traffic from traversing the internet = VPC endpoint for S3. upvoted 3 times

😑 🌡 antropaws 1 year ago



Selected Answer: B

B until proven contrary. upvoted 2 times

😑 🌡 handsonlabsaws 1 year ago

Selected Answer: B

B for sure upvoted 2 times

😑 📥 Blingy 1 year ago BBBBBBBBB upvoted 1 times

Which solution will meet these requirements?

A. Implement the lazy loading caching strategy

B. Implement the write-through caching strategy

C. Implement the adding TTL caching strategy

D. Implement the AWS AppConfig caching strategy

Correct Answer: *B*

Community vote distribution

B (100%)

😑 🛔 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: B

In the write-through caching strategy, when a customer adds or updates an item in the database, the application first writes the data to the database and then updates the cache with the same data. This ensures that the cache is always synchronized with the database, as every write operation triggers an update to the cache.

upvoted 20 times

😑 💄 cloudenthusiast 1 year ago

Lazy loading caching strategy (option A) typically involves populating the cache only when data is requested, and it does not guarantee that the data in the cache always matches the data in the database.

Adding TTL (Time-to-Live) caching strategy (option C) involves setting an expiration time for cached data. It is useful for scenarios where the data can be considered valid for a specific period, but it does not guarantee that the data in the cache is always in sync with the database.

AWS AppConfig caching strategy (option D) is a service that helps you deploy and manage application configurations. It is not specifically designed for caching data synchronization between a database and cache layer. upvoted 31 times

😑 👗 Kp88 10 months, 2 weeks ago

Great explanation , thanks upvoted 2 times

\square		zinabu	Most Recent 🕑	2 months ago
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write-through cashing strategy upvoted 1 times

😑 🌲 dikshya1233 4 months, 2 weeks ago

In exam upvoted 2 times

😑 🏝 awsgeek75 4 months, 3 weeks ago

Selected Answer: B

More helpful reading for why B is the answer:

https://docs.aws.amazon.com/AmazonElastiCache/latest/mem-ug/Strategies.html#Strategies.WriteThrough upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

B. Implement the write-through caching strategy upvoted 3 times

E **L** TariqKipkemei 11 months, 3 weeks ago

Selected Answer: B

The answer is definitely B. I couldn't provide any more details than what has been shared by @cloudenthusiast. upvoted 1 times

😑 🌡 nosense 1 year ago

Selected Answer: B

write-through caching strategy updates the cache at the same time as the database upvoted 2 times

A company wants to migrate 100 GB of historical data from an on-premises location to an Amazon S3 bucket. The company has a 100 megabits per second (Mbps) internet connection on premises. The company needs to encrypt the data in transit to the S3 bucket. The company will store new data directly in Amazon S3.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use the s3 sync command in the AWS CLI to move the data directly to an S3 bucket

B. Use AWS DataSync to migrate the data from the on-premises location to an S3 bucket

C. Use AWS Snowball to move the data to an S3 bucket

D. Set up an IPsec VPN from the on-premises location to AWS. Use the s3 cp command in the AWS CLI to move the data directly to an S3 bucket

Correct Answer: *B*

Community vote distribution

A (42%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

B (58%)

Selected Answer: B

AWS DataSync is a fully managed data transfer service that simplifies and automates the process of moving data between on-premises storage and Amazon S3. It provides secure and efficient data transfer with built-in encryption, ensuring that the data is encrypted in transit.

By using AWS DataSync, the company can easily migrate the 100 GB of historical data from their on-premises location to an S3 bucket. DataSync will handle the encryption of data in transit and ensure secure transfer. upvoted 9 times

😑 🌡 bujuman Most Recent 🕗 2 months, 1 week ago

Selected Answer: A

Assertions:

- needs to encrypt the data in transit to the S3 bucket.

- The company will store new data directly in Amazon S3.

Requirements:

- with the LEAST operational overhead

Even Though options A and B could do the job, option A requires VM maintenance because it is not a once-off migration (The company will store new data directly in Amazon S3)

NB: According to me, we must stuck to the question and avoid to interpret

upvoted 2 times

😑 💄 bujuman 2 months, 1 week ago

Erratum:

Assertions:

- needs to encrypt the data in transit to the S3 bucket.

- The company will store new data directly in Amazon S3.

Requirements:

- with the LEAST operational overhead

Even Though options A and B could do the job, option B requires VM maintenance because it is not a once-off migration (The company will store new data directly in Amazon S3)

NB: According to me, we must stuck to the question and avoid to interpret

unvoted 1 times

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: A

- A one single command, uses encryption automatically
- B Must install, configure and eventually decommission DataSync
- C Overkill
- D No need for VPN

upvoted 4 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

I agree, A is a million times simpler than B in terms of operational setup. AWS CLI is just one install on a server on client side and one command (literally) to sync the data.

upvoted 3 times

😑 💄 1rob 5 months, 3 weeks ago

Selected Answer: A

By default, all data transmitted from the client computer running the AWS CLI and AWS service endpoints is encrypted by sending everything through a HTTPS/TLS connection. You don't need to do anything to enable the use of HTTPS/TLS. It is always enabled unless you explicitly disable it for an individual command by using the --no-verify-ssl command line option. This is simpler compared to datasync, which will cost operational overhead to configure. upvoted 1 times

 Potomac 7 months, 1 week ago
 Selected Answer: B storage data (including metadata) is encrypted in transit, but how it's encrypted throughout the transfer depends on your source and destination

locations.

upvoted 1 times

😑 🏝 thanhnv142 7 months, 3 weeks ago

B is correct to migrate

A is incorrect because is it only used to upload minor files (about a few GB) to AWS. 100 GB is not appropriate. upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

There is no limitation on AWS CLI s3 sync command transfer size. Not that I can find in the docs. https://awscli.amazonaws.com/v2/documentation/api/latest/reference/s3/sync.html

Happy to be corrected! upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Use AWS DataSync to migrate the data from the on-premises location to an S3 bucket upvoted 3 times

😑 💄 HectorLeon2099 11 months ago

Selected Answer: A

B is a good option but as the volume is not large and the speed is not bad, A requires less operational overhead upvoted 4 times

😑 🌲 VellaDevil 11 months, 1 week ago

Selected Answer: B

Answer A and B both are correct and with least operational overhead. But since the question says from an "On-premise Location" hence I would go with DataSync.

upvoted 1 times

😑 🌲 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: B

AWS DataSync is a secure, online service that automates and accelerates moving data between on premises and AWS Storage services. upvoted 1 times

😑 💄 **vrevkov** 11 months, 4 weeks ago

Why not A?

s3 is already encrypted in transit by TLS.

We need to have the LEAST operational overhead and DataSync implies the installation of Agent whereas AWS CLI is easier to use. upvoted 3 times

😑 👗 Smart 9 months, 3 weeks ago

I can think of two reasons.

- S3 does have HTTP and HTTPS endpoints available.
- DataSync offers data compression considering the question mentions of internet bandwidth is mentioned.
 upvoted 1 times

⊟ ▲ Axeashes 12 months ago

Selected Answer: A

https://docs.aws.amazon.com/cli/latest/userguide/cli-services-s3-commands.html upvoted 3 times

😑 💄 luiscc 1 year ago

Selected Answer: B

Using DataSync, the company can easily migrate the 100 GB of historical data to an S3 bucket. DataSync will handle the encryption of data in transit, so the company does not need to set up a VPN or worry about managing encryption keys.

Option A, using the s3 sync command in the AWS CLI to move the data directly to an S3 bucket, would require more operational overhead as the company would need to manage the encryption of data in transit themselves. Option D, setting up an IPsec VPN from the on-premises location to AWS, would also require more operational overhead and would be overkill for this scenario. Option C, using AWS Snowball, could work but would require more time and resources to order and set up the physical device.

upvoted 4 times

😑 🖀 EA100 1 year ago

Answer - A Use the s3 sync command in the AWS CLI to move the data directly to an S3 bucket. upvoted 4 times

A company containerized a Windows job that runs on .NET 6 Framework under a Windows container. The company wants to run this job in the AWS Cloud. The job runs every 10 minutes. The job's runtime varies between 1 minute and 3 minutes.

Which solution will meet these requirements MOST cost-effectively?

A. Create an AWS Lambda function based on the container image of the job. Configure Amazon EventBridge to invoke the function every 10 minutes.

B. Use AWS Batch to create a job that uses AWS Fargate resources. Configure the job scheduling to run every 10 minutes.

C. Use Amazon Elastic Container Service (Amazon ECS) on AWS Fargate to run the job. Create a scheduled task based on the container image of the job to run every 10 minutes.

D. Use Amazon Elastic Container Service (Amazon ECS) on AWS Fargate to run the job. Create a standalone task based on the container image of the job. Use Windows task scheduler to run the job every
 10 minutes.

Correct Answer: A

Community vote distribution C (53%)

A (15%)

B (33%)

😑 💄 baba365 (Highly Voted 🖬) 8 months, 2 weeks ago

Lambda supports only Linux-based container images.

https://docs.aws.amazon.com/lambda/latest/dg/images-create.html upvoted 10 times

😑 🌲 awsgeek75 5 months ago

Not really. Lambda supports .Net 6 directly: https://aws.amazon.com/blogs/compute/introducing-the-net-6-runtime-for-aws-lambda/ upvoted 4 times

😑 🌲 AmrFawzy93 (Highly Voted 🖬) 1 year ago

Selected Answer: C

By using Amazon ECS on AWS Fargate, you can run the job in a containerized environment while benefiting from the serverless nature of Fargate, where you only pay for the resources used during the job's execution. Creating a scheduled task based on the container image of the job ensures that it runs every 10 minutes, meeting the required schedule. This solution provides flexibility, scalability, and cost-effectiveness. upvoted 8 times

😑 👗 zinabu (Most Recent 🕐) 2 months ago

selected answer : A

AWS Lambda now supports .NET 6 as both a managed runtime and a container base image upvoted 3 times

🖃 💄 **xBUGx** 2 months, 1 week ago

Selected Answer: A

https://aws.amazon.com/about-aws/whats-new/2022/02/aws-lambda-adds-support-net6/ upvoted 1 times

😑 💄 awsgeek75 5 months ago

•

The question is weirdly phrased for .Net based containers. "A company containerized a Windows job that runs on .NET 6 Framework under a Windows container." This could mean that the job requires .Net 6 Framework OR it could mean the job requires Windows and .Net Framework 6. If the job is just based on .Net 6 then Lambda can run it. I am just a bit cautious about language because other parameters fall under Lambda. Question may have been wrongly quoted here.

upvoted 3 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: C

I guess this is an old question from before August 2023, when AWS Batch did not support Windows containers, while ECS already did since September 2021. Thus it would be C, though now B does also work. Since both Batch and ECS are free, we'd pay only for the Fargate resources (which are identical in both cases), now B and C would be correct.

A doesn't work because Lambda still does not support Windows containeres. D doesn't make sense because the container would have to run 24/7 upvoted 6 times

😑 💄 ftaws 5 months, 3 weeks ago

I think that Batch with Fargate is more cheaper than ECS. upvoted 1 times

E **bentium75** 5 months, 1 week ago

Both Batch and ECS are free. https://aws.amazon.com/de/ecs/pricing/ https://aws.amazon.com/de/batch/pricing/ upvoted 1 times

😑 💄 kt7 7 months ago

Selected Answer: B

Batch supports fargate now upvoted 5 times

E **a** ccmc 7 months, 1 week ago

Selected Answer: B

aws batch supports fargate upvoted 2 times

😑 👗 deechean 9 months, 2 weeks ago

Selected Answer: C

C works. For A, the lambda support container image, but the container image much implement the Lambda Runtime API. upvoted 1 times

😑 🌲 markoniz 9 months ago

Absolutely agree with this one ... Lambda do not support Windows container, on the other hand ECS is adequate solution upvoted 2 times

😑 💄 Hades2231 9 months, 2 weeks ago

Selected Answer: B

As they support Batch on Fargate now (Aug 2023), the correct answer should be B? upvoted 3 times

😑 💄 RDM10 8 months, 3 weeks ago

that's exactly my question too.

In one of the discussions, they same lambda is for jobs for 15 min. But for other question, they same batch is the best. I do not understand why we cant use batch?

upvoted 1 times

😑 🌲 Smart 9 months, 3 weeks ago

Selected Answer: A

https://docs.aws.amazon.com/lambda/latest/dg/csharp-image.html#csharp-image-clients upvoted 1 times

😑 上 pentium75 5 months, 1 week ago

But it's clearly "a Windows job". Lambda does not support Windows containers. (.NET 6 could also run under Linux, but they'd need to modify the container in any case.) upvoted 1 times

😑 🛔 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C is the most cost-effective solution for running a short-lived Windows container job on a schedule.

Using Amazon ECS scheduled tasks on Fargate eliminates the need to provision EC2 resources. You pay only for the duration the task runs.

Scheduled tasks handle scheduling the jobs and scaling resources automatically. This is lower cost than managing your own scaling via Lambda or Batch.

ECS also supports Windows containers natively unlike Lambda (option A).

Option D still requires provisioning and paying for full time EC2 resources to run a task scheduler even when tasks are not running. upvoted 2 times

😑 🌲 cd93 9 months, 3 weeks ago

August 2023, AWS Batch now support Windows container

https://docs.aws.amazon.com/batch/latest/userguide/fargate.html#when-to-use-fargate upvoted 1 times

😑 💄 cd93 9 months, 2 weeks ago

https://aws.amazon.com/blogs/containers/running-windows-containers-with-amazon-ecs-on-aws-fargate/ upvoted 1 times

😑 🌲 wRhIH 11 months, 3 weeks ago

For those wonder why not B AWS Batch doesn't support Windows containers on either Fargate or EC2 resources. https://docs.aws.amazon.com/batch/latest/userguide/fargate.html#when-to-usefargate:~:text=AWS%20Batch%20doesn%27t%20support%20Windows%20containers%20on%20either%20Fargate%20or%20EC2%20resources. upvoted 2 times

😑 💄 lemur88 9 months, 3 weeks ago

They have now added support, which now makes B true? https://aws.amazon.com/about-aws/whats-new/2023/07/aws-batch-fargate-linux-arm64-windows-x86-containers-cli-sdk/ upvoted 1 times

😑 🌲 cyber_bedouin 7 months, 3 weeks ago

the actual exam is not up-to-date, it came out in August 30, 2022 upvoted 1 times

😑 🏝 mattel 11 months, 3 weeks ago

A: Lambda supports containerized applications upvoted 2 times

😑 💄 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: C

AWS Fargate will bill you based on the amount of vCPU, RAM, OS, CPU architecture, and storage that your containerized apps consume while running on EKS or ECS. From the time you start downloading a container image until the ECS task or EKS pod ends. Lambda is also an option but will involve some re-architecting, so why take the long route? upvoted 1 times

😑 🏝 TariqKipkemei 7 months, 1 week ago

Also, Lambda does not support windows-based container images.

https://docs.aws.amazon.com/lambda/latest/dg/images-create.html#:~:text=Lambda%20supports%20only-,Linux%2Dbased,-container%20images.

upvoted 1 times

A company wants to move from many standalone AWS accounts to a consolidated, multi-account architecture. The company plans to create many new AWS accounts for different business units. The company needs to authenticate access to these AWS accounts by using a centralized corporate directory service.

Which combination of actions should a solutions architect recommend to meet these requirements? (Choose two.)

A. Create a new organization in AWS Organizations with all features turned on. Create the new AWS accounts in the organization.

B. Set up an Amazon Cognito identity pool. Configure AWS IAM Identity Center (AWS Single Sign-On) to accept Amazon Cognito authentication.

C. Configure a service control policy (SCP) to manage the AWS accounts. Add AWS IAM Identity Center (AWS Single Sign-On) to AWS Directory Service.

D. Create a new organization in AWS Organizations. Configure the organization's authentication mechanism to use AWS Directory Service directly.

E. Set up AWS IAM Identity Center (AWS Single Sign-On) in the organization. Configure IAM Identity Center, and integrate it with the company's corporate directory service.

Correct Answer: AE

Community vote distribution

AE (100%)

E & cloudenthusiast (Highly Voted 🖬 1 year ago

Selected Answer: AE

A. By creating a new organization in AWS Organizations, you can establish a consolidated multi-account architecture. This allows you to create anc manage multiple AWS accounts for different business units under a single organization.

E. Setting up AWS IAM Identity Center (AWS Single Sign-On) within the organization enables you to integrate it with the company's corporate directory service. This integration allows for centralized authentication, where users can sign in using their corporate credentials and access the AWS accounts within the organization.

Together, these actions create a centralized, multi-account architecture that leverages AWS Organizations for account management and AWS IAM Identity Center (AWS Single Sign-On) for authentication and access control. upvoted 10 times

😑 🛔 Guru4Cloud (Most Recent 🕗) 9 months, 3 weeks ago

Selected Answer: AE

A) Using AWS Organizations allows centralized management of multiple AWS accounts in a single organization. New accounts can easily be create within the organization.

E) Integrating AWS IAM Identity Center (AWS SSO) with the company's corporate directory enables federated single sign-on. Users can log in once to access accounts and resources across AWS.

Together, Organizations and IAM Identity Center provide consolidated management and authentication for multiple accounts using existing corporate credentials.

upvoted 2 times

😑 🌲 samehpalass 11 months, 3 weeks ago

Selected Answer: AE

A:AWS Organization E:Authentication because option C (SCP) for Authorization upvoted 3 times

😑 💄 baba365 11 months, 1 week ago

Ans: CD

'centralized corporate directory service' with new accounts in AWS Organizations upvoted 1 times

E **L** TariqKipkemei 11 months, 3 weeks ago

Selected Answer: AE

Create a new organization in AWS Organizations with all features turned on. Create the new AWS accounts in the organization. Set up AWS IAM Identity Center (AWS Single Sign-On) in the organization. Configure IAM Identity Center, and integrate it with the company's corporate directory service. AWS IAM Identity Center (successor to AWS Single Sign-On) helps you securely create or connect your workforce identities and manage their access centrally across AWS accounts and applications.

https://aws.amazon.com/iam/identity-

center/#:~:text=AWS%20IAM%20Identity%20Center%20(successor%20to%20AWS%20Single%20Sign%2DOn)%20helps%20you%20securely%20cr ate%20or%20connect%20your%20workforce%20identities%20and%20manage%20their%20access%20centrally%20across%20AWS%20accounts% 0and%20applications.

upvoted 1 times

😑 💄 nosense 1 year ago

ae is right upvoted 1 times

What is the MOST cost-effective solution?

- A. Store the video archives in Amazon S3 Glacier and use Expedited retrievals.
- B. Store the video archives in Amazon S3 Glacier and use Standard retrievals.
- C. Store the video archives in Amazon S3 Standard-Infrequent Access (S3 Standard-IA).
- D. Store the video archives in Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA).

Correct Answer: $\ensuremath{\mathcal{C}}$

Community vote distribution

A (96%)

4%

😑 🛔 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: A

By choosing Expedited retrievals in Amazon S3 Glacier, you can reduce the retrieval time to minutes, making it suitable for scenarios where quick access is required. Expedited retrievals come with a higher cost per retrieval compared to standard retrievals but provide faster access to your archived data.

upvoted 10 times

😑 👗 Ravan (Most Recent 🕐) 3 months, 2 weeks ago

Selected Answer: A

The most cost-effective solution that also meets the requirement of having the files available within a maximum of five minutes when needed is:

A. Store the video archives in Amazon S3 Glacier and use Expedited retrievals.

Amazon S3 Glacier is designed for long-term storage of data archives, providing a highly durable and secure solution at a low cost. With Expeditec retrievals, data can be retrieved within a few minutes, which meets the requirement of having the files available within five minutes when needed. This option provides the balance between cost-effectiveness and retrieval speed, making it the best choice for the company's needs. upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: A

Occasional cost for retrieval from Glacier is nothing compared to the huge storage cost savings compared to C. Still meets the five minute requirement.

upvoted 1 times

😑 📥 master9 5 months, 2 weeks ago

Selected Answer: C

The retrieval price will play an important role here. I selected the "C" option because in "Glacier and use Expedited retrievals" its around \$0.004 per GB/month and for STD-IA \$0.0125 per GB/month

https://www.cloudforecast.io/blog/aws-s3-pricing-and-optimization-guide/

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

But they "will rarely need to restore their files", thus the low cost for occasional expedited retrievals will be nothing compared to the huge

storage cost savings.

😑 💄 ngo01214 8 months ago

s3 expedited can only be applied on glacier flexible retrieval storage class and s3 intelligent tiering archive access tier. so the answer should be C upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

A mentions "G3 Glacier" which has been renamed to "S3 Glacier Flexible Retrieval" and meets the requirements. upvoted 1 times

😑 👗 Smart 9 months, 3 weeks ago

Selected Answer: A

I am going with option A, but it is a poorly written question. "For all but the largest archives (more than 250 MB), data accessed by using Expeditec retrievals is typically made available within 1–5 minutes. " upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

Answer - A

Fast availability: Although retrieval times for objects stored in Amazon S3 Glacier typically range from minutes to hours, you can use the Expedited retrievals option to expedite access to your archives. By using Expedited retrievals, the files can be made available in a maximum of five minutes when needed. However, Expedited retrievals do incur higher costs compared to standard retrievals.

upvoted 1 times

😑 🌲 hsinchang 10 months, 3 weeks ago

Selected Answer: A

Expedited retrievals are designed for urgent requests and can provide access to data in as little as 1-5 minutes for most archive objects. Standard retrievals typically finish within 3-5 hours for objects stored in the S3 Glacier Flexible Retrieval storage class or S3 Intelligent-Tiering Archive Access tier. These retrievals typically finish within 12 hours for objects stored in the S3 Glacier Deep Archive storage class or S3 Intelligent-Tiering Deep Archive Access tier. So A.

upvoted 2 times

😑 🌲 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: A

Expedited retrievals allow you to quickly access your data that's stored in the S3 Glacier Flexible Retrieval storage class or the S3 Intelligent-Tiering Archive Access tier when occasional urgent requests for restoring archives are required. Data accessed by using Expedited retrievals is typically made available within 1–5 minutes.

upvoted 1 times

😑 🌲 MrAWSAssociate 11 months, 4 weeks ago

Selected Answer: A

A for sure! upvoted 1 times

😑 🏝 Doyin8807 1 year ago

C because A is not the most cost effective upvoted 1 times

😑 💄 luiscc 1 year ago

Selected Answer: A

Expedited retrieval typically takes 1-5 minutes to retrieve data, making it suitable for the company's requirement of having the files available in a maximum of five minutes.

upvoted 4 times

😑 👗 Efren 1 year ago

Selected Answer: A

Glacier expedite upvoted 2 times

😑 💄 EA100 1 year ago

Answer - A

Fast availability: Although retrieval times for objects stored in Amazon S3 Glacier typically range from minutes to hours, you can use the Expedited retrievals option to expedite access to your archives. By using Expedited retrievals, the files can be made available in a maximum of five minutes when needed. However, Expedited retrievals do incur higher costs compared to standard retrievals.

upvoted 1 times

😑 🌲 nosense 1 year ago

glacier expedited retrieval times of typically 1-5 minutes. upvoted 4 times

😑 🌡 wsdasdasdqwdaw 7 months, 2 weeks ago

Fully agree. Check here for evidences: https://aws.amazon.com/s3/storageclasses/glacier/#:~:text=S3%20Glacier%20Flexible%20Retrieval%20provides,amounts%20of%20data%20typically%20in

upvoted 1 times

A company is building a three-tier application on AWS. The presentation tier will serve a static website The logic tier is a containerized application. This application will store data in a relational database. The company wants to simplify deployment and to reduce operational costs.

Which solution will meet these requirements?

A. Use Amazon S3 to host static content. Use Amazon Elastic Container Service (Amazon ECS) with AWS Fargate for compute power. Use a managed Amazon RDS cluster for the database.

B. Use Amazon CloudFront to host static content. Use Amazon Elastic Container Service (Amazon ECS) with Amazon EC2 for compute power. Use a managed Amazon RDS cluster for the database.

C. Use Amazon S3 to host static content. Use Amazon Elastic Kubernetes Service (Amazon EKS) with AWS Fargate for compute power. Use a managed Amazon RDS cluster for the database.

D. Use Amazon EC2 Reserved Instances to host static content. Use Amazon Elastic Kubernetes Service (Amazon EKS) with Amazon EC2 for compute power. Use a managed Amazon RDS cluster for the database.

Correct Answer: A

Community vote distribution

A (100%)

E & Yadav_Sanjay Highly Voted 1 year ago

Selected Answer: A ECS is slightly cheaper than EKS upvoted 10 times

😑 🖀 awsgeek75 Most Recent 🕐 5 months ago

Selected Answer: A

B: CloudFront = Extra cost for something they don't want (CDN)

C: Kubernetes is more operationally complex than ECS containers on Fargate.

D: EC2 expensive

A: S3 is cheap for static content. ECS with Fargate is easiest implantation. Managed RDS is very low op overhead upvoted 4 times

😑 🌲 wsdasdasdqwdaw 7 months, 3 weeks ago

Why not B ? upvoted 1 times

😑 🆀 wsdasdasdqwdaw 7 months, 3 weeks ago

Aaa I got it. With CF we are adding additional cost = > A. upvoted 1 times

😑 🌲 cyber_bedouin 6 months, 1 week ago

A is better because ECS Fargate = "containerized application" upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

Use Amazon S3 to host static content. Use Amazon Elastic Container Service (Amazon ECS) with AWS Fargate for compute power. Use a managed Amazon RDS cluster for the database.

upvoted 2 times

🖃 🌲 jaydesai8 11 months ago

Selected Answer: A

S3= hosting static contents Ecs = Little cheaper than EKS RDS = Database upvoted 3 times

😑 🏝 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: A

Use Amazon S3 to host static content. Use Amazon Elastic Container Service (Amazon ECS) with AWS Fargate for compute power. Use a managed Amazon RDS cluster for the database

upvoted 2 times

😑 💄 cloudenthusiast 1 year ago

Selected Answer: A

Amazon S3 is a highly scalable and cost-effective storage service that can be used to host static website content. It provides durability, high availability, and low latency access to the static files.

Amazon ECS with AWS Fargate eliminates the need to manage the underlying infrastructure. It allows you to run containerized applications withou provisioning or managing EC2 instances. This reduces operational overhead and provides scalability.

By using a managed Amazon RDS cluster for the database, you can offload the management tasks such as backups, patching, and monitoring to AWS. This reduces the operational burden and ensures high availability and durability of the database. upvoted 4 times

A company seeks a storage solution for its application. The solution must be highly available and scalable. The solution also must function as a file system be mountable by multiple Linux instances in AWS and on premises through native protocols, and have no minimum size requirements. The company has set up a Site-to-Site VPN for access from its on-premises network to its VPC.

Which storage solution meets these requirements?

A. Amazon FSx Multi-AZ deployments

B. Amazon Elastic Block Store (Amazon EBS) Multi-Attach volumes

C. Amazon Elastic File System (Amazon EFS) with multiple mount targets

D. Amazon Elastic File System (Amazon EFS) with a single mount target and multiple access points

Correct	Answer:	С
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Community vote distribution

C (100%)

😑 👗 Felix_br (Highly Voted 🖬) 1 year ago

Selected Answer: C

The other options are incorrect for the following reasons:

A. Amazon FSx Multi-AZ deployments Amazon FSx is a managed file system service that provides access to file systems that are hosted on Amazor EC2 instances. Amazon FSx does not support native protocols, such as NFS.

B. Amazon Elastic Block Store (Amazon EBS) Multi-Attach volumes Amazon EBS is a block storage service that provides durable, block-level storage volumes for use with Amazon EC2 instances. Amazon EBS Multi-Attach volumes can be attached to multiple EC2 instances at the same time, but they cannot be mounted by multiple Linux instances through native protocols, such as NFS.

D. Amazon Elastic File System (Amazon EFS) with a single mount target and multiple access points A single mount target can only be used to mount the file system on a single EC2 instance. Multiple access points are used to provide access to the file system from different VPCs. upvoted 9 times

😑 💄 unbendable 7 months, 2 weeks ago

Amazon FSx ONTAP supports clients mounting it with NFS. https://docs.aws.amazon.com/fsx/latest/ONTAPGuide/attach-linux-client.html. Though A is not clear about which FSx product is used

upvoted 1 times

😑 🌲 dkw2342 3 months ago

"A single mount target can only be used to mount the file system on a single EC2 instance. Multiple access points are used to provide access to the file system from different VPCs."

This is clearly wrong. You can have exactly one EFS mount target per subnet (AZ), and of course this mount target can be used by many clients (EC2 instances, containers etc.) - see diagram here for example: https://docs.aws.amazon.com/efs/latest/ug/accessing-fs.html

In my opinion, C and D are equally valid answers. upvoted 1 times

😑 🛔 cloudenthusiast (Highly Voted 🖬 1 year ago

Selected Answer: C

Amazon EFS is a fully managed file system service that provides scalable, shared storage for Amazon EC2 instances. It supports the Network File System version 4 (NFSv4) protocol, which is a native protocol for Linux-based systems. EFS is designed to be highly available, durable, and scalable

upvoted 8 times

😑 👗 awsgeek75 Most Recent 🕗 5 months ago

Selected Answer: C

A: FSx is a File Server, not a mountable file system

B: EBS can't be mounted on on-prem devices

D: Access points are not same as mount points

C: EFS support multi mount targets and on-prem devices: https://docs.aws.amazon.com/efs/latest/ug/mounting-fs-mount-helper-direct.html upvoted 2 times

😑 💄 iwannabeawsgod 7 months, 4 weeks ago

EFS POSIX LINUX upvoted 2 times

😑 🌢 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C. Amazon Elastic File System (Amazon EFS) with multiple mount targets

upvoted 2 times

😑 🌡 boubie44 1 year ago

i don't understand why not D? upvoted 1 times

😑 💄 lucdt4 1 year ago

the requirement is mountable by multiple Linux -> C (multiple mount targets) upvoted 2 times

A 4-year-old media company is using the AWS Organizations all features feature set to organize its AWS accounts. According to the company's finance team, the billing information on the member accounts must not be accessible to anyone, including the root user of the member accounts.

Which solution will meet these requirements?

A. Add all finance team users to an IAM group. Attach an AWS managed policy named Billing to the group.

- B. Attach an identity-based policy to deny access to the billing information to all users, including the root user.
- C. Create a service control policy (SCP) to deny access to the billing information. Attach the SCP to the root organizational unit (OU).
- D. Convert from the Organizations all features feature set to the Organizations consolidated billing feature set.

Correct Answer: *C*

Community vote distribution

C (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

Service Control Policies (SCP): SCPs are an integral part of AWS Organizations and allow you to set fine-grained permissions on the organizational units (OUs) within your AWS Organization. SCPs provide central control over the maximum permissions that can be granted to member accounts, including the root user.

Denying Access to Billing Information: By creating an SCP and attaching it to the root OU, you can explicitly deny access to billing information for all accounts within the organization. SCPs can be used to restrict access to various AWS services and actions, including billing-related services.

Granular Control: SCPs enable you to define specific permissions and restrictions at the organizational unit level. By denying access to billing information at the root OU, you can ensure that no member accounts, including root users, have access to the billing information. upvoted 6 times

😑 👗 Kiki_Pass (Highly Voted 🖬) 10 months, 2 weeks ago

but SCP do not apply to the management account (full admin power)? upvoted 5 times

E **& TwinSpark** 1 month ago

i can understand this information coming from the famous course in udemy. I tought same, but after some research i now think it is a wrong information.

"SCPs affect all users and roles in attached accounts, including the root user. The only exceptions are those described in Tasks and entities not restricted by SCPs."

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps.html#:~:text=SCPs%20affect%20all%20users%20and, ffect%20any%20service%2Dlinked%20role.

upvoted 1 times

😑 📥 potomac Most Recent 🕑 7 months, 1 week ago

Selected Answer: C

SCP is for authorization upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C. Create a service control policy (SCP) to deny access to the billing information. Attach the SCP to the root organizational unit (OU) upvoted 2 times

😑 🌲 PRASAD180 11 months, 2 weeks ago

C Crt 100%

upvoted 1 times

E 🌡 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: C

Service control policy are a type of organization policy that you can use to manage permissions in your organization. SCPs offer central control over the maximum available permissions for all accounts in your organization. SCPs help you to ensure your accounts stay within your organization's access control guidelines. SCPs are available only in an organization that has all features enabled. upvoted 2 times

😑 🌲 Abrar2022 1 year ago

By denying access to billing information at the root OU, you can ensure that no member accounts, including root users, have access to the billing information.

upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: C

c for me upvoted 1 times

A solutions architect needs to retain messages that are not delivered and analyze the messages for up to 14 days.

Which solution will meet these requirements with the LEAST development effort?

A. Configure an Amazon SNS dead letter queue that has an Amazon Kinesis Data Stream target with a retention period of 14 days.

B. Add an Amazon Simple Queue Service (Amazon SQS) queue with a retention period of 14 days between the application and Amazon SNS.

C. Configure an Amazon SNS dead letter queue that has an Amazon Simple Queue Service (Amazon SQS) target with a retention period of 14 days.

D. Configure an Amazon SNS dead letter queue that has an Amazon DynamoDB target with a TTL attribute set for a retention period of 14 days.

Correct Answer: C

Community vote distribution

B (29%)

😑 💄 pentium75 (Highly Voted 🖬) 5 months, 1 week ago

C (71%)

Selected Answer: C

"Configuring an Amazon SNS dead-letter queue for a subscription ...

A dead-letter queue is an Amazon SQS queue that an Amazon SNS subscription can target for messages that can't be delivered to subscribers successfully", this is exactly what C says. https://docs.aws.amazon.com/sns/latest/dg/sns-configure-dead-letter-queue.html

B, an SQS queue "between the application and Amazon SNS" would change the application logic. SQS cannot push messages to the "on-premises https endpoint", rather the destination would have to retrieve messages from the queue. Besides, option B would eventually deliver the messages that failed on the first attempt, which is NOT what is asked for. The goal is to retain undeliverable messages for analysis (NOT to deliver them), and this is typically achieved with a dead letter queue.

upvoted 7 times

😑 🌢 osmk Most Recent 🕑 4 months, 4 weeks ago

A dead-letter queue is an Amazon SQS queue that an Amazon SNS subscription can target for messages that can't be delivered to subscribers successfully.https://docs.aws.amazon.com/sns/latest/dg/sns-dead-letter-queues.html upvoted 2 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: C

LEAST development effort!

A: Custom dead letter queue using Kinesis Data Stream (laughable solution!) so lots of coding

B: Change app logic to put SQS between SNS and the app. Also too much coding

D: Same as A, too much code change

C: SNS dead letter queue is by default a SQS que so no coding required

upvoted 3 times

😑 🌲 Mikado211 5 months, 4 weeks ago

Selected Answer: C

Problem here SNS dead letter queue is a SQS queue, so technically speaking both B and C are right. But I suppose that they want us to speak about SNS dead letter queue, that nobody do... meh, frustrating.

upvoted 2 times

😑 🌲 Mikado211 5 months, 4 weeks ago

Aaaah ok.

So with B == you place the SQS queue between the application and the SNS topic with C == you place the SQS queue as a DLQ for the SNS topic

Of course it's C !

upvoted 5 times

😑 💄 aws94 6 months ago

Selected Answer: C

https://docs.aws.amazon.com/sns/latest/dg/sns-configure-dead-letter-queue.html

upvoted 1 times

😑 💄 daniel1 7 months, 3 weeks ago

Selected Answer: C

GPT4 to the rescue:

The most appropriate solution would be to configure an Amazon SNS dead letter queue with an Amazon Simple Queue Service (Amazon SQS) target with a retention period of 14 days (Option C). This setup would ensure that any undelivered messages are retained in the SQS queue for up to 14 days for analysis, with minimal development effort required.

upvoted 1 times

😑 💄 ealpuche 6 months, 2 weeks ago

ChatGPT is not a reliable source. upvoted 8 times

😑 🌲 Wayne23Fang 7 months, 3 weeks ago

Selected Answer: B

I like (B) since it is put SQS before SNS so we could prepare for retention. (C) dead letter Queue is kind of "rescue" effort. Also (C) should mention reprocessing dead letter.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Reprocessing dead letters" is not desired here. They want to "retain messages that are not delivered and analyze the messages for up to 14 days", which is what C does.

upvoted 1 times

😑 💄 thanhnv142 7 months, 3 weeks ago

C is correct. It used a combination of SNS and SQS so it better than B. upvoted 1 times

😑 🌲 iwannabeawsgod 7 months, 4 weeks ago

Selected Answer: C C is the answer

upvoted 1 times

E 🌢 Devsin2000 8 months, 3 weeks ago

B is correct Answer. SQS Retain messages in queues for up to 14 days C is incorrect because there is nothing called Amazon SNS dead letter queue upvoted 2 times

😑 🚢 RDM10 8 months, 3 weeks ago

https://docs.aws.amazon.com/sns/latest/dg/sns-configure-dead-letter-queue.html upvoted 6 times

😑 🌲 pentium75 5 months, 1 week ago

C "Configure an Amazon SNS dead letter queue" AWS "Configuring an Amazon SNS dead-letter queue" https://docs.aws.amazon.com/sns/latest/dg/sns-configure-dead-letter-queue.html upvoted 1 times

😑 💄 lemur88 9 months, 3 weeks ago

Selected Answer: C

https://docs.aws.amazon.com/sns/latest/dg/sns-dead-letter-queues.html upvoted 1 times

😑 🏝 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C. Configure an Amazon SNS dead letter queue that has an Amazon Simple Queue Service (Amazon SQS) target with a retention period of 14 days By using an Amazon SQS queue as the target for the dead letter queue, you ensure that the undelivered messages are reliably stored in a queue for up to 14 days. Amazon SQS allows you to specify a retention period for messages, which meets the retention requirement without additional development effort.

upvoted 1 times

😑 💄 **mtmayer** 10 months ago

Selected Answer: B

Dead Letter is a SQS feature not SNS.

A dead-letter queue is an Amazon SQS queue that an Amazon SNS subscription can target for messages that can't be delivered to subscribers successfully. Messages that can't be delivered due to client errors or server errors are held in the dead-letter queue for further analysis or reprocessing. For more information, see Configuring an Amazon SNS dead-letter queue for a subscription and Amazon SNS message delivery retries.

https://docs.aws.amazon.com/sns/latest/dg/sns-dead-letter-queues.html

upvoted 3 times

😑 🌲 pentium75 5 months, 1 week ago

"See Configuring an Amazon SNS (!) dead-letter queue", exactly, thus C. upvoted 1 times

😑 💄 xyb 10 months, 1 week ago

Selected Answer: B

In SNS, DLQs store the messages that failed to be delivered to subscribed endpoints. For more information, see Amazon SNS Dead-Letter Queues.

In SQS, DLQs store the messages that failed to be processed by your consumer application. This failure mode can happen when producers and consumers fail to interpret aspects of the protocol that they use to communicate. In that case, the consumer receives the message from the queue but fails to process it, as the message doesn't have the structure or content that the consumer expects. The consumer can't delete the message from the queue either. After exhausting the receive count in the redrive policy, SQS can sideline the message to the DLQ. For more information, se Amazon SQS Dead-Letter Queues.

https://aws.amazon.com/blogs/compute/designing-durable-serverless-apps-with-dlqs-for-amazon-sns-amazon-sqs-aws-lambda/ upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

"Configuring an Amazon SNS dead-letter queue for a subscription

A dead-letter queue is an Amazon SQS queue that an Amazon SNS subscription can target for messages that can't be delivered to subscribers successfully. "

upvoted 1 times

😑 🌲 TariqKipkemei 11 months, 3 weeks ago

C is best to handle this requirement. Although good to note that dead-letter queue is an SQS queue.

"A dead-letter queue is an Amazon SQS queue that an Amazon SNS subscription can target for messages that can't be delivered to subscribers successfully. Messages that can't be delivered due to client errors or server errors are held in the dead-letter queue for further analysis or reprocessing."

https://docs.aws.amazon.com/sns/latest/dg/sns-dead-letterqueues.html#:~:text=A%20dead%2Dletter%20queue%20is%20an%20Amazon%20SQS%20queue

upvoted 1 times

😑 🏝 Felix_br 1 year ago

C - Amazon SNS dead letter queues are used to handle messages that are not delivered to their intended recipients. When a message is sent to an Amazon SNS topic, it is first delivered to the topic's subscribers. If a message is not delivered to any of the subscribers, it is sent to the topic's deac letter queue.

Amazon SQS is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverles applications. Amazon SQS queues can be configured to have a retention period, which is the amount of time that messages will be kept in the queue before they are deleted.

To meet the requirements of the company, you can configure an Amazon SNS dead letter queue that has an Amazon SQS target with a retention period of 14 days. This will ensure that any messages that are not delivered to the on-premises warehouse application will be stored in the Amazon SQS queue for up to 14 days. The company can then analyze the messages in the Amazon SQS queue to determine why they were not delivered. upvoted 2 times

😑 🌲 Yadav_Sanjay 1 year ago

Selected Answer: C

https://docs.aws.amazon.com/sns/latest/dg/sns-dead-letter-queues.html upvoted 2 times

A gaming company uses Amazon DynamoDB to store user information such as geographic location, player data, and leaderboards. The company needs to configure continuous backups to an Amazon S3 bucket with a minimal amount of coding. The backups must not affect availability of the application and must not affect the read capacity units (RCUs) that are defined for the table.

Which solution meets these requirements?

A. Use an Amazon EMR cluster. Create an Apache Hive job to back up the data to Amazon S3.

B. Export the data directly from DynamoDB to Amazon S3 with continuous backups. Turn on point-in-time recovery for the table.

C. Configure Amazon DynamoDB Streams. Create an AWS Lambda function to consume the stream and export the data to an Amazon S3 bucket.

D. Create an AWS Lambda function to export the data from the database tables to Amazon S3 on a regular basis. Turn on point-in-time recovery for the table.

Correct Answer: *B*

Community vote distribution

13%

😑 🚨 elmogy (Highly Voted 🖬) 1 year ago

Selected Answer: B

Continuous backups is a native feature of DynamoDB, it works at any scale without having to manage servers or clusters and allows you to export data across AWS Regions and accounts to any point-in-time in the last 35 days at a per-second granularity. Plus, it doesn't affect the read capacity or the availability of your production tables.

https://aws.amazon.com/blogs/aws/new-export-amazon-dynamodb-table-data-to-data-lake-amazon-s3/ upvoted 11 times

😑 🛔 awsgeek75 Most Recent 🕗 5 months ago

Selected Answer: B

A: Impacts RCU

C: Requires coding of Lambda to read from stream to S3

B (87%)

- D: More coding in Lambda
- B: AWS Managed solution with no coding
- upvoted 2 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: B

DynamoDB export to S3 is a fully managed solution for exporting DynamoDB data to an Amazon S3 bucket at scale. upvoted 3 times

😑 🌲 baba365 8 months, 2 weeks ago

A DynamoDB stream is an ordered flow of information about changes to items in a DynamoDB table... for C.U.D events (Create, Update, Delete) and its logs are retained for only 24hrs.

upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Export the data directly from DynamoDB to Amazon S3 with continuous backups. Turn on point-in-time recovery for the table. upvoted 2 times

😑 🌲 ukivanlamlpi 10 months, 1 week ago

Selected Answer: C

continous backup, no impact to availability ==> DynamoDB stream B. export is one off, noy continuous and demand on read capacity upvoted 4 times

□ ▲ hsinchang 10 months, 3 weeks ago

minimal amount of coding rules out Lambda upvoted 3 times

😑 🌲 Chris22usa 11 months, 2 weeks ago

ChatGpt answer is C and it indicates continuous backup process uses DynamoDB stream actually upvoted 2 times

😑 💄 Gajendr 5 months, 3 weeks ago

Wrong.

"DynamoDB full exports are charged based on the size of the DynamoDB table (table data and local secondary indexes) at the point in time for which the export is done. DynamoDB incremental exports are charged based on the size of data processed from your continuous backups for the time period being exported."

https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/S3DataExport.HowItWorks.html

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

ChatGPT is usually wrong on these topics. upvoted 2 times

😑 🌲 TariqKipkemei 11 months, 3 weeks ago

Selected Answer: B

Using DynamoDB table export, you can export data from an Amazon DynamoDB table from any time within your point-in-time recovery window to an Amazon S3 bucket. Exporting a table does not consume read capacity on the table, and has no impact on table performance and availability. upvoted 1 times

😑 💄 norris81 1 year ago

Selected Answer: B

https://repost.aws/knowledge-center/back-up-dynamodb-s3 https://aws.amazon.com/blogs/aws/new-amazon-dynamodb-continuous-backups-and-point-in-time-recovery-pitr/ https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/Streams.Lambda.html

There is no edit upvoted 2 times

😑 💄 cloudenthusiast 1 year ago

Selected Answer: B

Continuous Backups: DynamoDB provides a feature called continuous backups, which automatically backs up your table data. Enabling continuous backups ensures that your table data is continuously backed up without the need for additional coding or manual interventions.

Export to Amazon S3: With continuous backups enabled, DynamoDB can directly export the backups to an Amazon S3 bucket. This eliminates the need for custom coding to export the data.

Minimal Coding: Option B requires the least amount of coding effort as continuous backups and the export to Amazon S3 functionality are built-ir features of DynamoDB.

No Impact on Availability and RCUs: Enabling continuous backups and exporting data to Amazon S3 does not affect the availability of your application or the read capacity units (RCUs) defined for the table. These operations happen in the background and do not impact the table's performance or consume additional RCUs.

upvoted 3 times

😑 🌡 Efren 1 year ago

Selected Answer: B

DynamoDB Export to S3 feature

Using this feature, you can export data from an Amazon DynamoDB table anytime within your point-in-time recovery window to an Amazon S3 bucket.

upvoted 2 times

😑 🌡 Efren 1 year ago

B also for me upvoted 2 times

😑 💄 norris81 1 year ago

https://repost.aws/knowledge-center/back-up-dynamodb-s3 https://aws.amazon.com/blogs/aws/new-amazon-dynamodb-continuous-backups-and-point-in-time-recovery-pitr/ https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/Streams.Lambda.html

1 1 4 1

upvoted 1 times

😑 💄 Efren 1 year ago

you could mention what is the best answer from you :) upvoted 1 times

Which solution will meet these requirements MOST cost-effectively?

A. Use AWS Lambda event source mapping. Set Amazon Simple Queue Service (Amazon SQS) standard queues as the event source. Use AWS Key Management Service (SSE-KMS) for encryption. Add the kms:Decrypt permission for the Lambda execution role.

B. Use AWS Lambda event source mapping. Use Amazon Simple Queue Service (Amazon SQS) FIFO queues as the event source. Use SQS managed encryption keys (SSE-SQS) for encryption. Add the encryption key invocation permission for the Lambda function.

C. Use the AWS Lambda event source mapping. Set Amazon Simple Queue Service (Amazon SQS) FIFO queues as the event source. Use AWS KMS keys (SSE-KMS). Add the kms:Decrypt permission for the Lambda execution role.

D. Use the AWS Lambda event source mapping. Set Amazon Simple Queue Service (Amazon SQS) standard queues as the event source. Use AWS KMS keys (SSE-KMS) for encryption. Add the encryption key invocation permission for the Lambda function.

Correct Answer: A

Community vote distribution A (71%)

B (26%)

😑 🌲 elmogy (Highly Voted 🖬 1 year ago

Selected Answer: A

SQS FIFO is slightly more expensive than standard queue https://calculator.aws/#/addService/SQS

I would still go with the standard because of the keyword "at least once" because FIFO process "exactly once". That leaves us with A and D, I believ that lambda function only needs to decrypt so I would choose A upvoted 9 times

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: B

Using SQS FIFO queues ensures each message is processed at least once in order. SSE-SQS provides encryption that is handled entirely by SQS without needing decrypt permissions.

Standard SQS queues (Options A and D) do not guarantee order.

Using KMS keys (Options C and D) requires providing the Lambda role with decrypt permissions, adding complexity.

SQS FIFO queues with SSE-SQS encryption provide orderly, secure, server-side message processing that Lambda can consume without needing to manage decryption. This is the most efficient and cost-effective approach. upvoted 6 times

E 🌢 Clouddon 8 months, 3 weeks ago

Amazon SQS offers standard as the default queue type. Standard queues support a nearly unlimited number of API calls per second, per API action (SendMessage, ReceiveMessage, or DeleteMessage). Standard queues support at-least-once message delivery. However, occasionally (because of the highly distributed architecture that allows nearly unlimited throughput), more than one copy of a message might be delivered out of order. Standard queues provide best-effort ordering which ensures that messages are generally delivered in the same order as they're sent.Whereas, FIFO (First-In-First-Out) queues have all the capabilities of the standard queues, but are designed to enhance messaging between applications when the order of operations and events is critical, or where duplicates can't be tolerated. (is correct) upvoted 3 times

😑 🌲 pentium75 5 months, 1 week ago

But permissions are added to Lambda execution roles, not functions upvoted 4 times

□ ▲ JackyCCK Most Recent ② 3 months, 2 weeks ago

D is not FIFO either upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: A

"Process each request at least once" = Standard queue, rules out B and C which use more expensive FIFO queue

Permissions are added to Lambda execution roles, not Lambda functions, thus D is out. upvoted 6 times

😑 💄 EdenWang 6 months, 4 weeks ago

Selected Answer: B

With the SSE-SQS encryption type, you do not need to create, manage, or pay for SQS-managed encryption keys. upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

And what the hell is "encryption key invocation permission for the Lambda function"? upvoted 4 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

Initially though it is B, but it is said that the messages should be processed at lest once, not the same order, and Standard SQS is "almost" FIFO, which changed my opinion and I would go with A as correct.

upvoted 3 times

😑 🌲 BrijMohan08 9 months, 1 week ago

Selected Answer: A

https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/standard-queues.html upvoted 3 times

😑 💄 hsinchang 10 months, 3 weeks ago

Least Privilege Policy leads to A over D. upvoted 1 times

😑 💄 TariqKipkemei 11 months ago

Selected Answer: B

Considering this is credit card validation process, there needs to be a strict 'process exactly once' policy offered by the SQS FIFO, and also SQS already supports server-side encryption with customer-provided encryption keys using the AWS Key Management Service (SSE-KMS) or using SQS owned encryption keys (SSE-SQS). Both encryption options greatly reduce the operational burden and complexity involved in protecting data. Additionally, with the SSE-SQS encryption type, you do not need to create, manage, or pay for SQS-managed encryption keys. Therefore option B stands out for me.

upvoted 1 times

😑 🌲 TariqKipkemei 7 months, 1 week ago

I retract my answer and change it to A, there is a requirement to process each request 'at least once'. Only standard queues can deliver messages at least once.

There is also a requirement for the most 'cost-effective' option. Standard queues are the cheaper option.

https://aws.amazon.com/sqs/pricing/#:~:text=SQS%20requests%20priced%3F

upvoted 2 times

😑 🌲 darren_song 11 months, 1 week ago

Selected Answer: A

https://docs.aws.amazon.com/zh_tw/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-least-privilege-policy.html upvoted 1 times

😑 🌲 Abrar2022 1 year ago

Selected Answer: A

at least once and cost effective suggests SQS standard upvoted 1 times

😑 💄 Felix_br 1 year ago

Selected Answer: B

Solution B is the most cost-effective solution to meet the requirements of the application.

Amazon Simple Queue Service (SQS) FIFO queues are a good choice for this application because they guarantee that messages are processed in the order in which they are received. This is important for credit card data validation because it ensures that fraudulent transactions are not processed before legitimate transactions.

SQS managed encryption keys (SSE-SQS) are a good choice for encrypting the messages in the SQS queue because they are free to use. AWS Key Management Service (KMS) keys (SSE-KMS) are also a good choice for encrypting the messages, but they do incur a cost. upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

"They guarantee that messages are processed in the order in which they are received. This is important" but not asked for! upvoted 2 times

😑 🌡 omoakin 1 year ago

AAAAAAAA upvoted 1 times

😑 🏝 Yadav_Sanjay 1 year ago

Selected Answer: A

should be A. Key word - at least once and cost effective suggests SQS standard upvoted 2 times

😑 👗 Efren 1 year ago

It has to be default, no FIFO. It doesnt say just one, it says at least once, so that is default queue that is cheaper than FIFO. Between the default options, nto sure to be honest

upvoted 3 times

😑 💄 jayce5 1 year ago

No, when it comes to "credit card data validation," it should be FIFO. If you use the standard approach, there is a chance that people who come after will get processed before those who come first.

upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Question clearly says "process each request at least once" which is the description of a standard queue. Your opinion how these transactions should be processed does not matter if it contradicts the requirements given.

Besides, it is about "credit card data validation", NOT payments. Nothing happens if they check twice is your credit card is valid. upvoted 1 times

😑 💄 awwass 1 year ago

Selected Answer: A

I guess A upvoted 1 times

😑 💄 awwass 1 year ago

This solution uses standard queues in Amazon SQS, which are less expensive than FIFO queues. It also uses AWS Key Management Service (SSE KMS) for encryption, which is a cost-effective way to encrypt data at rest and in transit. The kms:Decrypt permission is added to the Lambda execution role to allow it to decrypt messages from the queue

upvoted 1 times

😑 👗 Rob1L 1 year ago

Selected Answer: A

Options B, C and D involve using SQS FIFO queues, which guarantee exactly once processing, which is more expensive and more than necessary fc the requirement of at least once processing.

upvoted 4 times

A company has multiple AWS accounts for development work. Some staff consistently use oversized Amazon EC2 instances, which causes the company to exceed the yearly budget for the development accounts. The company wants to centrally restrict the creation of AWS resources in these accounts.

Which solution will meet these requirements with the LEAST development effort?

A. Develop AWS Systems Manager templates that use an approved EC2 creation process. Use the approved Systems Manager templates to provision EC2 instances.

B. Use AWS Organizations to organize the accounts into organizational units (OUs). Define and attach a service control policy (SCP) to control the usage of EC2 instance types.

C. Configure an Amazon EventBridge rule that invokes an AWS Lambda function when an EC2 instance is created. Stop disallowed EC2 instance types.

D. Set up AWS Service Catalog products for the staff to create the allowed EC2 instance types. Ensure that staff can deploy EC2 instances only by using the Service Catalog products.

Correct Answer: *B*

Community vote distribution

B (94%)

6%

😑 🌲 omarshaban 4 months, 3 weeks ago

IN MY EXAM upvoted 3 times

😑 💄 Cyberkayu 5 months, 3 weeks ago

Selected Answer: B

B. Multiple AWS account, consolidate under one AWS Organization, top down policy (SCP) to all member account to restrict EC2 Type. upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Use AWS Organizations to organize the accounts into organizational units (OUs). Define and attach a service control policy (SCP) to control the usage of EC2 instance types.

upvoted 2 times

😑 👗 Ale1973 10 months, 1 week ago

Selected Answer: D

I have a question regarding this answer, what do they mean by "development effort"?:

If they mean the work it takes to implement the solution (using develop as implement), option B achieves the constraint with little administrative overhead (there is less to do to configure this option).

If by "development effort", they mean less effort for the development team, when development team try to deploy instances and gets errors because they are not allowed, this generates overhead. In this case the best option is D.

What did you think?

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Development effort" = Develop the solution that the question asks for. We don't care about the developers whose permissions we want to restrict.

upvoted 3 times

😑 💄 TariqKipkemei 11 months ago

Selected Answer: B

Use AWS Organizations to organize the accounts into organizational units (OUs). Define and attach a service control policy (SCP) to control the usage of EC2 instance types upvoted 2 times

😑 🌲 alexandercamachop 1 year ago

Selected Answer: B

Anytime you see Multiple AWS Accounts, and needs to consolidate is AWS Organization. Also anytime we need to restrict anything in an organization, it is SCP policies.

upvoted 4 times

😑 🌡 Blingy 1 year ago

😑 💄 elmogy 1 year ago

Selected Answer: B

I would choose B

The other options would require some level of programming or custom resource creation:

A. Developing Systems Manager templates requires development effort

C. Configuring EventBridge rules and Lambda functions requires development effort

D. Creating Service Catalog products requires development effort to define the allowed EC2 configurations.

Option B - Using Organizations service control policies - requires no custom development. It involves:

Organizing accounts into OUs

Creating an SCP that defines allowed/disallowed EC2 instance types

Attaching the SCP to the appropriate OUs

This is a native AWS service with a simple UI for defining and managing policies. No coding or resource creation is needed. So option B, using Organizations service control policies, will meet the requirements with the least development effort. upvoted 3 times

😑 💄 cloudenthusiast 1 year ago

Selected Answer: B

AWS Organizations: AWS Organizations is a service that helps you centrally manage multiple AWS accounts. It enables you to group accounts into organizational units (OUs) and apply policies across those accounts.

Service Control Policies (SCPs): SCPs in AWS Organizations allow you to define fine-grained permissions and restrictions at the account or OU level By attaching an SCP to the development accounts, you can control the creation and usage of EC2 instance types.

Least Development Effort: Option B requires minimal development effort as it leverages the built-in features of AWS Organizations and SCPs. You can define the SCP to restrict the use of oversized EC2 instance types and apply it to the appropriate OUs or accounts. upvoted 3 times

😑 🌲 Efren 1 year ago

B for me as well upvoted 1 times

Question #493

A company wants to use artificial intelligence (AI) to determine the quality of its customer service calls. The company currently manages calls in four different languages, including English. The company will offer new languages in the future. The company does not have the resources to regularly maintain machine learning (ML) models.

The company needs to create written sentiment analysis reports from the customer service call recordings. The customer service call recording text must be translated into English.

Which combination of steps will meet these requirements? (Choose three.)

A. Use Amazon Comprehend to translate the audio recordings into English.

B. Use Amazon Lex to create the written sentiment analysis reports.

C. Use Amazon Polly to convert the audio recordings into text.

D. Use Amazon Transcribe to convert the audio recordings in any language into text.

E. Use Amazon Translate to translate text in any language to English.

F. Use Amazon Comprehend to create the sentiment analysis reports.

Correct Answer: *DEF*

Community vote distribution

DEF (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: DEF

A: Comprehend cannot translate

B: Lex is like a chatbot so not useful

C: Polly converts text to audio (polly the parrot!) so this is wrong

D: Can convert audio to text

E: Can translate

F: Can do sentiment analysis reports

upvoted 3 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

It is: DEF upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: DEF

D. Use Amazon Transcribe to convert the audio recordings in any language into text.

E. Use Amazon Translate to translate text in any language to English.

F. Use Amazon Comprehend to create the sentiment analysis reports. upvoted 2 times

😑 🏝 TariqKipkemei 11 months ago

Selected Answer: DEF

Amazon Transcribe to convert speech to text. Amazon Translate to translate text to english. Amazon Comprehend to perform sentiment analysis or translated text. upvoted 1 times

HareshPrajapati 1 year ago afree with DEF

upvoted 1 times

Blingy 1 year ago I'd go with DEF too upvoted 2 times

😑 🌡 elmogy 1 year ago

Selected Answer: DEF

agree with DEF upvoted 2 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: DEF

Amazon Transcribe will convert the audio recordings into text, Amazon Translate will translate the text into English, and Amazon Comprehend will perform sentiment analysis on the translated text to generate sentiment analysis reports. upvoted 4 times

😑 🌡 Efren 1 year ago

agreed as well, weird upvoted 1 times

😑 🛔 Guru4Cloud 9 months, 3 weeks ago

@efren - It is not weird - This need to know the services for it upvoted 2 times

The administrator is using an IAM role that has the following IAM policy attached:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": ["ec2:TerminateInstances"],
            "Resource": ["*"]
        },
        {
            "Effect": "Deny",
             "Action": ["ec2:TerminateInstances"],
             "Condition": {
                 "NotIpAddress": (
                     "aws:SourceIp": [
                         "192.0.2.0/24",
                         "203.0.113.0/24"
                     1
                 }
            ),
            "Resource": ["*"]
        }
    ]
1
```

What is the cause of the unsuccessful request?

A. The EC2 instance has a resource-based policy with a Deny statement.

B. The principal has not been specified in the policy statement.

C. The "Action" field does not grant the actions that are required to terminate the EC2 instance.

D. The request to terminate the EC2 instance does not originate from the CIDR blocks 192.0.2.0/24 or 203.0.113.0/24.

Correct Answer: D

Community vote distribution

D (100%)

😑 🌲 chasingsummer 5 months ago

Selected Answer: D I ran a Policy Simulator and indeed, D is right answer.

```
Here is the JSON policy:
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": "ec2:TerminateInstances",
"Resource": "*"
},
{
"Effect": "Deny",
"Action": "ec2:TerminateInstances",
"Condition": {
"NotlpAddress": {
"aws:Sourcelp" : [
"192.0.2.0/24",
```

"203.0.113.0/24"
]
}
},
"Resource": "*"
}
]
}

upvoted 1 times

😑 💄 chasingsummer 5 months ago

The condition operator is "NotIpAddress" so I am not sure about D as right answer. upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Deny when IP address is not in (NotIPAddress). AWS has a weird way of stating Deny and it almost sound like double negative meaning positive But read this doc for more clarity:

https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_deny-ip.html

It has the exact same example! Good luck! upvoted 1 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: D

If you want to read more about this, see how it works: https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_deny ip.html

Same policy as in this question with almost same use case.

D is correct answer.

upvoted 2 times

😑 🌲 TariqKipkemei 11 months ago

Selected Answer: D

the command is coming from a source IP which is not in the allowed range. upvoted 4 times

😑 💄 elmogy 1 year ago

Selected Answer: D

" aws:SourceIP " indicates the IP address that is trying to perform the action. upvoted 1 times

😑 🌲 nosense 1 year ago

Selected Answer: D

d for sure

upvoted 2 times

Which solution will meet these requirements?

- A. Configure AWS Audit Manager on the account. Select the Payment Card Industry Data Security Standards (PCI DSS) for auditing.
- B. Configure Amazon S3 Inventory on the S3 bucket Configure Amazon Athena to query the inventory.
- C. Configure Amazon Macie to run a data discovery job that uses managed identifiers for the required data types.
- D. Use Amazon S3 Select to run a report across the S3 bucket.

Correct Answer: C

Community vote distribution

C (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: C PII or sensitive data = Macie upvoted 3 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Configure Amazon Macie to run a data discovery job that uses managed identifiers for the required data types. upvoted 2 times

😑 🌡 TariqKipkemei 11 months ago

Selected Answer: C

Amazon Macie is a data security service that uses machine learning (ML) and pattern matching to discover and help protect your sensitive data. upvoted 2 times

😑 📥 Blingy 1 year ago

Macie = Sensitive PII upvoted 4 times

😑 📥 elmogy 1 year ago

Selected Answer: C agree with C upvoted 4 times

😑 🏝 cloudenthusiast 1 year ago

Selected Answer: C

Amazon Macie is a service that helps discover, classify, and protect sensitive data stored in AWS. It uses machine learning algorithms and managed identifiers to detect various types of sensitive information, including personally identifiable information (PII) and financial information. By configuring Amazon Macie to run a data discovery job with the appropriate managed identifiers for the required data types (such as passport numbers and credit card numbers), the company can identify and classify any sensitive data present in the S3 bucket.

upvoted 3 times

A company uses on-premises servers to host its applications. The company is running out of storage capacity. The applications use both block storage and NFS storage. The company needs a high-performing solution that supports local caching without re-architecting its existing applications.

Which combination of actions should a solutions architect take to meet these requirements? (Choose two.)

A. Mount Amazon S3 as a file system to the on-premises servers.

B. Deploy an AWS Storage Gateway file gateway to replace NFS storage.

C. Deploy AWS Snowball Edge to provision NFS mounts to on-premises servers.

D. Deploy an AWS Storage Gateway volume gateway to replace the block storage.

E. Deploy Amazon Elastic File System (Amazon EFS) volumes and mount them to on-premises servers.

Correct Answer: *BD*

Community vote distribution

BD (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: BD

By combining the deployment of an AWS Storage Gateway file gateway and an AWS Storage Gateway volume gateway, the company can address both its block storage and NFS storage needs, while leveraging local caching capabilities for improved performance. upvoted 5 times

😑 🛔 awsgeek75 Most Recent 🕐 5 months ago

Selected Answer: BD

A: Not possible

C: Snowball edge is snowball with computing. It's not a NAS!

E: Technically yes but requires VPN or Direct Connect so re-architecture

B & D both use Storage Gateway which can be used as NFS and Block storage

https://aws.amazon.com/storagegateway/

upvoted 2 times

😑 🌲 ftaws 5 months, 3 weeks ago

Use the Storage Gateway -> It means that use S3 for storage ? upvoted 2 times

😑 💄 thanhnv142 7 months, 3 weeks ago

DE

B is not correct be cause NFS is a file system while storage gw is a storage. To replace a file system, need another file system which is EFS. upvoted 2 times

😑 🌲 wizcloudifa 1 month, 2 weeks ago

if you focus on the wording of option B its "Storage gateway File gateway" not volume gateway hence it is perfect replacement for NFS files. upvoted 1 times

😑 🌲 Tekk97 6 months, 3 weeks ago

That's what i thought. but I think B is work too.

upvoted 1 times

E & TariqKipkemei 11 months ago

Selected Answer: BD

Deploy an AWS Storage Gateway file gateway to replace NFS storage Deploy an AWS Storage Gateway volume gateway to replace the block storage upvoted 2 times

😑 🌲 elmogy 1 year ago

Selected Answer: BD

local caching is a key feature of AWS Storage Gateway solution https://aws.amazon.com/storagegateway/features/

https://aws.amazon.com/blogs/storage/aws-storage-gateway-increases-cache-4x-and-enhances-bandwidth-

throttling/#:~:text=AWS%20Storage%20Gateway%20increases%20cache%204x%20and%20enhances,for%20Volume%20Gateway%20customers%20...%205%20Conclusion%20

upvoted 3 times

upvoted 1 times

Question #497

Topic 1

A company has a service that reads and writes large amounts of data from an Amazon S3 bucket in the same AWS Region. The service is deployed on Amazon EC2 instances within the private subnet of a VPC. The service communicates with Amazon S3 over a NAT gateway in the public subnet. However, the company wants a solution that will reduce the data output costs.

Which solution will meet these requirements MOST cost-effectively?

A. Provision a dedicated EC2 NAT instance in the public subnet. Configure the route table for the private subnet to use the elastic network interface of this instance as the destination for all S3 traffic.

B. Provision a dedicated EC2 NAT instance in the private subnet. Configure the route table for the public subnet to use the elastic network interface of this instance as the destination for all S3 traffic.

C. Provision a VPC gateway endpoint. Configure the route table for the private subnet to use the gateway endpoint as the route for all S3 traffic.

D. Provision a second NAT gateway. Configure the route table for the private subnet to use this NAT gateway as the destination for all S3 traffic.

Correct Answer: C

Community vote distribution

C (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

A VPC gateway endpoint allows you to privately access Amazon S3 from within your VPC without using a NAT gateway or NAT instance. By provisioning a VPC gateway endpoint for S3, the service in the private subnet can directly communicate with S3 without incurring data transfer costs for traffic going through a NAT gateway.

upvoted 8 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: C

As a rule of thumb, EC2<->S3 in your workload should always try to use a VPC gateway unless there is an explicit restriction (account etc.) which disallows it.

upvoted 3 times

Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Using a VPC endpoint for S3 allows the EC2 instances to access S3 directly over the Amazon network without traversing the internet. This significantly reduces data output charges.

upvoted 2 times

😑 🌲 TariqKipkemei 11 months ago

Selected Answer: C

use VPC gateway endpoint to route traffic internally and save on costs. upvoted 1 times

😑 🌲 elmogy 1 year ago

Selected Answer: C

private subnet needs to communicate with S3 --> VPC endpoint right away

upvoted 2 times

A company uses Amazon S3 to store high-resolution pictures in an S3 bucket. To minimize application changes, the company stores the pictures as the latest version of an S3 object. The company needs to retain only the two most recent versions of the pictures.

The company wants to reduce costs. The company has identified the S3 bucket as a large expense.

Which solution will reduce the S3 costs with the LEAST operational overhead?

A. Use S3 Lifecycle to delete expired object versions and retain the two most recent versions.

B. Use an AWS Lambda function to check for older versions and delete all but the two most recent versions.

C. Use S3 Batch Operations to delete noncurrent object versions and retain only the two most recent versions.

D. Deactivate versioning on the S3 bucket and retain the two most recent versions.

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: A

B: Too much work with Lambda

C: Possible but requires lot of work

D: Oxymoron statement... i.e. how do you remove version and retain version at same time without additional overhead? Custom solution may be more work.

A: S3 Lifecycle is designed to retain object and version with set criteria upvoted 3 times

Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

Use S3 Lifecycle to delete expired object versions and retain the two most recent versions. upvoted 2 times

😑 🌲 TariqKipkemei 11 months ago

Selected Answer: A

S3 Lifecycle to the rescue...whoooosh upvoted 2 times

😑 💄 VellaDevil 11 months, 1 week ago

Selected Answer: A

A --> "you can also provide a maximum number of noncurrent versions to retain." https://docs.aws.amazon.com/AmazonS3/latest/userguide/intro-lifecycle-rules.html upvoted 3 times

😑 🏝 antropaws 1 year ago

Selected Answer: A A is correct. upvoted 2 times

😑 💄 Konb 1 year ago

Selected Answer: A

Agree with LONGMEN upvoted 3 times

😑 💄 cloudenthusiast 1 year ago

Selected Answer: A

S3 Lifecycle policies allow you to define rules that automatically transition or expire objects based on their age or other criteria. By configuring an S3 Lifecycle policy to delete expired object versions and retain only the two most recent versions, you can effectively manage the storage costs while maintaining the desired retention policy. This solution is highly automated and requires minimal operational overhead as the lifecycle management is handled by S3 itself.

upvoted 4 times

Which solution will meet these requirements?

A. Set up a new 1 Gbps Direct Connect connection. Share the connection with another AWS account.

- B. Set up a new 200 Mbps Direct Connect connection in the AWS Management Console.
- C. Contact an AWS Direct Connect Partner to order a 1 Gbps connection. Share the connection with another AWS account.
- D. Contact an AWS Direct Connect Partner to order a 200 Mbps hosted connection for an existing AWS account.

r: <i>B</i> <i>ote distribution</i> D (82%)	B (18%)
	B (18%)
D (82%)	B (18%)
22 (Highly Voted 🗤) 1 year ago	
ver: D	
nnection 50 Mbps, 100 Mbps,	
Connection 1 Gbps, 10 Gbps, a	and 100 Gbps
mes	
Nost Recent 🕗 3 months, 2 weeks a	ago
ver: D	
nnot directly adjust the speed	of an existing Direct Connect connection through the AWS Management Console.
lifying the speed of your conn	Connect connection, you typically need to contact your Direct Connect service provider. They can a nection based on your requirements. Depending on the provider, this process may involve submitting to initiate the necessary changes. Keep in mind that adjusting the speed of your Direct Connect and billing considerations.
	nnection 50 Mbps, 100 Mbps, Connection 1 Gbps, 10 Gbps, mes Most Recent ③ 3 months, 2 weeks ver: D nnot directly adjust the speed he speed of an existing Direct lifying the speed of your conn contacting their support team

😑 🏝 awsgeek75 5 months ago

Selected Answer: D

- A: Not secure as sharing with another account
- B: I don't think this possible as you need ISP to setup Direct Connect
- C: Less secure due to sharing

D: Direct connect partners can provide hosted solutions for existing accounts so correct answer upvoted 3 times

😑 🌲 awsgeek75 5 months ago

For B I'm wrong above, it's because you cannot order 200MB connection through management console. upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: D

< 1 Gbps = Hosted (through partner) upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

If you already have an existing AWS Direct Connect connection configured at 1 Gbps, and you wish to reduce the connection bandwidth to 200 Mbps to minimize costs, you should indeed contact your AWS Direct Connect Partner and request to lower the connection speed to 200 Mbps. upvoted 3 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

I meant D.. DDDDDDDDD upvoted 5 times

😑 👗 omoakin 1 year ago upvoted 1 times

😑 📥 elmogy 1 year ago

Selected Answer: D

company need to setup a cheaper connection (200 M) but B is incorrect because you can only order port speeds of 1, 10, or 100 Gbps for more flexibility you can go with hosted connection, You can order port speeds between 50 Mbps and 10 Gbps.

https://docs.aws.amazon.com/whitepapers/latest/aws-vpc-connectivity-options/aws-direct-connect.html upvoted 3 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: B

By opting for a lower capacity 200 Mbps connection instead of the 1 Gbps connection, the company can significantly reduce costs. This solution ensures a dedicated and secure connection while aligning with the company's low utilization, resulting in cost savings. upvoted 3 times

😑 🏝 pentium75 5 months, 1 week ago

But 200M cannot be ordered through Management Console, only partners. upvoted 2 times

😑 🌲 norris81 1 year ago

Selected Answer: D

D

For Dedicated Connections, 1 Gbps, 10 Gbps, and 100 Gbps ports are available. For Hosted Connections, connection speeds of 50 Mbps, 100 Mbp: 200 Mbps, 300 Mbps, 400 Mbps, 500 Mbps, 1 Gbps, 2 Gbps, 5 Gbps and 10 Gbps may be ordered from approved AWS Direct Connect Partners. Se AWS Direct Connect Partners for more information.

upvoted 4 times

😑 💄 nosense 1 year ago

Selected Answer: D

A hosted connection is a lower-cost option that is offered by AWS Direct Connect Partners upvoted 4 times

😑 👗 Efren 1 year ago

Also, there are not 200 MBps direct connection speed. upvoted 1 times

😑 💄 nosense 1 year ago

Hosted Connection 50 Mbps, 100 Mbps, 200 Mbps, Dedicated Connection 1 Gbps, 10 Gbps, and 100 Gbps B would require the company to purchase additional hardware or software upvoted 2 times

A company has multiple Windows file servers on premises. The company wants to migrate and consolidate its files into an Amazon FSx for Windows File Server file system. File permissions must be preserved to ensure that access rights do not change.

Which solutions will meet these requirements? (Choose two.)

A. Deploy AWS DataSync agents on premises. Schedule DataSync tasks to transfer the data to the FSx for Windows File Server file system.

B. Copy the shares on each file server into Amazon S3 buckets by using the AWS CLI. Schedule AWS DataSync tasks to transfer the data to the FSx for Windows File Server file system.

C. Remove the drives from each file server. Ship the drives to AWS for import into Amazon S3. Schedule AWS DataSync tasks to transfer the data to the FSx for Windows File Server file system.

D. Order an AWS Snowcone device. Connect the device to the on-premises network. Launch AWS DataSync agents on the device. Schedule DataSync tasks to transfer the data to the FSx for Windows File Server file system.

E. Order an AWS Snowball Edge Storage Optimized device. Connect the device to the on-premises network. Copy data to the device by using the AWS CLI. Ship the device back to AWS for import into Amazon S3. Schedule AWS DataSync tasks to transfer the data to the FSx for Windows File Server file system.

Correct Answer: AD

Community vote distribution

AD (94%)

6%

😑 👗 cloudenthusiast (Highly Voted 🖬 1 year ago

Selected Answer: AD

A This option involves deploying DataSync agents on your on-premises file servers and using DataSync to transfer the data directly to the FSx for Windows File Server. DataSync ensures that file permissions are preserved during the migration process. D

This option involves using an AWS Snowcone device, a portable data transfer device. You would connect the Snowcone device to your on-premise: network, launch DataSync agents on the device, and schedule DataSync tasks to transfer the data to FSx for Windows File Server. DataSync handles the migration process while preserving file permissions.

upvoted 6 times

😑 🛔 pentium75 (Most Recent 🕐) 5 months, 1 week ago

Selected Answer: AD

B, C and E would copy the files to S3 first where permissions would be lost upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: BD
Why not - BD?
upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

° This option uses S3 as an intermediary, ensuring that file permissions are preserved during the initial data copy. DataSync can then transfer th data from S3 to FSx while maintaining the permissions.

° This option uses a Snowcone device with DataSync agents to replicate the on-premises permission structure directly to FSx. This approach is suitable for maintaining file permissions during migration. upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

B copies the data to S3 first where file permissions would be lost. upvoted 2 times

😑 🌲 elmogy 1 year ago

Selected Answer: AD

the key is file permissions are preserved during the migration process. only datasync supports that upvoted 4 times

😑 🌲 coolkidsclubvip 10 months ago

Bro,all 5 answers mentioned Datasync..... upvoted 4 times

😑 💄 Devsin2000 8 months, 3 weeks ago

Yes but AD have only DataSync, whereas others have others have AWS CLI used. upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: AD

Option B would require copy the data to Amazon S3 before transferring it to Amazon FSx for Windows File Server Option C would require the company to remove the drives from each file server and ship them to AWS upvoted 2 times

😑 💄 barracouto 10 months ago

Also, S3 doesn't retain permissions because it isn't a file system. upvoted 3 times

A company wants to ingest customer payment data into the company's data lake in Amazon S3. The company receives payment data every minute on average. The company wants to analyze the payment data in real time. Then the company wants to ingest the data into the data lake.

Which solution will meet these requirements with the MOST operational efficiency?

A. Use Amazon Kinesis Data Streams to ingest data. Use AWS Lambda to analyze the data in real time.

B. Use AWS Glue to ingest data. Use Amazon Kinesis Data Analytics to analyze the data in real time.

C. Use Amazon Kinesis Data Firehose to ingest data. Use Amazon Kinesis Data Analytics to analyze the data in real time.

D. Use Amazon API Gateway to ingest data. Use AWS Lambda to analyze the data in real time.

Correct Answer: A

Community vote distribution

C (92%)

8%

😑 🛔 Axeashes (Highly Voted 🖬) 12 months ago

Kinesis Data Firehose is near real time (min. 60 sec). - The question is focusing on real time processing/analysis + efficiency -> Kinesis Data Stream is real time ingestion.

https://www.amazonaws.cn/en/kinesis/data-firehose/#:~:text=Near%20real%2Dtime,is%20sent%20to%20the%20service. upvoted 11 times

😑 🌲 Axeashes 12 months ago

Unless the intention is real time analytics not real time ingestion ! upvoted 3 times

😑 📥 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

By leveraging the combination of Amazon Kinesis Data Firehose and Amazon Kinesis Data Analytics, you can efficiently ingest and analyze the payment data in real time without the need for manual processing or additional infrastructure management. This solution provides a streamlined and scalable approach to handle continuous data ingestion and analysis requirements. upvoted 9 times

😑 👗 wizcloudifa (Most Recent 🕗) 1 month, 2 weeks ago

Selected Answer: C

Kinesis Firehouse = ingesting Kinesis Datastreams = storing Kinesis analytics = doing analysis upvoted 3 times

😑 🏝 awsgeek75 5 months ago

Selected Answer: C

Data is stored on S3 so real-time data analytics can be done with Kinesis Data Analytics which rules out Lambda solutions (A and D) as they are more operationally complex.

B is not useful it is more of ETL.

Firehose is actually to distribute data but given that company is already receiving data somehow so Firehose can basically distribute it to S3 with minimum latency. I have to admit this was confusing. I would have used Kinesis Streams to store on S3 and Data Analytics but combination is confusing!

upvoted 2 times

😑 🌲 Mr_Marcus 1 week, 4 days ago

"Data is stored on S3..." Nope. Re-read the first sentence. S3 is the destination, not the source. The task is to ingest, analyze in real time, and store in S3. upvoted 1 times

😑 💄 1rob 6 months, 2 weeks ago

Selected Answer: C

"payment data every minute on average" is a good-to-go- for firehose. Also firehose is more operational efficient compared to Data Streams. upvoted 2 times

😑 🌲 lucasbg 6 months, 2 weeks ago

Selected Answer: A

I think this is A. The purpose of Firehose is to ingest and deliver to a data store, no to an analytics service. And in fact you can use lambda for real time analysis, such I find A more aligned.

upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

But developing and maintaining a custom Lambda function "to analyze the data in real time" is surely not as 'operationally efficient' as using ar existing service such as Kinesis Data Analytics.

upvoted 2 times

😑 💄 DDongi 7 months, 4 weeks ago

Firehose has a 60 sec delay so real time analytics should be without real time data isn't that problematic? Why would you have then real time analytics then in the first place?

upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Kinesis Data Streams focuses on ingesting and storing data streams while Kinesis Data Firehose focuses on delivering data streams to select destinations, as the motive of the question is to do analytics, the answer should be C. upvoted 2 times

😑 🌲 hsinchang 10 months, 3 weeks ago

Selected Answer: C

Kinesis Data Streams focuses on ingesting and storing data streams while Kinesis Data Firehose focuses on delivering data streams to select destinations, as the motive of the question is to do analytics, the answer should be C. upvoted 1 times

😑 👗 james2033 11 months ago

Selected Answer: C

Quote "Connect with 30+ fully integrated AWS services and streaming destinations such as Amazon Simple Storage Service (S3)" at https://aws.amazon.com/kinesis/data-firehose/ . Amazon Kinesis Data Analystics https://aws.amazon.com/kinesis/data-analytics/ upvoted 1 times

😑 💄 TariqKipkemei 11 months ago

Selected Answer: C

Use Kinesis Firehose to capture and deliver the data to Kinesis Analytics to perform analytics. upvoted 1 times

😑 🏝 Anmol_1010 1 year ago

Did anyome took tge exam recently, How many questiona were there upvoted 2 times

😑 💄 omoakin 1 year ago

Can we understand why admin's answers are mostly wrong? Or is this done on purpose? upvoted 2 times

😑 🌲 nosense 1 year ago

Selected Answer: C

Amazon Kinesis Data Firehose the most optimal variant upvoted 3 times

😑 💄 kailu 1 year ago

Shouldn't C be more appropriate? upvoted 4 times

😑 🌲 MostofMichelle 1 year ago

You're right. I believe the answers are wrong on purpose, so good thing votes can be made on answers and discussions are allowed.

upvoted 1 times

A company runs a website that uses a content management system (CMS) on Amazon EC2. The CMS runs on a single EC2 instance and uses an Amazon Aurora MySQL Multi-AZ DB instance for the data tier. Website images are stored on an Amazon Elastic Block Store (Amazon EBS) volume that is mounted inside the EC2 instance.

Which combination of actions should a solutions architect take to improve the performance and resilience of the website? (Choose two.)

A. Move the website images into an Amazon S3 bucket that is mounted on every EC2 instance

B. Share the website images by using an NFS share from the primary EC2 instance. Mount this share on the other EC2 instances.

C. Move the website images onto an Amazon Elastic File System (Amazon EFS) file system that is mounted on every EC2 instance.

D. Create an Amazon Machine Image (AMI) from the existing EC2 instance. Use the AMI to provision new instances behind an Application Load Balancer as part of an Auto Scaling group. Configure the Auto Scaling group to maintain a minimum of two instances. Configure an accelerator in AWS Global Accelerator for the website

E. Create an Amazon Machine Image (AMI) from the existing EC2 instance. Use the AMI to provision new instances behind an Application Load Balancer as part of an Auto Scaling group. Configure the Auto Scaling group to maintain a minimum of two instances. Configure an Amazon CloudFront distribution for the website.

Correct Answer: *DE*

Community vote distribution CE (70%)

AE (30%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: CE

By combining the use of Amazon EFS for shared file storage and Amazon CloudFront for content delivery, you can achieve improved performance and resilience for the website.

upvoted 13 times

😑 👗 wizcloudifa (Most Recent 🕐) 1 month, 2 weeks ago

Selected Answer: CE

First of all you should understand, a website using CMS is a dynamic one not static, so A is out, B is more complicated than C, so C, and between global accelerator and cloudfront, Cloudfront suits better as there is no legacy protocols data(UDP, etc) that needs to be accessed, hence E upvoted 2 times

😑 💄 foha2012 5 months, 1 week ago

I choose AE. Although I don't know if s3 can be mounted on ec2 ?? Maybe wrong wording. Efs is a better choice but its not a natural selection for strong images.

upvoted 2 times

😑 🌲 awsgeek75 5 months ago

I made the same mistake but mounting S3 on EC2 is a painful operation so EFS makes more sense (C). Option E takes care of caching static images on CDN so that problem is solved along with resilience etc. upvoted 3 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: CE

Not A because you can't mount an S3 bucket on an EC2 instance. You could use a file gateway and share an S3 bucket via NFS and mount that on EC2, but that is not mentioned here and would also not make sense.

upvoted 3 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: CE

You can mount EFS file systems to multiple Amazon EC2 instances remotely and securely without having to log in to the instances by using the AWS Systems Manager Run Command.

upvoted 2 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

A is out of the game for sure. Mount S3 to EC2 ... madness. The question is CE or DE, but it is CE because of AWS Global Accelerator is match with NLB, not ALB as it is staded in option D, thus CE as many of all here noted.

upvoted 4 times

😑 🌲 thanhnv142 7 months, 3 weeks ago

A and E is correct. We have a cloud fromt + S3 combo

upvoted 1 times

😑 🆀 wsdasdasdqwdaw 7 months, 2 weeks ago

S3 can't be mounted on EC2 it is not A for sure! upvoted 3 times

😑 🌲 NickGordon 7 months ago

https://aws.amazon.com/blogs/storage/mounting-amazon-s3-to-an-amazon-ec2-instance-using-a-private-connection-to-s3-file-gateway/ upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

"Using a ... S3 file gateway" upvoted 1 times

😑 💄 thanhnv142 7 months, 3 weeks ago

A and E.

C is not correct because You dont mount a new EFS onto existing EC2. If you do that, you have to migrate all exising data in EBS into EFS. Then remove all the EBS. Should never do this.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

I can't follow. EFS provides NFS mount points, how can you not mount those onto existing EC2? upvoted 1 times

😑 🌲 franbarberan 8 months, 2 weeks ago

Selected Answer: CE

https://bluexp.netapp.com/blog/ebs-efs-amazons3-best-cloud-storage-system upvoted 2 times

😑 👗 Smart 9 months, 3 weeks ago

Selected Answer: CE

Not A - S3 cannot be mounted (up until few months ago). Exam does not test for the updates in last 6 months. upvoted 3 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: AE

You have summarized the reasons why options A and E are the best choices very well.

Migrating static website assets like images to Amazon S3 enables high scalability, durability and shared access across instances. This improves performance.

Using Auto Scaling with load balancing provides elasticity and resilience. Adding a CloudFront distribution further boosts performance through caching and content delivery.

upvoted 2 times

😑 🏝 pentium75 5 months, 1 week ago

You can't directly mount an S3 bucket on EC2. upvoted 2 times

😑 💄 Ale1973 10 months, 1 week ago

Selected Answer: AE

Both options AE and CE would work, but I choose AE, because, on my opinion, S3 is best suited for performance and resilience. upvoted 3 times

😑 🌲 pentium75 5 months, 1 week ago

You can't directly mount an S3 bucket on EC2 upvoted 2 times

E 🌢 MicketyMouse 10 months, 1 week ago

Selected Answer: CE

EFS, unlike EBS, can be mounted across multiple EC2 instances and hence C over A. upvoted 1 times

😑 🌲 TariqKipkemei 11 months ago

Selected Answer: AE

Technically both options AE and CE would work. But S3 is best suited for unstructured data, and the key benefit of mounting S3 on EC2 is that it provides a cost-effective alternative of using object storage for applications dealing with large files, as compared to expensive file or block storage At the same time it provides more performant, scalable and highly available storage for these applications.

Even though there is no mention of 'cost efficient' in this question, in the real world cost is the no.1 factor. In the exam I believe both options would be a pass.

https://aws.amazon.com/blogs/storage/mounting-amazon-s3-to-an-amazon-ec2-instance-using-a-private-connection-to-s3-file-gateway/ upvoted 4 times

😑 💄 pentium75 5 months, 1 week ago

You can't directly mount an S3 bucket on EC2, only through file gateway upvoted 1 times

😑 🌲 AshutoshSingh1923 11 months, 2 weeks ago

Selected Answer: CE

Option C provides moving the website images onto an Amazon EFS file system that is mounted on every EC2 instance. Amazon EFS provides a scalable and fully managed file storage solution that can be accessed concurrently from multiple EC2 instances. This ensures that the website images can be accessed efficiently and consistently by all instances, improving performance

In Option E The Auto Scaling group maintains a minimum of two instances, ensuring resilience by automatically replacing any unhealthy instances. Additionally, configuring an Amazon CloudFront distribution for the website further improves performance by caching content at edge locations closer to the end-users, reducing latency and improving content delivery.

Hence combining these actions, the website's performance is improved through efficient image storage and content delivery upvoted 2 times

😑 👗 Vadbro7 11 months, 2 weeks ago

Which answe is correct?the most voted ones or the Suggested answers? upvoted 1 times

😑 🌲 mattel 11 months, 3 weeks ago

A and E: S3 is perfect for images. Besides is the perfect partner of cloudfront upvoted 2 times

A company runs an infrastructure monitoring service. The company is building a new feature that will enable the service to monitor data in customer AWS accounts. The new feature will call AWS APIs in customer accounts to describe Amazon EC2 instances and read Amazon CloudWatch metrics.

What should the company do to obtain access to customer accounts in the MOST secure way?

A. Ensure that the customers create an IAM role in their account with read-only EC2 and CloudWatch permissions and a trust policy to the company's account.

B. Create a serverless API that implements a token vending machine to provide temporary AWS credentials for a role with read-only EC2 and CloudWatch permissions.

C. Ensure that the customers create an IAM user in their account with read-only EC2 and CloudWatch permissions. Encrypt and store customer access and secret keys in a secrets management system.

D. Ensure that the customers create an Amazon Cognito user in their account to use an IAM role with read-only EC2 and CloudWatch permissions. Encrypt and store the Amazon Cognito user and password in a secrets management system.

Correct Answer: A

Community vote distribution

A (93%)

7%

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: A

By having customers create an IAM role with the necessary permissions in their own accounts, the company can use AWS Identity and Access Management (IAM) to establish cross-account access. The trust policy allows the company's AWS account to assume the customer's IAM role temporarily, granting access to the specified resources (EC2 instances and CloudWatch metrics) within the customer's account. This approach follows the principle of least privilege, as the company only requests the necessary permissions and does not require long-term access keys or use credentials from the customers.

upvoted 14 times

😑 🌲 Piccalo (Highly Voted 🖬) 1 year ago

Selected Answer: A

A. Roles give temporary credentials upvoted 8 times

😑 🌡 Efren 1 year ago

Agreed . Role is the keyword upvoted 2 times

😑 👗 awsgeek75 (Most Recent 🕗) 4 months, 3 weeks ago

Selected Answer: A

B: Sharing credentials, even temporary, is insecure

C: Access and secret keys. That won't work and sharing secrets outside of account is not secure for this use case

A: Keyword "trust policy"

D: Again, sharing username and pwd and sharing in any way is not secure

upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: A

Not B (would be about access to the company's account, not the customers' accounts) Not C (storing credentials in a custom system is a big nono) Not D (Cognito has nothing to do here and "user and password" is terrible) upvoted 2 times

😑 💄 1rob 6 months, 2 weeks ago

Selected Answer: D

The company's infrastructure monitoring service needs to call aws API's in the MOST secure way. So you have to focus on restricting access to the APIs and there is where cognito comes in to play.

upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

What is unsecure with A?

upvoted 2 times

😑 💄 1rob 5 months ago

The company runs an infrastructure monitoring service. Nowhere is stated that this service lives in an aws account. So A and C I wouldn't choose.

B is a bit too vague. So I end up with D. upvoted 1 times

□ **awsgeek75** 5 months ago

Are you suggesting to restrict CloudWatch API with Cognito roles? upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

A is the most secure approach for accessing customer accounts.

Having customers create a cross-account IAM role with the appropriate permissions, and configuring the trust policy to allow the monitoring service principal account access, implements secure delegation and least privilege access. upvoted 1 times

What is the MOST operationally efficient solution to connect the VPCs?

- A. Set up VPC peering connections between each VPC. Update each associated subnet's route table
- B. Configure a NAT gateway and an internet gateway in each VPC to connect each VPC through the internet
- C. Create an AWS Transit Gateway in the networking team's AWS account. Configure static routes from each VPC.
- D. Deploy VPN gateways in each VPC. Create a transit VPC in the networking team's AWS account to connect to each VPC.

Correct Answer: C

Community vote distribution

C (100%)

😑 💄 hsinchang (Highly Voted 🖬) 10 months, 3 weeks ago

Selected Answer: C

The main difference between AWS Transit Gateway and VPC peering is that AWS Transit Gateway is designed to connect multiple VPCs together in a hub-and-spoke model, while VPC peering is designed to connect two VPCs together in a peer-to-peer model. As we have several VPCs here, the answer should be C.

upvoted 15 times

😑 📥 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

AWS Transit Gateway is a highly scalable and centralized hub for connecting multiple VPCs, on-premises networks, and remote networks. It simplifies network connectivity by providing a single entry point and reducing the number of connections required. In this scenario, deploying an AWS Transit Gateway in the networking team's AWS account allows for efficient management and control over the network connectivity across multiple VPCs.

upvoted 6 times

😑 🆀 awsgeek75 🛛 Most Recent 🕗 🕽 4 months, 3 weeks ago

Selected Answer: C

A: This option is suggesting hundreds of peering connection for EACH VPC. Nope!

- B: NAT gateway is for network translation not VPC interconnectivity so this is wrong
- C: Transit GW + static routes will connect all VPCs https://aws.amazon.com/transit-gateway/

D: VPN gateway is for on-prem to VPN for a VPC. There is no on-prem here so this is wrong upvoted 1 times

😑 🆀 TariqKipkemei 7 months ago

Selected Answer: C

Connect, Monitor and Manage Multiple VPCs in one place = AWS Transit Gateway upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C is the most operationally efficient solution for connecting a large number of VPCs across accounts.

Using AWS Transit Gateway allows all the VPCs to connect to a central hub without needing to create a mesh of VPC peering connections between each VPC pair.

This significantly reduces the operational overhead of managing the network topology as new VPCs are added or changed.

The networking team can centrally manage the Transit Gateway routing and share it across accounts using Resource Access Manager. upvoted 2 times

😑 🆀 MirKhobaeb 1 year ago

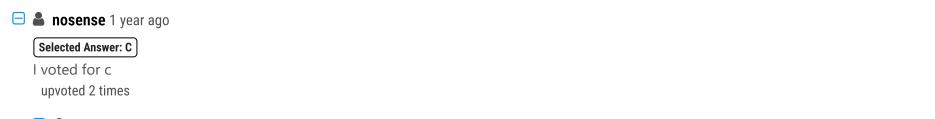
Answer is C

upvoted 1 times

😑 🆀 MirKhobaeb 1 year ago

A transit gateway is a network transit hub that you can use to interconnect your virtual private clouds (VPCs) and on-premises networks. As your cloud infrastructure expands globally, inter-Region peering connects transit gateways together using the AWS Global Infrastructure. Your data is automatically encrypted and never travels over the public internet.

upvoted 2 times



😑 🌡 nosense 1 year ago

An AWS Transit Gateway is a highly scalable and secure way to connect VPCs in multiple AWS accounts. It is a central hub that routes traffic between VPCs, on-premises networks, and AWS services. upvoted 3 times

A company has Amazon EC2 instances that run nightly batch jobs to process data. The EC2 instances run in an Auto Scaling group that uses On-Demand billing. If a job fails on one instance, another instance will reprocess the job. The batch jobs run between 12:00 AM and 06:00 AM local time every day.

Which solution will provide EC2 instances to meet these requirements MOST cost-effectively?

A. Purchase a 1-year Savings Plan for Amazon EC2 that covers the instance family of the Auto Scaling group that the batch job uses.

B. Purchase a 1-year Reserved Instance for the specific instance type and operating system of the instances in the Auto Scaling group that the batch job uses.

C. Create a new launch template for the Auto Scaling group. Set the instances to Spot Instances. Set a policy to scale out based on CPU usage.

D. Create a new launch template for the Auto Scaling group. Increase the instance size. Set a policy to scale out based on CPU usage.

Correct Answer: C

Community vote distribution

C (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬 1 year ago

Selected Answer: C

Purchasing a 1-year Savings Plan (option A) or a 1-year Reserved Instance (option B) may provide cost savings, but they are more suitable for long running, steady-state workloads. Since your batch jobs run for a specific period each day, using Spot Instances with the ability to scale out based on CPU usage is a more cost-effective choice.

upvoted 12 times

😑 👗 Guru4Cloud (Highly Voted 🐽) 9 months, 3 weeks ago

Selected Answer: C

C is the most cost-effective solution in this scenario.

Using Spot Instances allows EC2 capacity to be purchased at significant discounts compared to On-Demand prices. The auto scaling group can scale out to add Spot Instances when needed for the batch jobs.

If Spot Instances become unavailable, regular On-Demand Instances will be launched instead to maintain capacity. The potential for interruptions i acceptable since failed jobs can be re-run.

upvoted 6 times

😑 🛔 sandordini (Most Recent 🕗) 1 month, 3 weeks ago

Selected Answer: C

Stateless, most cost-effective >> Spot upvoted 2 times

😑 📥 awsgeek75 5 months ago

Selected Answer: C

You don't need any scaling really as the job runs on another EC2 instance if it fails on first one. A. B. D are all more expensive than C due to spot instance being cheaper than reserved instances.

upvoted 2 times

E **LariqKipkemei** 11 months ago

Selected Answer: C

Spot Instances to the rescue....whooosh upvoted 1 times

😑 💄 wRhIH 11 months, 3 weeks ago

" If a job fails on one instance, another instance will reprocess the job". This ensures Spot Instances are enough for this case upvoted 3 times

😑 🌲 Abrar2022 1 year ago

Selected Answer: C

Since your batch jobs run for a specific period each day, using Spot Instances with the ability to scale out based on CPU usage is a more costeffective choice.

upvoted 1 times

😑 🌡 Blingy 1 year ago

C FOR ME COS OF SPOT INSTACES upvoted 2 times	
udo2020 1 year ago First I think it is B but because of cost saving I think it should be C spot instances. upvoted 1 times	
 nosense 1 year ago Selected Answer: C c for me upvoted 1 times 	

A social media company is building a feature for its website. The feature will give users the ability to upload photos. The company expects significant increases in demand during large events and must ensure that the website can handle the upload traffic from users.

Which solution meets these requirements with the MOST scalability?

- A. Upload files from the user's browser to the application servers. Transfer the files to an Amazon S3 bucket.
- B. Provision an AWS Storage Gateway file gateway. Upload files directly from the user's browser to the file gateway.
- C. Generate Amazon S3 presigned URLs in the application. Upload files directly from the user's browser into an S3 bucket.
- D. Provision an Amazon Elastic File System (Amazon EFS) file system. Upload files directly from the user's browser to the file system.

Correct Answer: *C*

Community vote distribution

C (92%)

8%

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

This approach allows users to upload files directly to S3 without passing through the application servers, reducing the load on the application and improving scalability. It leverages the client-side capabilities to handle the file uploads and offloads the processing to S3. upvoted 15 times

😑 💄 hro (Most Recent 🕗) 2 months, 2 weeks ago

C - You may use presigned URLs to allow someone to upload an object to your Amazon S3 bucket. Using a presigned URL will allow an upload without requiring another party to have AWS security credentials or permissions. upvoted 2 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: C

https://docs.aws.amazon.com/AmazonS3/latest/userguide/using-presigned-url.html

"You can also use presigned URLs to allow someone to upload a specific object to your Amazon S3 bucket. This allows an upload without requiring another party to have AWS security credentials or permissions. "

upvoted 1 times

😑 🌲 Goutham4981 6 months, 3 weeks ago

Selected Answer: A

S3 presigned url is used for sharing objects from an s3 bucket and not for uploading to an s3 bucket upvoted 2 times

😑 🌲 Murtadhaceit 6 months ago

No. It allows to download and upload.

https://docs.aws.amazon.com/AmazonS3/latest/userguide/using-presigned-url.html upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C is the best solution to meet the scalability requirements.

Generating S3 presigned URLs allows users to upload directly to S3 instead of application servers. This removes the application servers as a bottleneck for upload traffic.

S3 can scale to handle very high volumes of uploads with no limits on storage or throughput. Using presigned URLs leverages this scalability. upvoted 4 times

😑 🌲 TariqKipkemei 11 months ago

Selected Answer: C

You may use presigned URLs to allow someone to upload an object to your Amazon S3 bucket. Using a presigned URL will allow an upload withou requiring another party to have AWS security credentials or permissions. https://docs.aws.amazon.com/AmazonS3/latest/userguide/PresignedUrlUploadObject.html upvoted 1 times

😑 💄 baba365 11 months, 1 week ago

Hello Moderator. This question and answer should be rephrased because:

1. S3 pre-signed URLs are used to share objects FROM S3 buckets

2. How scalable are pre-signed URLs when they are time constrained?

https://docs.aws.amazon.com/AmazonS3/latest/userguide/ShareObjectPreSignedURL.html upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Both is wrong Presigned URLs can be used for upload The solution is scalable because you can issue thousands of pre-signed URLs, and thousands of users can upload images at the same time.

User wants to upload picture -> server generates presigned URL and sends it to the app -> app uploads file upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: C

the most scalable because it allows users to upload files directly to Amazon S3, upvoted 3 times

Question #507

A company has a web application for travel ticketing. The application is based on a database that runs in a single data center in North America. The company wants to expand the application to serve a global user base. The company needs to deploy the application to multiple AWS Regions. Average latency must be less than 1 second on updates to the reservation database.

The company wants to have separate deployments of its web platform across multiple Regions. However, the company must maintain a single primary reservation database that is globally consistent.

Which solution should a solutions architect recommend to meet these requirements?

A. Convert the application to use Amazon DynamoDB. Use a global table for the center reservation table. Use the correct Regional endpoint in each Regional deployment.

B. Migrate the database to an Amazon Aurora MySQL database. Deploy Aurora Read Replicas in each Region. Use the correct Regional endpoint in each Regional deployment for access to the database.

C. Migrate the database to an Amazon RDS for MySQL database. Deploy MySQL read replicas in each Region. Use the correct Regional endpoint in each Regional deployment for access to the database.

D. Migrate the application to an Amazon Aurora Serverless database. Deploy instances of the database to each Region. Use the correct Regional endpoint in each Regional deployment to access the database. Use AWS Lambda functions to process event streams in each Region to synchronize the databases.

Correct Answer: *B*

Community vote distribution A (58%)

B (42%)

😑 🛔 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: A

Using DynamoDB's global tables feature, you can achieve a globally consistent reservation database with low latency on updates, making it suitabl for serving a global user base. The automatic replication provided by DynamoDB eliminates the need for manual synchronization between Regions upvoted 15 times

😑 🖀 SVDK (Most Recent 🕗) 4 months ago

Selected Answer: A

How can you update your database in the different regions with read replicas? You need to be able to read and write to the database from the different regions.

upvoted 1 times

😑 🌲 upliftinghut 4 months, 3 weeks ago

Selected Answer: B

Aurora: less than 1 second: https://aws.amazon.com/rds/aurora/global-database/ DynamoDB: from 0.5 to 2.5 second: https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/V2globaltables_HowItWorks.html upvoted 3 times

😑 🌲 TheLaPlanta 2 months, 3 weeks ago

B doesn't say Aurora Global

upvoted 7 times

😑 🌡 Milivoje 5 months ago

Selected Answer: A

In my Opinion it is A. The reason is that Aurora Read Replicas support up to 5 Read replicas in different regions . We don't have that limitation with Dynamo DB Global tables, hence I vote for A.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: B

Purely from the wording, seems B. DynamoDB "usually within one second" Aurora "usually less than one second" Question asks for "less than one second" thus Aurora upvoted 1 times

😑 💄 pentium75 5 months ago

We need "a single primary reservation database that is globally consistent" -> A is out (DynamoDB is eventually consistent with "last writer wins" and "usually" updates "within [not: less than] one second"). D is out because it mentions multiple databases (and RDS Event Streams to not guarantee the order of events).

C is out because RDS has higher replication delay, only Aurora can guarantee "less than one second". So we'd have "a single primary reservation database that is globally consistent" in one region, and we'd have read replicas with "less than 1 second on updates" latency in other regions. upvoted 4 times

😑 👗 numark 6 months, 2 weeks ago

"a web application for travel ticketing". This would be a transaction, so DynamoDB is not the answer. upvoted 1 times

😑 🏝 pentium75 5 months, 1 week ago

So you can't write to DynamoDB tables at all because tables writes are transactions? upvoted 2 times

😑 🌲 awsgeek75 5 months ago

There are no assumptions about the application here. The choices are related to the database that has one primary source of truth but multiregion presence. No requirement for transaction is given or implied. upvoted 1 times

😑 🌲 Goutham4981 6 months, 3 weeks ago

Selected Answer: A

Dynamo DB global table acts as a single table. It does not consist of primary and standby databases. It is one single global table which is synchronously updated. Users can write to any of the regional endpoints and the write will be automatically updated across regions. To have a single primary database that is consistent does not align with dynamo db global tables.

Option B is even more dumb compared to A since read replicas does not provide failover capability or fast updates from the primary database. The answer almost close to the requirement is Option A even though it is a misfit

upvoted 1 times

😑 🌲 Goutham4981 6 months, 3 weeks ago

Selected Answer: A

The question mentions that the average latency on updates to the regional reservation databases should be less than 1sec. Read replicas provide asynchronous replication and hence the update times will be higher. Hence we can easily scrap all the options containing read replicas from the options. Moreover, a globally consistent database with millisecond latencies screams dynamo db global upvoted 2 times

😑 💄 DDongi 7 months, 3 weeks ago

Selected Answer: B

I think the real difference is that DynamoDB is by default only eventually consistent however it has to be consistent. So it's B. https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/HowItWorks.ReadConsistency.html upvoted 4 times

😑 💄 jrestrepob 9 months, 1 week ago

Selected Answer: B

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Replication.CrossRegion.html " average latency less than 1 second."

upvoted 2 times

😑 👗 kwang312 8 months, 2 weeks ago

This is for Cluster upvoted 1 times

😑 🌲 ibu007 9 months, 1 week ago

Selected Answer: A

Amazon DynamoDB global tables is a fully managed, serverless, multi-Region, and multi-active database. Global tables provide you 99.999% availability, increased application resiliency, and improved business continuity. As global tables replicate your Amazon DynamoDB tables automatically across your choice of AWS Regions, you can achieve fast, local read and write performance.

upvoted 1 times

😑 🆀 Bennyboy789 9 months, 2 weeks ago

Selected Answer: B

Amazon Aurora provides global databases that replicate your data with low latency to multiple regions. By using Aurora Read Replicas in each Region, the company can achieve low-latency access to the data while maintaining global consistency. The use of regional endpoints ensures that each deployment accesses the appropriate local replica, reducing latency. This solution allows the company to meet the requirement of serving a global user base while keeping average latency less than 1 second.

upvoted 1 times

E & Bennyboy789 9 months, 2 weeks ago

While Amazon DynamoDB is a highly scalable NoSQL database, using a global table might introduce latency and might not be suitable for maintaining a single primary reservation database with globally consistent data. upvoted 1 times

😑 🆀 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Aurora Global DB provides native multi-master replication and automatic failover for high availability across regions. Read replicas in each region ensure low read latency by promoting a local replica to handle reads. A single Aurora primary region handles all writes to maintain data consistency. Data replication and sync is managed automatically by Aurora Global DB. Regional endpoints minimize cross-region latency.

Automatic failover promotes a replica to be the new primary if the current primary region goes down.

upvoted 1 times

😑 💄 cd93 9 months, 3 weeks ago

Selected Answer: B

"the company must maintain a single primary reservation database that is globally consistent." --> Relational database, because it only allow write from one regional endpoint

DynamoDB global table allow BOTH reads and writes on all regions ("last writer wins"), so it is not single point of entry. You can set up IAM identity based policy to restrict write access for global tables that are not in NA but it is not mentioned. upvoted 1 times

😑 🌲 ralfj 10 months, 1 week ago

Selected Answer: B

Advantages of Amazon Aurora global databases By using Aurora global databases, you can get the following advantages:

Global reads with local latency – If you have offices around the world, you can use an Aurora global database to keep your main sources of information updated in the primary AWS Region. Offices in your other Regions can access the information in their own Region, with local latency.

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-global-database.html

D. although D is also using Aurora Global Database, there is no need for Lambda function to sync data. upvoted 1 times

😑 🌲 bjexamprep 10 months, 2 weeks ago

Selected Answer: A

In real life, I would use Aurora Global Database. Because 1. it achieve less than 1 sec latency, 2. And ticketing system is a very typical traditional relational system.

While, in the exam I would vote for A. Because Option B isn't using global database which means you have to provide the endpoint of primary region to a remote region for update and even the typical back and forth latency is 400ms but you have to have a lot of professional network setu to guarantee it, which option B doesn't mention.

upvoted 3 times

😑 🌲 BlueAlBird 10 months, 2 weeks ago

ANs; B

Amazon Aurora Global Database is designed for globally distributed applications, allowing a single Amazon Aurora database to span multiple AWS Regions. It replicates your data with no impact on database performance, enables fast local reads with low latency in each Region, and provides disaster recovery from Region-wide outages.

Ref: https://aws.amazon.com/rds/aurora/global-database/ upvoted 1 times

A company has migrated multiple Microsoft Windows Server workloads to Amazon EC2 instances that run in the us-west-1 Region. The company manually backs up the workloads to create an image as needed.

In the event of a natural disaster in the us-west-1 Region, the company wants to recover workloads quickly in the us-west-2 Region. The company wants no more than 24 hours of data loss on the EC2 instances. The company also wants to automate any backups of the EC2 instances.

Which solutions will meet these requirements with the LEAST administrative effort? (Choose two.)

A. Create an Amazon EC2-backed Amazon Machine Image (AMI) lifecycle policy to create a backup based on tags. Schedule the backup to run twice daily. Copy the image on demand.

B. Create an Amazon EC2-backed Amazon Machine Image (AMI) lifecycle policy to create a backup based on tags. Schedule the backup to run twice daily. Configure the copy to the us-west-2 Region.

C. Create backup vaults in us-west-1 and in us-west-2 by using AWS Backup. Create a backup plan for the EC2 instances based on tag values. Create an AWS Lambda function to run as a scheduled job to copy the backup data to us-west-2.

D. Create a backup vault by using AWS Backup. Use AWS Backup to create a backup plan for the EC2 instances based on tag values. Define the destination for the copy as us-west-2. Specify the backup schedule to run twice daily.

E. Create a backup vault by using AWS Backup. Use AWS Backup to create a backup plan for the EC2 instances based on tag values. Specify the backup schedule to run twice daily. Copy on demand to us-west-2.

Correct Answer: BC

Community vote distribution

BD (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: BD

Option B suggests using an EC2-backed Amazon Machine Image (AMI) lifecycle policy to automate the backup process. By configuring the policy to run twice daily and specifying the copy to the us-west-2 Region, the company can ensure regular backups are created and copied to the alternate region.

Option D proposes using AWS Backup, which provides a centralized backup management solution. By creating a backup vault and backup plan based on tag values, the company can automate the backup process for the EC2 instances. The backup schedule can be set to run twice daily, and the destination for the copy can be defined as the us-west-2 Region.

upvoted 9 times

😑 💄 cloudenthusiast 1 year ago

Both options automate the backup process and include copying the backups to the us-west-2 Region, ensuring data resilience in the event of a disaster. These solutions minimize administrative effort by leveraging automated backup and copy mechanisms provided by AWS services. upvoted 6 times

😑 👗 awsgeek75 (Most Recent 🕗) 4 months, 3 weeks ago

Selected Answer: BD

LEAST admin overhead: A: On demand so wrong

C: Lambda is overhead

E: On-demand is wrong

BD is the only choice. Although D seems to cover for B also, happy to be corrected. upvoted 4 times

😑 🌲 pmlabs 8 months, 1 week ago

B D seems to meet the requiremnts fully upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: BD

B and D are the options that meet the requirements with the least administrative effort.

B uses EC2 image lifecycle policies to automatically create AMIs of the instances twice daily and copy them to the us-west-2 region. This automate regional backups.

D leverages AWS Backup to define a backup plan that runs twice daily and copies backups to us-west-2. AWS Backup automates EC2 instance backups.

Together, these options provide automated, regional EC2 backup capabilities with minimal administrative overhead. upvoted 1 times

😑 🌡 TariqKipkemei 11 months ago

Selected Answer: BD

options B and D will provide least administrative effort. upvoted 1 times

😑 💄 antropaws 1 year ago

Selected Answer: BD

I also vote B and D. upvoted 1 times

😑 🛔 nosense 1 year ago

Selected Answer: BD

solutions are both automated and require no manual intervention to create or copy backups upvoted 4 times

Question #509

A company operates a two-tier application for image processing. The application uses two Availability Zones, each with one public subnet and one private subnet. An Application Load Balancer (ALB) for the web tier uses the public subnets. Amazon EC2 instances for the application tier use the private subnets.

Users report that the application is running more slowly than expected. A security audit of the web server log files shows that the application is receiving millions of illegitimate requests from a small number of IP addresses. A solutions architect needs to resolve the immediate performance problem while the company investigates a more permanent solution.

What should the solutions architect recommend to meet this requirement?

A. Modify the inbound security group for the web tier. Add a deny rule for the IP addresses that are consuming resources.

B. Modify the network ACL for the web tier subnets. Add an inbound deny rule for the IP addresses that are consuming resources.

C. Modify the inbound security group for the application tier. Add a deny rule for the IP addresses that are consuming resources.

D. Modify the network ACL for the application tier subnets. Add an inbound deny rule for the IP addresses that are consuming resources.

Correct Answer: B

Community vote distribution

B (89%)

11%

😑 💄 lucdt4 (Highly Voted 🖬 1 year ago

Selected Answer: B

A wrong because security group can't deny (only allow) upvoted 20 times

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: B

In this scenario, the security audit reveals that the application is receiving millions of illegitimate requests from a small number of IP addresses. To address this issue, it is recommended to modify the network ACL (Access Control List) for the web tier subnets.

By adding an inbound deny rule specifically targeting the IP addresses that are consuming resources, the network ACL can block the illegitimate traffic at the subnet level before it reaches the web servers. This will help alleviate the excessive load on the web tier and improve the application's performance.

upvoted 7 times

😑 👗 awsgeek75 (Most Recent 🕐) 4 months, 3 weeks ago

Selected Answer: B

A: Wrong as SG cannot deny. By default everything is deny in SG and you allow stuff CD: App tier is not under attack so these are irrelevant options B: Correct as NACL is exactly for this access control list to define rules for CIDR or IP addresses

upvoted 2 times

😑 🌡 TariqKipkemei 7 months ago

Selected Answer: B

Modify the network ACL for the web tier subnets. Add an inbound deny rule for the IP addresses that are consuming resources. upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: B

A is wrong

Security groups act at the network interface level, not the subnet level, and they support Allow rules only. upvoted 2 times

😑 🌲 Devsin2000 8 months, 3 weeks ago

Selected Answer: A

The security Group can be applied to an ALB at web tier. upvoted 1 times

😑 🆀 Goutham4981 6 months, 3 weeks ago

Security group can't deny. upvoted 3 times

😑 👗 OSHOAIB 5 months ago

Security group rules are always permissive; you can't create rules that deny access. https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/security-group-rules.html upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Since the bad requests are targeting the web tier, adding ACL deny rules for those IP addresses on the web subnets will block the traffic before it reaches the instances.

Security group changes (Options A and C) would not be effective since the requests are not even reaching those resources.

Modifying the application tier ACL (Option D) would not stop the bad traffic from hitting the web tier. upvoted 2 times

😑 💄 fakrap 1 year ago

Selected Answer: B

A is wrong because you cannot put any deny in security group upvoted 2 times

😑 🌡 Rob1L 1 year ago

Selected Answer: B

You cannot Deny on SG, so it's B upvoted 5 times

😑 🌲 nosense 1 year ago

Selected Answer: A

Option B is not as effective as option A upvoted 4 times

😑 🌲 cloudenthusiast 1 year ago

A and C out due to the fact that SG does not have deny on allow rules. upvoted 3 times

😑 💄 y0 1 year ago

Security group only have allow rules upvoted 2 times

😑 💄 nosense 1 year ago

yeah, my mistake. B should be upvoted 1 times

Which network design will meet these requirements?

A. Create a VPC peering connection between the eu-west-1 VPC and the ap-southeast-2 VPC. Create an inbound rule in the eu-west-1 application security group that allows traffic from the database server IP addresses in the ap-southeast-2 security group.

B. Configure a VPC peering connection between the ap-southeast-2 VPC and the eu-west-1 VPC. Update the subnet route tables. Create an inbound rule in the ap-southeast-2 database security group that references the security group ID of the application servers in eu-west-1.

C. Configure a VPC peering connection between the ap-southeast-2 VPC and the eu-west-1 VPUpdate the subnet route tables. Create an inbound rule in the ap-southeast-2 database security group that allows traffic from the eu-west-1 application server IP addresses.

14%

D. Create a transit gateway with a peering attachment between the eu-west-1 VPC and the ap-southeast-2 VPC. After the transit gateways are properly peered and routing is configured, create an inbound rule in the database security group that references the security group ID of the application servers in eu-west-1.

Correct Answer: *B*

Community vote distribution

C (86%)

😑 👗 VellaDevil (Highly Voted 🐽) 11 months, 1 week ago

Selected Answer: C

Answer: C -->"You cannot reference the security group of a peer VPC that's in a different Region. Instead, use the CIDR block of the peer VPC." https://docs.aws.amazon.com/vpc/latest/peering/vpc-peering-security-groups.html upvoted 31 times

😑 🌲 hsinchang 10 months, 3 weeks ago

Thanks for this clarification! upvoted 3 times

E & Axeashes (Highly Voted) 12 months ago

Selected Answer: C

"You cannot reference the security group of a peer VPC that's in a different Region. Instead, use the CIDR block of the peer VPC." https://docs.aws.amazon.com/vpc/latest/peering/vpc-peering-security-groups.html upvoted 9 times

😑 🛔 potomac (Most Recent 🕐) 7 months, 1 week ago

Selected Answer: C

After establishing the VPC peering connection, the subnet route tables need to be updated in both VPCs to route traffic to the other VPC's CIDR blocks through the peering connection.

upvoted 2 times

😑 🆀 Bennyboy789 9 months, 2 weeks ago

Selected Answer: C

VPC Peering Connection: This allows communication between instances in different VPCs as if they are on the same network. It's a straightforward approach to connect the two VPCs.

Subnet Route Tables: After establishing the VPC peering connection, the subnet route tables need to be updated in both VPCs to route traffic to the other VPC's CIDR blocks through the peering connection.

Inbound Rule in Database Security Group: By creating an inbound rule in the ap-southeast-2 database security group that allows traffic from the eu-west-1 application server IP addresses, you ensure that only the specified application servers from the eu-west-1 VPC can access the database servers in the ap-southeast-2 VPC.

upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

B) Configure VPC peering between ap-southeast-2 and eu-west-1 VPCs. Update routes. Allow traffic in ap-southeast-2 database SG from eu-westapplication server SG.

This option establishes the correct network connectivity for the applications in eu-west-1 to reach the databases in ap-southeast-2:

VPC peering connects the two VPCs across regions - https://docs.aws.amazon.com/vpc/latest/peering/what-is-vpc-peering.html#:~:text=You%20can%20create%20a%20VPC,%2DRegion%20VPC%20peering%20connection).

Updating route tables enables routing between the VPCs

Security group rule allowing traffic from eu-west-1 application server SG to ap-southeast-2 database SG secures connectivity upvoted 2 times

😑 💄 awsgeek75 4 months, 3 weeks ago

No, you cannot use a SG reference from another region so last part "Create an inbound rule in the ap-southeast-2 database security group that references the security group ID of the application servers in eu-west-1" cannot be setup. This is why B is wrong. upvoted 1 times

🖃 👗 Guru4Cloud 9 months, 3 weeks ago

Options A, C, D have flaws: Option A peer direction is wrong Option C opens databases to application server IP addresses rather than SG Option D uses transit gateway which is unnecessary for just two VPCs upvoted 1 times

😑 🆀 TariqKipkemei 11 months ago

Selected Answer: C

Selected C but B can also work upvoted 1 times

😑 🆀 TariqKipkemei 11 months ago

I just tried from the the console, You can specify the name or ID of another security group in the same region. To specify a security group in another AWS account (EC2-Classic only), prefix it with the account ID and a forward slash, for example: 111122223333/OtherSecurityGroup. You can Specify a single IP address, or an IP address range in CIDR notation in the same/other region.

In the exam both option B and C would be a pass. In the real world both option will work. upvoted 3 times

😑 🎩 TariqKipkemei 7 months ago

Correction, You cannot reference the security group of a peer VPC that's in a different Region. Instead, use the CIDR block of the peer VPC. The C is the only option here.

https://docs.aws.amazon.com/vpc/latest/peering/vpc-peering-security-groups.html#:~:text=You%20cannot-,reference,the%20security%20group

upvoted 3 times

🖃 🌡 awsgeek75 4 months, 3 weeks ago

This is why B is wrong. You can never access cross region security group id upvoted 1 times

😑 💄 Chris22usa 11 months, 2 weeks ago

I realize D is right as ChatGpt indicates. Because here is not a problem just one application in a VPC connection to another in different region. Actually there many applications in different VPCs in a region which need to connect any other application crossingly in other region. So two trans gateway need to installed in two regions for multiple to multiple VPCs connections.

upvoted 1 times

😑 💄 Iragmt 11 months, 1 week ago

However, there was also a part of "create an inbound rule in the database security group that references the security group ID of the applicatio servers in eu-west-1"

therefore, still C because we cannot reference SG ID of diff VPC, we should use the CIDR block upvoted 1 times

😑 💄 Chris22usa 11 months, 2 weeks ago

post it on ChaptGpt and it give me answer D. what heck with this? upvoted 1 times

😑 💄 haoAWS 11 months, 3 weeks ago

Selected Answer: C

B is wrong because It is in a different region, so reference to the security group ID will not work. A is wrong because you need to update the route table. The answer should be C.

upvoted 1 times

😑 🏝 mattel 11 months, 3 weeks ago

is B. what happens if application server IP addresses changes (Option C). You must change manually the IP in the security group again. upvoted 1 times

😑 💄 antropaws 11 months, 3 weeks ago

Selected Answer: C

I thought B, but I vote C after checking Axeashes response. upvoted 1 times

😑 🛔 HelioNeto 1 year ago

Selected Answer: C

I think the answer is C because the security groups are in different VPCs. When the question wants to allow traffic from app vpc to database vpc i think using peering connection you will be able to add the security groups rules using private ip addresses of app servers. I don't think the database VPC will identify the security group id of another VPC.

upvoted 1 times

😑 💄 REzirezi 1 year ago

D You cannot create a VPC peering connection between VPCs in different regions. upvoted 3 times

😑 👗 [Removed] 1 year ago

You can peer any two VPCs in different Regions, as long as they have distinct, non-overlapping CIDR blocks https://docs.aws.amazon.com/devicefarm/latest/developerguide/amazon-vpc-cross-region.html upvoted 2 times

😑 💄 fakrap 1 year ago

You can peer any two VPCs in different Regions, as long as they have distinct, non-overlapping CIDR blocks. This ensures that all of the private IP addresses are unique, and it allows all of the resources in the VPCs to address each other without the need for any form of network address translation (NAT).

upvoted 1 times

😑 💄 nosense 1 year ago

Selected Answer: B

b for me. bcs correct inbound rule, and not overhead upvoted 2 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: B

Option B suggests configuring a VPC peering connection between the ap-southeast-2 VPC and the eu-west-1 VPC. By establishing this peering connection, the VPCs can communicate with each other over their private IP addresses.

Additionally, updating the subnet route tables is necessary to ensure that the traffic destined for the remote VPC is correctly routed through the VPC peering connection.

To secure the communication, an inbound rule is created in the ap-southeast-2 database security group. This rule references the security group ID of the application servers in the eu-west-1 VPC, allowing traffic only from those instances. This approach ensures that only the authorized application servers can access the databases in the ap-southeast-2 VPC. upvoted 4 times

A company is developing software that uses a PostgreSQL database schema. The company needs to configure multiple development environments and databases for the company's developers. On average, each development environment is used for half of the 8-hour workday.

Which solution will meet these requirements MOST cost-effectively?

A. Configure each development environment with its own Amazon Aurora PostgreSQL database

- B. Configure each development environment with its own Amazon RDS for PostgreSQL Single-AZ DB instances
- C. Configure each development environment with its own Amazon Aurora On-Demand PostgreSQL-Compatible database
- D. Configure each development environment with its own Amazon S3 bucket by using Amazon S3 Object Select

Correct Answer: B				
Community vote distribution				
C (58%)	B (42%)			

😑 🌲 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

Option C suggests using Amazon Aurora On-Demand PostgreSQL-Compatible databases for each development environment. This option provides the benefits of Amazon Aurora, which is a high-performance and scalable database engine, while allowing you to pay for usage on an on-demand basis. Amazon Aurora On-Demand instances are typically more cost-effective for individual development environments compared to the provisioned capacity options.

upvoted 10 times

😑 💄 cloudenthusiast 1 year ago

Option B suggests using Amazon RDS for PostgreSQL Single-AZ DB instances for each development environment. While Amazon RDS is a reliable and cost-effective option, it may have slightly higher costs compared to Amazon Aurora On-Demand instances. upvoted 6 times

😑 💄 Iragmt 11 months, 1 week ago

I'm thinking that it should be B, since question does not mention any requirement only cost effective and this is just an development environment I guess we can leverage the use of RDS free tier also

upvoted 1 times

😑 🌲 Murtadhaceit (Highly Voted 🖬) 6 months ago

Selected Answer: B

AWS Services Calculator is showing B cheaper by less than a dollar for the same settings for both. I used "db.r6g.large" for RDS (Single-AZ) and Aurora and put 4 hours/day.

upvoted 7 times

😑 💄 Stranko 3 months, 2 weeks ago

I used the calculator, single AZ is cheaper for the exact same usage duration, if you pick On-Demand option for it too. In Aurora case (option C) you have "On Demand" explicitly specified, so if it has to be specified then I suppose that B option is about a constantly running instance. If B had an "On Demand" added, I'd vote B too.

upvoted 1 times

😑 🌲 trinh_le [Most Recent 🕑] 1 month, 2 weeks ago

Selected Answer: B

Single AZ more cost effective

upvoted 1 times

😑 💄 Stranko 3 months, 2 weeks ago

Selected Answer: C

Guys, when you use the pricing calculator the cost between option B and C is really close. I doubt anyone wants to test on your knowledge of exac pricings in your region. I think that "On Demand" being explicitly specified in option C and not being specified in option B is the main difference here the exam wants to test. In that case I'd assume that option B means a constantly running instance and not "On Demand" which would make the choice pretty obvious. Again, I don't think AWS exam will test you on knowing that a single AZ is cheaper by 0,005 cents than Aurora :D upvoted 5 times

😑 🌲 chasingsummer 4 months, 1 week ago

Selected Answer: B

1 instance(s) x 0.245 USD hourly x (4 / 24 hours in a day) x 730 hours in a month = 29.8083 USD ---> Amazon RDS PostgreSQL instances cost (monthly)

1 instance(s) x 0.26 USD hourly x (4 / 24 hours in a day) x 730 hours in a month = 31.6333 USD ---> Amazon Aurora PostgreSQL-Compatible DB instances cost (monthly)

upvoted 2 times

😑 🌲 upliftinghut 4 months, 3 weeks ago

Selected Answer: C

C is correct because B is cheaper but they don't mention to stop the DB when not in use upvoted 2 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: C

On-Demand is cheaper that Aurora or RDS because of low weekly usage upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: C

We have environments that are used on average 4 hours per workday = 20 hours per week. So with option C (Aurora on-demand aka serverless) we pay for 20 hours per week. With option B (RDS) we pay for 168 hours per week (the answer does not mention anything about automating shutdown etc.).

So even if Aurora Serverless is slightly more expensive than RDS, C is cheaper because we pay only 20 (not 168) hours per week. upvoted 2 times

🖃 🌲 Mikado211 6 months ago

Selected Answer: B

Aurora on demand is (a little) more expensive than Aurora Aurora is more expensive than RDS single instance

So cost effectiveness == RDS.

(B)

upvoted 1 times

E **a** pentium**75** 5 months, 1 week ago

But if you use the database only 20 hours per week (5 x 4), wouldn't you pay way less with Aurora serverless than with RDS? upvoted 2 times

😑 🌲 JoseVincent68 6 months ago

Selected Answer: B

Amazon RDS Single AZ is cheaper than Aurora Multi-AZ upvoted 1 times

😑 🌲 Wayne23Fang 7 months, 3 weeks ago

Selected Answer: B

Aurora instances will cost you ~20% more than RDS MySQL Given the running hours the same. Also Aurora is HA. upvoted 1 times

😑 💄 baba365 8 months, 2 weeks ago

... just trying to trick you. Aurora on demand is Aurora Serverless. upvoted 4 times

😑 🏝 Anmol_1010 7 months, 4 weeks ago

that is good piece of infroamtion upvoted 1 times

😑 💄 deechean 9 months, 2 weeks ago

Selected Answer: C

Aurora allows you to pay for the hours used. 4 hour every day, you only need 1/6 cost of 24 hours per day. You can check the Aurora pricing

calculator.

upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

The key factors:

RDS Single-AZ instances only run the DB instance when in use, minimizing costs for dev environments not used full-time RDS charges by the hour for DB instance hours used, versus Aurora clusters that have hourly uptime charges PostgreSQL is natively supported by RDS so no compatibility issues S3 Object Select (Option D) does not provide full database functionality Aurora (Options A and C) has higher minimum costs than RDS even when not fully utilized upvoted 2 times

😑 💄 OSHOAIB 5 months ago

Aurora is FULLY compatible with PostgreSQL, allowing existing applications and tools to run without requiring modification. https://aws.amazon.com/rds/aurora/features/#:~:text=Aurora%20is%20fully%20compatible%20with,to%20run%20without%20requiring%20mc dification upvoted 1 times

😑 🌡 TariqKipkemei 11 months ago

Selected Answer: C

Putting into consideration that the environments will only run 4 hours everyday and the need to save on costs, then Amazon Aurora would be suitable because it supports auto-scaling configuration where the database automatically starts up, shuts down, and scales capacity up or down based on your application's needs. So for the rest of the 4 hours everyday when not in use the database shuts down automatically when there is no activity.

Option C would be best, as this is the name of the service from the aws console.

upvoted 2 times

😑 👗 ddddddddddww12 11 months ago

is A not the serverless ? upvoted 1 times

🖃 🌡 MrAWSAssociate 11 months, 4 weeks ago

Selected Answer: C

C, more specific "Aurora Serverless V2", check the link: https://aws.amazon.com/rds/aurora/serverless/ upvoted 2 times

A company uses AWS Organizations with resources tagged by account. The company also uses AWS Backup to back up its AWS infrastructure resources. The company needs to back up all AWS resources.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS Config to identify all untagged resources. Tag the identified resources programmatically. Use tags in the backup plan.

- B. Use AWS Config to identify all resources that are not running. Add those resources to the backup vault.
- C. Require all AWS account owners to review their resources to identify the resources that need to be backed up.
- D. Use Amazon Inspector to identify all noncompliant resources.

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 TariqKipkemei 7 months ago

Selected Answer: A

Use AWS config to deploy the tag rule and remediate resources that are not compliant. upvoted 3 times

□ ▲ Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

This option has the least operational overhead:

AWS Config continuously evaluates resource configurations and can identify untagged resources Resources can be programmatically tagged via the AWS SDK based on Config data Backup plans can use tag criteria to automatically back up newly tagged resources No manual review or resource discovery needed upvoted 2 times

😑 🚢 Bill1000 1 year ago

Selected Answer: A Vote A

upvoted 2 times

😑 💄 nosense 1 year ago

Selected Answer: A

a valid for me upvoted 3 times

😑 🛔 cloudenthusiast 1 year ago

Selected Answer: A

This solution allows you to leverage AWS Config to identify any untagged resources within your AWS Organizations accounts. Once identified, you can programmatically apply the necessary tags to indicate the backup requirements for each resource. By using tags in the backup plan configuration, you can ensure that only the tagged resources are included in the backup process, reducing operational overhead and ensuring all necessary resources are backed up.

upvoted 3 times

A social media company wants to allow its users to upload images in an application that is hosted in the AWS Cloud. The company needs a solution that automatically resizes the images so that the images can be displayed on multiple device types. The application experiences unpredictable traffic patterns throughout the day. The company is seeking a highly available solution that maximizes scalability.

What should a solutions architect do to meet these requirements?

A. Create a static website hosted in Amazon S3 that invokes AWS Lambda functions to resize the images and store the images in an Amazon S3 bucket.

B. Create a static website hosted in Amazon CloudFront that invokes AWS Step Functions to resize the images and store the images in an Amazon RDS database.

C. Create a dynamic website hosted on a web server that runs on an Amazon EC2 instance. Configure a process that runs on the EC2 instance to resize the images and store the images in an Amazon S3 bucket.

D. Create a dynamic website hosted on an automatically scaling Amazon Elastic Container Service (Amazon ECS) cluster that creates a resize job in Amazon Simple Queue Service (Amazon SQS). Set up an image-resizing program that runs on an Amazon EC2 instance to process the resize jobs.

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: A

By using Amazon S3 and AWS Lambda together, you can create a serverless architecture that provides highly scalable and available image resizing capabilities. Here's how the solution would work:

Set up an Amazon S3 bucket to store the original images uploaded by users.

Configure an event trigger on the S3 bucket to invoke an AWS Lambda function whenever a new image is uploaded. The Lambda function can be designed to retrieve the uploaded image, perform the necessary resizing operations based on device requirements, and store the resized images back in the S3 bucket or a different bucket designated for resized images. Configure the Amazon S3 bucket to make the resized images publicly accessible for serving to users.

upvoted 16 times

😑 💄 cnureddy [Most Recent 🕗] 1 week, 5 days ago

How can end user upload an image to S3 bucket with static hosting. I believe it should be dynamic website (Answer D) upvoted 1 times

😑 🌲 mr123dd 5 months, 1 week ago

image = static = S3 or cloudfront but image is unstructured data so you dont store it in a relational database like RDS and Step Function is not for processing So A upvoted 1 times

🖃 🎩 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

This meets all the key requirements:

S3 static website provides high availability and auto scaling to handle unpredictable traffic Lambda functions invoked from the S3 site can resize images on the fly Storing images in S3 buckets provides durability, scalability and high throughput Serverless approach with S3 and Lambda maximizes scalability and availability upvoted 1 times

😑 💄 TarigKipkemei 10 months, 4 weeks ago

Selected Answer: A

Scalability = S3, Lamda automatically resize images = Lambda upvoted 2 times

A company is running a microservices application on Amazon EC2 instances. The company wants to migrate the application to an Amazon Elastic Kubernetes Service (Amazon EKS) cluster for scalability. The company must configure the Amazon EKS control plane with endpoint private access set to true and endpoint public access set to false to maintain security compliance. The company must also put the data plane in private subnets. However, the company has received error notifications because the node cannot join the cluster.

Which solution will allow the node to join the cluster?

A. Grant the required permission in AWS Identity and Access Management (IAM) to the AmazonEKSNodeRole IAM role.

B. Create interface VPC endpoints to allow nodes to access the control plane.

C. Recreate nodes in the public subnet. Restrict security groups for EC2 nodes.

D. Allow outbound traffic in the security group of the nodes.

Correct Answer: *B*

Community vote distribution

B (52%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: B

By creating interface VPC endpoints, you can enable the necessary communication between the Amazon EKS control plane and the nodes in private subnets. This solution ensures that the control plane maintains endpoint private access (set to true) and endpoint public access (set to false for security compliance.

upvoted 17 times

😑 🚢 y0 (Highly Voted 🖬) 1 year ago

Selected Answer: A

Check this : https://docs.aws.amazon.com/eks/latest/userguide/create-node-role.html

A (48%)

Also, EKS does not require VPC endpoints. This is not the right use case for EKS upvoted 16 times

E **& TwinSpark** 1 month ago

correct i was going for B, but A looks better.

https://docs.aws.amazon.com/eks/latest/userguide/cluster-endpoint.html

"When you enable endpoint private access for your cluster, Amazon EKS creates a Route 53 private hosted zone on your behalf and associates i with your cluster's VPC. This private hosted zone is managed by Amazon EKS, and it doesn't appear in your account's Route 53 resources. " upvoted 1 times

E & h0ng97_spare_002 2 months, 2 weeks ago

https://docs.aws.amazon.com/eks/latest/userguide/create-node-role.html#:~:text=Before,launched

"Before you can launch nodes and register them into a cluster, you must create an IAM role for those nodes to use when they are launched." upvoted 2 times

😑 👗 Rocconno (Most Recent 🕐) 22 hours, 54 minutes ago

Selected Answer: B

https://docs.aws.amazon.com/eks/latest/userguide/private-clusters.html

"Any self-managed nodes must be deployed to subnets that have the VPC interface endpoints that you require. If you create a managed node group, the VPC interface endpoint security group must allow the CIDR for the subnets, or you must add the created node security group to the VPC interface endpoint security group."

upvoted 1 times

😑 💄 stalk98 1 month ago

I Think is A

upvoted 1 times

😑 🌲 trinh_le 1 month, 2 weeks ago

Selected Answer: B

B is good to go upvoted 2 times

E 🌢 JackyCCK 2 months ago

S3/DynamoDB - VPC endpoint, other service should use interface endpoint so B is incorrect upvoted 1 times

😑 💄 bujuman 2 months, 1 week ago

Selected Answer: B

Because of these two assertions:

- Amazon EKS control plane with endpoint private access set to true and endpoint public access set to false to maintain security compliance. (The company must also put the data plane in private subnets.

The best answer is related to Networking, Private Subnets (EKS Ctr Plane is strictly private and Data Plane stick under private subnets) and not related to EKS autodeployment that sure need an IAM policy. So according to me, answer B is the best answer.

upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

Before can launch nodes and register nodes into a EKS cluster, must create an IAM role for those nodes to use when they are launched. upvoted 2 times

😑 💄 thanhnv142 7 months, 3 weeks ago

A is correct:

To deploy a new EKS cluster:

1. Need to have a VPC and at least 2 subnets

2. An IAM role that have permission to create and describe EKS cluster

upvoted 3 times

😑 💄 thanhnv142 7 months, 3 weeks ago

A is good to go. B is not correct because they already setup connection to control plane. upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

"They already setup connection to control plane" where did you read that? upvoted 2 times

E & Bennyboy789 9 months, 2 weeks ago

Selected Answer: B

In Amazon EKS, nodes need to communicate with the EKS control plane. When the Amazon EKS control plane endpoint access is set to private, you need to create interface VPC endpoints in the VPC where your nodes are running. This allows the nodes to access the control plane privately without needing public internet access.

upvoted 2 times

😑 👗 Smart 9 months, 3 weeks ago

Selected Answer: A

This should be an associate-level question.

https://repost.aws/knowledge-center/eks-worker-nodes-cluster https://docs.aws.amazon.com/eks/latest/userguide/create-node-role.html upvoted 3 times

😑 👗 Smart 9 months, 3 weeks ago

This should NOT be an associate-level question upvoted 6 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Since the EKS control plane has public access disabled and is in private subnets, the EKS nodes in the private subnets need interface VPC endpoint to reach the control plane API.

Creating these interface endpoints allows the EKS nodes to communicate with the control plane privately within the VPC to join the cluster. upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

1 A /L

Why B

Private Control Plane: You've configured the Amazon EKS control plane with private endpoint access, which means the control plane is not accessible over the public internet.

VPC Endpoints: When the control plane is set to private access, you need to set up VPC endpoints for the Amazon EKS service so that the node: in your private subnets can communicate with the EKS control plane without going through the public internet. These are known as interface VPC endpoints.

upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Reason why, not A While security groups and IAM permissions are important considerations for networking and authentication, they alone won't resolve the issue of nodes not being able to join the cluster when the control plane is configured for private access. upvoted 2 times

😑 🌲 0628atv 11 months ago

Selected Answer: A

because the node cannot join the cluster.

upvoted 3 times

□ ▲ Iragmt 11 months, 1 week ago

Selected Answer: A

A. When it comes to troubleshooting, First thing to do is to check the if the proper permissions are given to the roles. Since the question doesn't mention any procedure how they configure/created the eks cluster and nodes, you need to check on the policies and it is also a requirement on creating EKS

You can check this site https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html https://docs.aws.amazon.com/eks/latest/userguide/create-node-role.html upvoted 2 times

😑 💄 jaydesai8 11 months, 1 week ago

Selected Answer: B

As mention in the link below

Kubernetes API requests within your cluster's VPC (such as node to control plane communication) use the private VPC endpoint. https://docs.aws.amazon.com/eks/latest/userguide/cluster-endpoint.html

Answer is B upvoted 1 times

😑 💄 narddrer 11 months, 1 week ago

Selected Answer: B

Question is more about Private and public endpoint for nodes, more about routing and registering than accessing. as per the link https://docs.aws.amazon.com/eks/latest/userguide/cluster-endpoint.html

upvoted 1 times

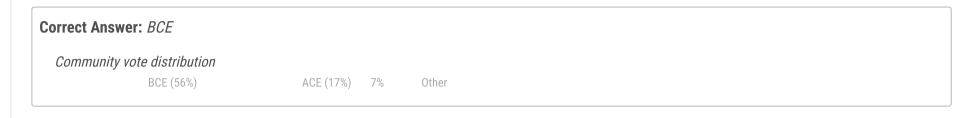
A company is migrating an on-premises application to AWS. The company wants to use Amazon Redshift as a solution.

Which use cases are suitable for Amazon Redshift in this scenario? (Choose three.)

A. Supporting data APIs to access data with traditional, containerized, and event-driven applications

- B. Supporting client-side and server-side encryption
- C. Building analytics workloads during specified hours and when the application is not active
- D. Caching data to reduce the pressure on the backend database
- E. Scaling globally to support petabytes of data and tens of millions of requests per minute

F. Creating a secondary replica of the cluster by using the AWS Management Console



😑 🌲 elmogy (Highly Voted 🖬) 1 year ago

Selected Answer: BCE

Amazon Redshift is a data warehouse solution, so it is suitable for:

-Supporting encryption (client-side and server-side)

-Handling analytics workloads, especially during off-peak hours when the application is less active

-Scaling to large amounts of data and high query volumes for analytics purposes

The following options are incorrect because:

A) Data APIs are not typically used with Redshift. It is more for running SQL queries and analytics.

D) Redshift is not typically used for caching data. It is for analytics and data warehouse purposes.

F) Redshift clusters do not create replicas in the management console. They are standalone clusters. you could create DR cluster from snapshot and restore to another region (automated or manual) but I do not think this what is meant in this option.

upvoted 15 times

😑 🌲 pentium75 5 months, 1 week ago

"Data APIs are not typically used with Redshift" -> "With the Data API, you can programmatically access data in your Amazon Redshift cluster from different AWS services such as AWS Lambda, Amazon SageMaker notebooks, AWS Cloud9, and also your on-premises applications using the AWS SDK. This allows you to build cloud-native, containerized, serverless, web-based, and event-driven applications on the AWS Cloud." upvoted 1 times

□ ▲ NSA_Poker Most Recent ② 1 week, 2 days ago

Selected Answer: BCE

The following are obviously incorrect:

(D) Redshift is not as suitable as ElastiCache for caching.

(F) A secondary replica of the cluster is not supported.

The debate is between BCE & ACE or simplified, between A & C.

(A) is incorrect bc there is a difference btw Amazon Redshift Data API & API Gateway. API Gateway supports containerized and serverless workloads, as well as web applications. Amazon Redshift Data API is a built in API to access Redshift data with web services-based applications, including AWS Lambda, Amazon SageMaker notebooks, and AWS Cloud9.

https://aws.amazon.com/blogs/big-data/build-a-serverless-analytics-application-with-amazon-redshift-and-amazon-api-gateway/

(B) is correct. You have the following options of protecting data at rest in Amazon Redshift. Use server-side encryption OR use client-side encryption

https://docs.aws.amazon.com/redshift/latest/mgmt/security-encryption.html

upvoted 1 times

😑 💄 JackyCCK 2 months ago

Redshift is OLAP(online analytical processing) so D is wrong, "when the application is not active" upvoted 1 times

😑 🌲 JackyCCK 2 months ago

*C is wrong upvoted 1 times

😑 💄 awsgeek75 5 months ago

Selected Answer: ACE

A, C, E are for data and Redshift is data warehouse. B is too generic of a choice D caching is not the main purpose of Redshift F replication is not main use of Redshift

CE are easy

Between AB, I chose A because Redshift supports data API and client-side encryption is not Redshift specific upvoted 2 times

😑 💄 1rob 5 months ago

Selected Answer: ABD

A: source https://aws.amazon.com/blogs/big-data/using-the-amazon-redshift-data-api-to-interact-with-amazon-redshift-clusters/ B: source: https://docs.aws.amazon.com/redshift/latest/mgmt/security-encryption.html

C: not sure, but you can configure scheduled queries, but the remark " and when the application is not active ", that is not relevant. D: source https://docs.aws.amazon.com/redshift/latest/dg/c_challenges_achieving_high_performance_queries.html

E: Scaling globally is not supported; redshift is only a regional service.

F: only read replica is supported. So not a secondary replica of the cluster.

upvoted 2 times

😑 🎍 pentium75 5 months, 1 week ago

Selected Answer: ABD

A: https://aws.amazon.com/de/blogs/big-data/get-started-with-the-amazon-redshift-data-api/ B: https://docs.aws.amazon.com/redshift/latest/mgmt/security-encryption.html D: https://docs.aws.amazon.com/redshift/latest/dg/c_challenges_achieving_high_performance_queries.html#result-caching

Not C: Redshift is a Data Warehouse; you can use that for analytics, but it is not directly related to an "application" Not E: "Petabytes of data" yes, but "tens of millions of requests per minute" is not a typical feature of Redshift Nor F: Replicas are not a Redshift feature

upvoted 1 times

🖃 🎩 TariqKipkemei 7 months ago

Selected Answer: ACE

Technically both options A and B apply, this is from the links below:

A. You can access your Amazon Redshift database using the built-in Amazon Redshift Data API. https://docs.aws.amazon.com/redshift/latest/mgmt/data-api.html#:~:text=in%20Amazon%20Redshift-,Data%20API,-.%20Using%20this%20API

B. You can encrypt data client-side and upload the encrypted data to Amazon Redshift. In this case, you manage the encryption process, the encryption keys, and related tools.

https://docs.aws.amazon.com/redshift/latest/mgmt/security-encryption.html#:~:text=Use-,client%2Dside,encryption%20%E2%80%93%20You%20can upvoted 1 times

🖃 🎍 potomac 7 months, 1 week ago

Selected Answer: ABC

Amazon Redshift provides a Data API that you can use to painlessly access data from Amazon Redshift with all types of traditional, cloud-native, and containerized, serverless web services-based and event-driven applications.

Amazon Redshift supports up to 500 concurrent queries per cluster, which may be expanded by adding more nodes to the cluster. upvoted 3 times

E **a** potomac 7 months, 1 week ago

change to ABD

To reduce guery runtime and improve system performance, Amazon Redshift caches the results of certain types of gueries in memory on the leader node. When a user submits a query, Amazon Redshift checks the results cache for a valid, cached copy of the query results. If a match is found in the result cache, Amazon Redshift uses the cached results and doesn't run the query. Result caching is transparent to the user. upvoted 1 times

😑 🎍 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: BCE

The key use cases for Amazon Redshift that fit this scenario are:

B) Redshift supports both client-side and server-side encryption to protect sensitive data.

C) Redshift is well suited for running batch analytics workloads during off-peak times without affecting OLTP systems.

E) Redshift can scale to massive datasets and concurrent users to support large analytics workloads. upvoted 2 times

E 🕹 cd93 9 months, 3 weeks ago

Selected Answer: BCD

Why E lol? It's a data warehouse! it has no need to support millions of requests, it is not mentioned anywhere (https://aws.amazon.com/redshift/features)

In fact Redshift editor supports max 500 connections and workgroup support max 2000 connections at once, see it's quota page Redshift has a cache layer, D is correct

upvoted 3 times

😑 💄 mrsoa 10 months, 2 weeks ago

Selected Answer: BCE

BCE, For B this is why

https://docs.aws.amazon.com/redshift/latest/mgmt/security-encryption.html upvoted 1 times

😑 👗 james2033 11 months ago

Selected Answer: ACE

Quote: "The Data API enables you to seamlessly access data from Redshift Serverless with all types of traditional, cloud-native, and containerized serverless web service-based applications and event-driven applications." at https://aws.amazon.com/blogs/big-data/use-the-amazon-redshift-data-api-to-interact-with-amazon-redshift-serverless/ (28/4/2023). Choose A. B and C are next chosen correct answers. upvoted 2 times

😑 💄 james2033 11 months ago

Typo, I want said "C and E are next chosen correct answers." upvoted 2 times

😑 👗 0628atv 11 months ago

Selected Answer: ACE

https://docs.aws.amazon.com/redshift/latest/mgmt/welcome.html upvoted 2 times

😑 👗 Rob1L 1 year ago

Selected Answer: BCE

B. Supporting client-side and server-side encryption: Amazon Redshift supports both client-side and server-side encryption for improved data security.

C. Building analytics workloads during specified hours and when the application is not active: Amazon Redshift is optimized for running complex analytic queries against very large datasets, making it a good choice for this use case.

E. Scaling globally to support petabytes of data and tens of millions of requests per minute: Amazon Redshift is designed to handle petabytes of data, and to deliver fast query and I/O performance for virtually any size dataset. upvoted 4 times

😑 💄 omoakin 1 year ago

CEF for me upvoted 2 times

😑 🌡 Efren 1 year ago

A seems correct

The Data API enables you to seamlessly access data from Redshift Serverless with all types of traditional, cloud-native, and containerized serverless web service-based applications and event-driven applications.

upvoted 1 times

😑 🌡 Efren 1 year ago

BCE for me upvoted 1 times

y0 1 year ago U mean ACE rite? upvoted 1 times

😑 🌡 Efren 1 year ago

Yeah not sure, but i would say ACE upvoted 1 times

A company provides an API interface to customers so the customers can retrieve their financial information. Ehe company expects a larger number of requests during peak usage times of the year.

The company requires the API to respond consistently with low latency to ensure customer satisfaction. The company needs to provide a compute host for the API.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use an Application Load Balancer and Amazon Elastic Container Service (Amazon ECS).

B. Use Amazon API Gateway and AWS Lambda functions with provisioned concurrency.

C. Use an Application Load Balancer and an Amazon Elastic Kubernetes Service (Amazon EKS) cluster.

D. Use Amazon API Gateway and AWS Lambda functions with reserved concurrency.

Correct Answer: *B*

Community vote distribution

A (23%)

😑 🛔 cloudenthusiast (Highly Voted 🖬) 1 year ago

B (77%)

Selected Answer: B

In the context of the given scenario, where the company wants low latency and consistent performance for their API during peak usage times, it would be more suitable to use provisioned concurrency. By allocating a specific number of concurrent executions, the company can ensure that there are enough function instances available to handle the expected load and minimize the impact of cold starts. This will result in lower latency and improved performance for the API.

upvoted 11 times

😑 🚢 Bennyboy789 (Highly Voted 🐽) 9 months, 2 weeks ago

Selected Answer: B

Provisioned - minimizing cold starts and providing low latency. upvoted 6 times

😑 🆀 awsgeek75 Most Recent 🕗 5 months ago

Selected Answer: A

https://docs.aws.amazon.com/lambda/latest/dg/lambda-concurrency.html#reserved-and-provisioned

Consistency decreases if you exceed your provisioned instance. Lets say you have 1000 (default) provisioned instances and the load is 1500. The new 500 will have to wait until the first 1000 concurrent calls finish. This is solved by increasing the provisioned concurrency to 1500. upvoted 2 times

😑 💄 **1rob** 6 months, 2 weeks ago

Selected Answer: A

So I have my doubts here. The question also states ;"The company needs to provide a compute host for the API." Imho this implies to have some sort of physical host which has to be provided by the customer. Translating this further to aws this would mean an EC2 instance. And then when I would go for ECS in stead of EKS.

Please share your opinion.

upvoted 5 times

E & pdragon1981 5 months, 2 weeks ago

Exactly, inicially I was thinking on B but if company must provide a host I would say that only option A is feasible upvoted 2 times

😑 🌲 pdragon1981 5 months, 2 weeks ago

Sorry I understand bad the text, coorect answer is B, as for my understanding now the host is the device that the costumer needs to connect with API Gateway, bellow explains well the logic https://aws.amazon.com/api-gateway/ upvoted 3 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

This option provides the least operational overhead:

API Gateway handles the API requests and integration with Lambda Lambda automatically scales compute without managing servers Provisioned concurrency ensures consistent low latency by keeping functions initialized No need to manage containers or orchestration platforms as with ECS/EKS upvoted 2 times

😑 🌲 TariqKipkemei 10 months, 4 weeks ago

Selected Answer: B

The company requires the API to respond consistently with low latency to ensure customer satisfaction especially during high peak periods, there i no mention of cost efficient. Hence provisioned concurrency is the best option.

Provisioned concurrency is the number of pre-initialized execution environments you want to allocate to your function. These execution environments are prepared to respond immediately to incoming function requests. Configuring provisioned concurrency incurs charges to your AWS account.

https://docs.aws.amazon.com/lambda/latest/dg/provisioned-concurrency.html#:~:text=for%20a%20function.-,Provisioned%20concurrency,-%E2%80%93%20Provisioned%20concurrency%20is

upvoted 1 times

😑 🌲 MirKhobaeb 1 year ago

Selected Answer: B

AWS Lambda provides a highly scalable and distributed infrastructure that automatically manages the underlying compute resources. It automatically scales your API based on the incoming request load, allowing it to respond consistently with low latency, even during peak times. AWS Lambda takes care of infrastructure provisioning, scaling, and resource management, allowing you to focus on writing the code for your API logic.

upvoted 3 times

A company wants to send all AWS Systems Manager Session Manager logs to an Amazon S3 bucket for archival purposes.

Which solution will meet this requirement with the MOST operational efficiency?

A (92%)

A. Enable S3 logging in the Systems Manager console. Choose an S3 bucket to send the session data to.

B. Install the Amazon CloudWatch agent. Push all logs to a CloudWatch log group. Export the logs to an S3 bucket from the group for archival purposes.

C. Create a Systems Manager document to upload all server logs to a central S3 bucket. Use Amazon EventBridge to run the Systems Manager document against all servers that are in the account daily.

D. Install an Amazon CloudWatch agent. Push all logs to a CloudWatch log group. Create a CloudWatch logs subscription that pushes any incoming log events to an Amazon Kinesis Data Firehose delivery stream. Set Amazon S3 as the destination.

Correct Answer: D

Community vote distribution

8%

😑 💄 awsgeek75 5 months ago

Selected Answer: A

Most efficient is A because it is a direct option in SM logging. B can work but is more operational overhead as you end up using CloudWatch (not sure how but making assumption based on language of option) C is definitely too much work D Way too many moving parts upvoted 2 times

😑 💄 master9 5 months, 2 weeks ago

Selected Answer: A

send logs to Amazon S3 from AWS Systems Manager Session Manager. Here are the steps to do so:

Enable S3 Logging: Open the AWS Systems Manager console. In the navigation pane, choose Session Manager. Choose the Preferences tab, and then choose Edit. Select the check box next to Enable under S3 logging.

Create an S3 Bucket: To store the Session Manager logs, create an S3 bucket to hold the audit logs from the Session Manager interactive shell usage.

Configure IAM Role: AWS Systems Manager Agent (SSM Agent) uses the same AWS Identity and Access Management (IAM) role to activate itself and upload logs to Amazon S3. You can use either an IAM instance profile that's attached to an Amazon Elastic Compute Cloud (Amazon EC2) instance or the IAM role that's configured for the Default Host Management Configuration.

upvoted 4 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: A

You can choose to store session log data in a specified Amazon Simple Storage Service (Amazon S3) bucket for debugging and troubleshooting purposes.

upvoted 1 times

😑 💄 deechean 9 months, 2 weeks ago

Selected Answer: A

You can config the log archived to S3 in the Session Manager - > preference tab. Another option is CloudWatch log. https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-logging.html#session-manager-logging-s3 upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

°Simplicity - Enabling S3 logging requires just a simple configuration in the Systems Manager console to specify the destination S3 bucket. No other services need to be configured.

^oDirect integration - Systems Manager has native support to send session logs to S3 through this feature. No need for intermediary services.
^oAutomated flow - Once S3 logging is enabled, the session logs automatically flow to the S3 bucket without manual intervention.
^oEasy management - The S3 bucket can be managed independently for log storage and archival purposes without impacting Systems Manager.
^oCost-effectiveness - No charges for intermediate CloudWatch or Kinesis services. Just basic S3 storage costs.
^oMinimal overhead - No ongoing management of complex pipeline of services. Direct logs to S3 minimizes overhead.
^{upvoted 2 times}

😑 🌢 TariqKipkemei 10 months, 4 weeks ago

Selected Answer: A

With the MOST operational efficiency then option A is best. Otherwise B is also an option with a little bit more ops than option A.

https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-logging.html upvoted 1 times

E & Zox42 11 months, 1 week ago

Selected Answer: A

Answer A. https://aws-labs.net/winlab5-manageinfra/sessmgrlog.html upvoted 1 times

🖃 💄 Zuit 11 months, 2 weeks ago

Selected Answer: A

GPT argued for D.

B could be an option, by installing a logging package on alle managed systems/ECs etc. https://docs.aws.amazon.com/systems-manager/latest/userguide/distributor-working-with-packages-deploy.html

However, as it mentions the "Session manager logs" I would tend towards A. upvoted 1 times

😑 🌲 MrAWSAssociate 11 months, 4 weeks ago

Selected Answer: A

It should be "A".

https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-logging.html upvoted 1 times

😑 👗 secdgs 12 months ago

Selected Answer: A

It have menu to Enable S3 Logging.

https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-logging.html#session-manager-logging-s3 upvoted 1 times

😑 🌲 Markie999 1 year ago

Selected Answer: B BBBBBBBBB

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Install the CloudWatch agent" where? upvoted 1 times

😑 🌲 Bill1000 1 year ago

Selected Answer: B

The option 'A' says "Enable S3 logging in the Systems Manager console." This means that you will enable the logs !! FOR !! S3 events and its is not what the question asks. My vote is for Option B, based on this article: https://docs.aws.amazon.com/AmazonS3/latest/userguide/logging-with-S3.html

upvoted 1 times

😑 💄 baba365 11 months, 1 week ago

To log session data using Amazon S3 (console)

Open the AWS Systems Manager console at https://console.aws.amazon.com/systems-manager/. In the navigation pane, choose Session Manager. Choose the Preferences tab, and then choose Edit. Select the check box next to Enable under S3 logging.

upvoted 2 times

😑 🌲 **vrevkov** 11 months, 4 weeks ago

But where do you want to install the Amazon CloudWatch agent in case of B? upvoted 1 times

😑 🏝 omoakin 1 year ago

DDDDDD

upvoted 1 times

😑 🌡 Anmol_1010 1 year ago

Option D is definetely not right, Its optiom B upvoted 1 times

😑 🌡 omoakin 1 year ago

Chat GPT says option A is incorrect cos it requires enabling S3 logging in the system manager console only logs information about the systems manager service not the session logs

Says correct answer is B upvoted 1 times

😑 👗 [Removed] 1 year ago

Question may not be very clear. A should be the answer. Below link is the documetation: https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-logging.html#session-manager-logging-s3 upvoted 4 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: A

option A does not involve CloudWatch, while option D does. Therefore, in terms of operational overhead, option A would generally have less complexity and operational overhead compared to option D.

Option A simply enables S3 logging in the Systems Manager console, allowing you to directly send session logs to an S3 bucket. This approach is straightforward and requires minimal configuration.

On the other hand, option D involves installing and configuring the Amazon CloudWatch agent, creating a CloudWatch log group, setting up a CloudWatch Logs subscription, and configuring an Amazon Kinesis Data Firehose delivery stream to store logs in an S3 bucket. This requires additional setup and management compared to option A.

So, if minimizing operational overhead is a priority, option A would be a simpler and more straightforward choice. upvoted 4 times

😑 💄 nosense 1 year ago

Selected Answer: A

A MOST operational efficiency? upvoted 3 times

An application uses an Amazon RDS MySQL DB instance. The RDS database is becoming low on disk space. A solutions architect wants to increase the disk space without downtime.

Which solution meets these requirements with the LEAST amount of effort?

- A. Enable storage autoscaling in RDS
- B. Increase the RDS database instance size
- C. Change the RDS database instance storage type to Provisioned IOPS
- D. Back up the RDS database, increase the storage capacity, restore the database, and stop the previous instance

Correct Answer: *A*

Community vote distribution

A (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: A

Enabling storage autoscaling allows RDS to automatically adjust the storage capacity based on the application's needs. When the storage usage exceeds a predefined threshold, RDS will automatically increase the allocated storage without requiring manual intervention or causing downtime. This ensures that the RDS database has sufficient disk space to handle the increasing storage requirements. upvoted 10 times

😑 👗 potomac Most Recent 🕑 7 months, 1 week ago

Selected Answer: A

Amazon RDS for MariaDB, Amazon RDS for MySQL, Amazon RDS for PostgreSQL, Amazon RDS for SQL Server and Amazon RDS for Oracle suppor RDS Storage Auto Scaling. RDS Storage Auto Scaling automatically scales storage capacity in response to growing database workloads, with zero downtime.

upvoted 2 times

😑 🆀 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

This question is so obvious upvoted 3 times

E 🌡 TariqKipkemei 10 months, 4 weeks ago

Selected Answer: A

RDS Storage Auto Scaling continuously monitors actual storage consumption, and scales capacity up automatically when actual utilization approaches provisioned storage capacity. Auto Scaling works with new and existing database instances. You can enable Auto Scaling with just a few clicks in the AWS Management Console. There is no additional cost for RDS Storage Auto Scaling. You pay only for the RDS resources needed to run your applications.

https://aws.amazon.com/about-aws/whats-new/2019/06/rds-storage-autoscaling/#:~:text=of%20the%20rest.-,RDS%20Storage%20Auto%20Scaling,-continuously%20monitors%20actual upvoted 2 times

😑 💄 james2033 11 months ago

Selected Answer: A

Quote "Amazon RDS now supports Storage Auto Scaling" and "... with zero downtime." (Jun 20th 2019) at https://aws.amazon.com/aboutaws/whats-new/2019/06/rds-storage-auto-scaling/ upvoted 2 times

😑 💄 james2033 11 months ago

Hello moderator, please help me delete this discussion, I already add content before this comment. upvoted 1 times

😑 💄 james2033 11 months ago

Selected Answer: A

See "Amazon RDS now supports Storage Auto Scaling. Posted On: Jun 20, 2019. Starting today, Amazon RDS for MariaDB, Amazon RDS for MySQL Amazon RDS for PostgreSQL, Amazon RDS for SQL Server and Amazon RDS for Oracle support RDS Storage Auto Scaling. RDS Storage Auto Scaling automatically scales storage capacity in response to growing database workloads, with zero downtime." at https://aws.amazon.com/aboutaws/whats-new/2019/06/rds-storage-auto-scaling/ upvoted 2 times

😑 🌲 haoAWS 11 months, 3 weeks ago

Selected Answer: A

A is the best answer.

B will not work for increasing disk space, it only improve the IO performance.

C will not work because it will cause downtime. D is too complicated and need much operational effort.

upvoted 1 times

😑 🚨 [Removed] 1 year ago

https://aws.amazon.com/about-aws/whats-new/2019/06/rds-storage-auto-scaling/ upvoted 1 times

😑 👗 Anmol_1010 1 year ago

The key word is No Down time. A would be bewt option upvoted 2 times

Which solution will meet these requirements?

- A. Create AWS CloudFormation templates for the customers.
- B. Create AWS Service Catalog products for the customers.
- C. Create AWS Systems Manager templates for the customers.
- D. Create AWS Config items for the customers.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 🌲 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: B

AWS Service Catalog allows you to create and manage catalogs of IT services that can be deployed within your organization. With Service Catalog, you can define a standardized set of products (solutions and tools in this case) that customers can self-service provision. By creating Service Catalog products, you can control and enforce the deployment of approved and validated solutions and tools. upvoted 8 times

😑 👗 Oblako 6 months, 2 weeks ago

"within your organization" => not for customers upvoted 1 times

😑 💄 Guru4Cloud [Most Recent 🕗] 9 months, 3 weeks ago

Selected Answer: B

Some key advantages of using Service Catalog:

Centralized management - Products can be maintained in a single catalog for easy discovery and governance. Self-service access - Customers can deploy the solutions on their own without manual intervention. Standardization - Products provide pre-defined templates for consistent deployment. Access control - Granular permissions can be applied to restrict product visibility and access. Reporting - Service Catalog provides detailed analytics on product usage and deployments. upvoted 4 times

😑 💄 hsinchang 10 months, 3 weeks ago

Selected Answer: B

CloudFormation: a code as infrastructure service Systems Manager: management solution for resources Config: assess, audit and evaluate configurations Other options does not fit this scenario. upvoted 1 times

😑 👗 TariqKipkemei 10 months, 4 weeks ago

Selected Answer: B

AWS Service Catalog lets you centrally manage your cloud resources to achieve governance at scale of your infrastructure as code (IaC) templates, written in CloudFormation or Terraform. With AWS Service Catalog, you can meet your compliance requirements while making sure your customer can quickly deploy the cloud resources they need.

https://aws.amazon.com/servicecatalog/#:~:text=How%20it%20works-,AWS%20Service%20Catalog,-lets%20you%20centrally upvoted 1 times

😑 🎩 Yadav_Sanjay 1 year ago

Selected Answer: B

https://docs.aws.amazon.com/servicecatalog/latest/adminguide/introduction.html upvoted 2 times

A company is designing a new web application that will run on Amazon EC2 Instances. The application will use Amazon DynamoDB for backend data storage. The application traffic will be unpredictable. The company expects that the application read and write throughput to the database will be moderate to high. The company needs to scale in response to application traffic.

Which DynamoDB table configuration will meet these requirements MOST cost-effectively?

A. Configure DynamoDB with provisioned read and write by using the DynamoDB Standard table class. Set DynamoDB auto scaling to a maximum defined capacity.

B. Configure DynamoDB in on-demand mode by using the DynamoDB Standard table class.

C. Configure DynamoDB with provisioned read and write by using the DynamoDB Standard Infrequent Access (DynamoDB Standard-IA) table class. Set DynamoDB auto scaling to a maximum defined capacity.

D. Configure DynamoDB in on-demand mode by using the DynamoDB Standard Infrequent Access (DynamoDB Standard-IA) table class.

Correct Answer: *B* Community vote distribution B (61%) A (33%) 3% 😑 👗 Efren (Highly Voted 🖬) 1 year ago B for me. Provisioned if we know how much traffic will come, but its unpredictable, so we have to go for on-demand upvoted 9 times 😑 💄 VellaDevil 11 months, 1 week ago Spot On upvoted 1 times 😑 💄 awsgeek75 (Most Recent 🕗) 5 months ago Selected Answer: B On demand https://docs.aws.amazon.com/wellarchitected/latest/serverless-applications-lens/capacity.html "With on-demand capacity mode, DynamoDB charges you for the data reads and writes your application performs on your tables. You do not need to specify how much read and write throughput you expect your application to perform because DynamoDB instantly accommodates your workloads as they ramp up or down."

upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: B

Not A because of "unpredictable" traffic Not C and D because we are expecting "moderate to high" traffic upvoted 3 times

😑 🌲 leonliu4 6 months ago

Selected Answer: B

Leaning towards B, it's hard to predict the capacity for A, and autoscaling doesn't respond fast upvoted 2 times

E **A** peekingpicker 6 months, 2 weeks ago

Selected Answer: A

it's A.

remember that :

he company expects that the application read and write throughput to the database will be moderate to high

provisioned throughput is cheaper than ondemand capacity right ? upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

but "unpredictable" which usually hints to on-demand upvoted 1 times

😑 💄 dilaaziz 7 months ago

Selected Answer: D

Data storage: https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/WorkingWithTables.tableclasses.html

upvoted 1 times

😑 💄 Mr_Marcus 1 week, 6 days ago

Actually, this link confirmed "B" for me... upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: B

On-demand mode is great for unpredictable traffic upvoted 2 times

😑 🌲 bsbs1234 8 months ago

I choose B

I think the items stored in the table in this question has large size. So each read/write, a big chunk of data pass through. A capacity unit is used to describe data throughput. provision to the high capacity units will be a waste because unpredicted traffic pattern. upvoted 1 times

😑 🌲 Bennyboy789 9 months, 2 weeks ago

Selected Answer: B Unpredictable= on demand upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

The key factors are:

With On-Demand mode, you only pay for what you use instead of over-provisioning capacity. This avoids idle capacity costs. DynamoDB Standard provides the fastest performance needed for moderate-high traffic apps vs Standard-IA which is for less frequent access. Auto scaling with provisioned capacity can also work but requires more administrative effort to tune the scaling thresholds. upvoted 1 times

😑 💄 msdnpro 10 months, 3 weeks ago

Selected Answer: B

Support for B from AWS:

On-demand mode is a good option if any of the following are true:

-You create new tables with unknown workloads.

-You have unpredictable application traffic.

-You prefer the ease of paying for only what you use.

https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/HowItWorks.ReadWriteCapacityMode.html upvoted 1 times

😑 🌲 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: B

Technically both options A and B will work. But this statement 'traffic will be unpredictable' rules out option A, because 'provisioned mode' was made for scenarios where traffic is predictable.

So I will stick with B, because 'on-demand mode' is made for unpredictable traffic and instantly accommodates workloads as they ramp up or down.

upvoted 1 times

□ ▲ 0628atv 11 months ago

Selected Answer: A

https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/AutoScaling.html upvoted 4 times

😑 🌲 wRhIH 11 months, 2 weeks ago

Selected Answer: C

Not B for sure, "The company needs to scale in response to application traffic."

Between A and C, I would choose C. Because it's a new application, and the traffic will be from moderate to high. So by choosing C, it's both costeffecitve and scalable

upvoted 1 times

E & live_reply_developers 11 months, 3 weeks ago

Selected Answer: A

"With provisioned capacity mode, you specify the number of reads and writes per second that you expect your application to require, and you are billed based on that. Furthermore if you can forecast your capacity requirements you can also reserve a portion of DynamoDB provisioned capacity and optimize your costs even further.

With provisioned capacity you can also use auto scaling to automatically adjust your table's capacity based on the specified utilization rate to ensure application performance, and also to potentially reduce costs. To configure auto scaling in DynamoDB, set the minimum and maximum levels of read and write capacity in addition to the target utilization percentage."

https://docs.aws.amazon.com/wellarchitected/latest/serverless-applications-lens/capacity.html

upvoted 3 times

😑 🛔 **F629** 11 months, 3 weeks ago

Selected Answer: A

I think it's A. B is on-demand, but it may not save money. If it's a not-busy application, on-demand may save money, but to a medium to high busy level application, I prefer a provisioned.

upvoted 1 times

😑 💄 Rob1L 1 year ago

Selected Answer: B

unpredictable = on-demand upvoted 3 times

A retail company has several businesses. The IT team for each business manages its own AWS account. Each team account is part of an organization in AWS Organizations. Each team monitors its product inventory levels in an Amazon DynamoDB table in the team's own AWS account.

The company is deploying a central inventory reporting application into a shared AWS account. The application must be able to read items from all the teams' DynamoDB tables.

Which authentication option will meet these requirements MOST securely?

A. Integrate DynamoDB with AWS Secrets Manager in the inventory application account. Configure the application to use the correct secret from Secrets Manager to authenticate and read the DynamoDB table. Schedule secret rotation for every 30 days.

B. In every business account, create an IAM user that has programmatic access. Configure the application to use the correct IAM user access key ID and secret access key to authenticate and read the DynamoDB table. Manually rotate IAM access keys every 30 days.

C. In every business account, create an IAM role named BU_ROLE with a policy that gives the role access to the DynamoDB table and a trust policy to trust a specific role in the inventory application account. In the inventory account, create a role named APP_ROLE that allows access to the STS AssumeRole API operation. Configure the application to use APP_ROLE and assume the crossaccount role BU_ROLE to read the DynamoDB table.

D. Integrate DynamoDB with AWS Certificate Manager (ACM). Generate identity certificates to authenticate DynamoDB. Configure the application to use the correct certificate to authenticate and read the DynamoDB table.

Correct Answer: C

Community vote distribution

C (100%)

😑 👗 cloudenthusiast (Highly Voted 🖬) 1 year ago

Selected Answer: C

IAM Roles: IAM roles provide a secure way to grant permissions to entities within AWS. By creating an IAM role in each business account named BU_ROLE with the necessary permissions to access the DynamoDB table, the access can be controlled at the IAM role level.

Cross-Account Access: By configuring a trust policy in the BU_ROLE that trusts a specific role in the inventory application account (APP_ROLE), you establish a trusted relationship between the two accounts.

Least Privilege: By creating a specific IAM role (BU_ROLE) in each business account and granting it access only to the required DynamoDB table, you can ensure that each team's table is accessed with the least privilege principle.

Security Token Service (STS): The use of STS AssumeRole API operation in the inventory application account allows the application to assume the cross-account role (BU_ROLE) in each business account.

upvoted 25 times

😑 🌲 TariqKipkemei 10 months, 3 weeks ago

Well broken down..thank you :) upvoted 2 times

😑 👗 Bennyboy789 (Most Recent 🕐) 9 months, 2 weeks ago

Selected Answer: C

Keyword: IAM ROLES upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

C is the most secure option to meet the requirements.

Using cross-account IAM roles and role chaining allows the inventory application to securely access resources in other accounts. The roles provide temporary credentials and can be permissions controlled.

upvoted 2 times

😑 🌲 hsinchang 10 months, 3 weeks ago

Selected Answer: C

Looks complex, but IAM role seems more probable, I go with C. upvoted 3 times

😑 💄 mattcl 11 months, 3 weeks ago

Why not A?

upvoted 3 times

⊟ ▲ awsgeek75 5 months ago

A is wrong because it is incomplete. Just integrating with secrets manager doesn't give any access to DynamoDB. upvoted 1 times

😑 🌲 antropaws 11 months, 3 weeks ago

Selected Answer: C

It's complex, but looks C. upvoted 1 times

😑 🌡 eehhssaan 1 year ago

i'll go with C .. coming from two minds upvoted 2 times

😑 💄 nosense 1 year ago

a or c. C looks like a more secure upvoted 1 times

omoakin 1 year ago CCCCCCCCCC upvoted 1 times

Which combination of steps will meet these requirements with the LEAST operational overhead? (Choose two.)

A. Use an AWS Lambda function to resize the EKS cluster.

B. Use the Kubernetes Metrics Server to activate horizontal pod autoscaling.

C. Use the Kubernetes Cluster Autoscaler to manage the number of nodes in the cluster.

D. Use Amazon API Gateway and connect it to Amazon EKS.

E. Use AWS App Mesh to observe network activity.

Correct Answer: *BC*

Community vote distribution

BC (100%)

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: BC

B and C are the correct options.

Using the Kubernetes Metrics Server (B) enables horizontal pod autoscaling to dynamically scale pods based on CPU/memory usage. This allows scaling at the application tier level.

The Kubernetes Cluster Autoscaler (C) automatically adjusts the number of nodes in the EKS cluster in response to pod resource requirements and events. This allows scaling at the infrastructure level. upvoted 5 times

😑 👗 wsdasdasdqwdaw Most Recent 🕗 7 months, 2 weeks ago

K8S Metrics Server and Autoscaler => B and C upvoted 3 times

E 🌡 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: BC

This is pretty straight forward. Use the Kubernetes Metrics Server to activate horizontal pod autoscaling. Use the Kubernetes Cluster Autoscaler to manage the number of nodes in the cluster. upvoted 4 times

😑 🌲 james2033 11 months ago

Selected Answer: BC

Kubernetes Metrics Server https://docs.aws.amazon.com/eks/latest/userguide/metrics-server.html

AWS Autoscaler https://docs.aws.amazon.com/eks/latest/userguide/autoscaling.html and https://github.com/kubernetes/autoscaler/blob/master/cluster-autoscaler/cloudprovider/aws/README.md upvoted 2 times

😑 🌲 cloudenthusiast 1 year ago

Selected Answer: BC

By combining the Kubernetes Cluster Autoscaler (option C) to manage the number of nodes in the cluster and enabling horizontal pod autoscaling (option B) with the Kubernetes Metrics Server, you can achieve automatic scaling of your EKS cluster and container applications based on workload demand. This approach minimizes operational overhead as it leverages built-in Kubernetes functionality and automation mechanisms. upvoted 4 times

😑 🌡 nosense 1 year ago

Selected Answer: BC b and c is right upvoted 1 times A company runs a microservice-based serverless web application. The application must be able to retrieve data from multiple Amazon DynamoDB tables A solutions architect needs to give the application the ability to retrieve the data with no impact on the baseline performance of the application.

Which solution will meet these requirements in the MOST operationally efficient way?

- A. AWS AppSync pipeline resolvers
- B. Amazon CloudFront with Lambda@Edge functions
- C. Edge-optimized Amazon API Gateway with AWS Lambda functions
- D. Amazon Athena Federated Query with a DynamoDB connector

Correct Answer: A				
<i>Community vote distribution</i> D (48%)	A (27%)	B (25%)		
😑 💄 elmogy (Highly Voted 🖬) 1 year	ago			

just passed yesterday 30-05-23, around 75% of the exam came from here, some with light changes. upvoted 25 times

😑 📥 omoakin (Highly Voted 🖬) 1 year ago

Great work made it to the last question. Goodluck to you all upvoted 15 times

E & Drew3000 2 months, 2 weeks ago

I am jealous that 10 months ago there were only 523 questions :(upvoted 5 times

E **Awsbeginner87** 2 months, 2 weeks ago

right...how to go through 840 questions :(upvoted 1 times

E **Awsbeginner87** 2 months, 2 weeks ago

moderators answer is wrong for many questions.which one should we consider:(upvoted 1 times

😑 🌲 MostofMichelle 1 year ago

good luck to you as well. upvoted 4 times

E **& cyber_bedouin** 7 months, 3 weeks ago

Thanks. Do you think the questions after 500 after relevant, they seem to be above associate level (harder) upvoted 4 times

😑 🌲 use4u (Most Recent 🕗 1 month, 3 weeks ago

let me know for most of questions that system answer are correct or comment answer are correct? upvoted 1 times

😑 🌲 Sergiuss95 1 month, 2 weeks ago

Comment answer

upvoted 1 times

😑 💄 osmk 3 months, 3 weeks ago

Selected Answer: D

https://docs.amazonaws.cn/en_us/athena/latest/ug/connect-to-a-data-source.html upvoted 3 times

😑 🌲 upliftinghut 4 months, 3 weeks ago

Selected Answer: D

key word is most operational effective => D requires no coding upvoted 2 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: D

I'll go with D as ABC looks too much work or irrelevant. Although not sure how AFQ actually achieves the read without impacting performance. upvoted 2 times

🖃 🎍 pentium75 5 months, 1 week ago

Selected Answer: D

Not A - Pipe Resolvers require coding, would not consider that 'operationally efficient'

Not B - CloudFront caches web content at the edge, not DynamoDB guery results for apps

Not C - Neither API Gateway or Lambda have anything to do with DynamoDB performance

D - Can do exactly that

upvoted 7 times

😑 👗 aws94 6 months ago

Selected Answer: A

I am not an expert but I used Bing+Gemini+Chatgbt=AAA upvoted 2 times

😑 🆀 ekisako 6 months, 1 week ago

Selected Answer: A

multiple database tables = AppSync pipeline resolvers upvoted 6 times

😑 🆀 hungta 6 months, 4 weeks ago

Selected Answer: B

For an operationally efficient solution that minimizes impact on baseline performance in a microservice-based serverless web application retrievinc data from multiple DynamoDB tables, Amazon CloudFront with Lambda@Edge functions (Option B) is often the most suitable choice upvoted 1 times

😑 🎍 pentium75 5 months, 1 week ago

CloudFront to retrieve data from DynamoDB tables? upvoted 2 times

😑 💄 thanhnv142 7 months, 3 weeks ago

D is correct. There is contruction of how to retrive data from DynamoDB with Anthena https://docs.aws.amazon.com/athena/latest/ug/connect-to-a-data-source.html upvoted 1 times

😑 🆀 pmlabs 8 months, 1 week ago

The Answer is A. Some use case for AWS AppSync is Unified data access. Consolidate data from multiple databases, APIs, and microservices in a single network call, from a single endpoint, abstracting backend complexity https://aws.amazon.com/pm/appsync/?trk=e37f908f-322e-4ebc-9def-9eafa78141b8&sc_channel=ps&ef_id=Cj0KCQjwmvSoBhDOARIsAK6aV7jtg2I6jyXBH6_uUOKRrRoLmXQxaGbwYBP0aO1-RmauWW55DuXSGTMaAnT9EALw_wcB:G:s&s_kwcid=AL!4422!3!647301987556!e!!g!!aws%20appsync!19613610159!148358960849 upvoted 4 times

😑 🆀 Linerd 9 months ago

Selected Answer: B

B - seems more operationally efficient

A: example to make use of GraphQL with multi DynamoDB tables https://www.youtube.com/watch?v=HSDKN43Vx7U but it seems not the most operationally efficient to set it up

D: it can be useful when needs to join multi DynamoDB tables But also "querying DynamoDB using Athena can be slower and more expensive than querying directly using DynamoDB" refer to https://medium.com/@saswat.sahoo.1988/combine-the-simplicity-of-sql-with-the-power-of-nosql-pt-2-cff1c524297e upvoted 1 times

😑 📥 skyphilip 9 months, 1 week ago



Selected Answer: A

A is correct.

https://aws.amazon.com/blogs/mobile/appsync-pipeline-resolvers-2/ upvoted 1 times

😑 上 BrijMohan08 9 months, 2 weeks ago

Selected Answer: A

https://aws.amazon.com/pm/appsync/?trk=66d9071f-eec2-471d-9fc0-c374dbda114d&sc_channel=ps&ef_id=CjwKCAjww7KmBhAyEiwA5-PUSi9OTSRu78WOh7NuprwbbfjyhVXWI4tBIPquEqRIXGn-HLFh5qOqfRoCOmMQAvD_BwE:G:s&s_kwcid=AL!4422!3!646025317347!e!!g!!aws%20appsync!19610918335!148058250160 upvoted 1 times

😑 🎍 Wayne23Fang 9 months, 2 weeks ago

Selected Answer: D

I like D) the most. D. Amazon Athena Federated Query with a DynamoDB connector. I don't like A) since this is not a GraphQL query.

I don't like B). Since Query multiple tables in DynamoDB from Lambda may not be efficient. upvoted 1 times

😑 🛔 cd93 9 months, 3 weeks ago

Selected Answer: A

- A. AppSync reduces operational effort, you only need to know GraphQL, AppSync provides caching ability to reduce loads on source
- B. Also provide caches through CloudFront, but require writing more 'low-level' codes on Lambda
- D. Requires a Lambda to create connection to DynamoDB source, also no caching

upvoted 1 times

Which solution will meet these requirements with the LEAST effort?

A. Use AWS Glue and write custom scripts to query CloudTrail logs for the errors.

- B. Use AWS Batch and write custom scripts to query CloudTrail logs for the errors.
- C. Search CloudTrail logs with Amazon Athena queries to identify the errors.
- D. Search CloudTrail logs with Amazon QuickSight. Create a dashboard to identify the errors.

Correct Answer: C		
Community vote distribution C (68%)	D (32%)	

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: C

https://docs.aws.amazon.com/athena/latest/ug/cloudtrail-logs.html

When troubleshooting you will want to query specific things in the log and Athena provides query language for that.

Quick Sight is data analytics and visualisation tool. You can use it to aggregate data and maybe make a dashboard for number of errors by type et but that doesn't help you troubleshoot anything.

C is correct upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: C

"Search CloudTrail logs with Amazon QuickSight", that doesn't work. QuickSight can visualize Athena query results, so "search CloudTrail logs with Amazon Athena, then create a dashboard with Amazon QuickSight" would make sense. But QuickSight without Athena won't work. upvoted 3 times

😑 💄 Wuhao 6 months ago

Selected Answer: C

Athena is for searching upvoted 2 times

😑 🌲 **bogobob** 6 months, 4 weeks ago

Selected Answer: D

The question asks specifically to "analyze and troubleshoot". While Athena is easy to get the data, you then just have a list of logs. Not very useful to troubleshoot...

upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

How will pretty pictures in QuickSight help with troubleshooting? upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

But without Athena, there is nothing you can visualize in QuickSight. upvoted 1 times

😑 💄 NickGordon 7 months ago

Selected Answer: D

Quick Sight is an analytics tool. Sounds like a LEAST effort option upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Athena allows you to run SQL queries on data in Amazon S3, including CloudTrail logs. It is the easiest way to query the logs and identify specific errors without needing to write any custom code or scripts.

With Athena, you can write simple SQL queries to filter the CloudTrail logs for the "AccessDenied" and "UnauthorizedOperation" error codes. This will return the relevant log entries that you can then analyze.

upvoted 3 times

😑 🌲 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: C

C for me. Using Athena with CloudTrail logs is a powerful way to enhance your analysis of AWS service activity. For example, you can use queries to identify trends and further isolate activity by attributes, such as source IP address or user.

https://docs.aws.amazon.com/athena/latest/ug/cloudtrail-logs.html#:~:text=CloudTrail%20Lake%20documentation.-,Using%20Athena,-with%20CloudTrail%20logs

upvoted 1 times

😑 💄 james2033 11 months ago

Selected Answer: C

IAM and CloudTrail https://docs.aws.amazon.com/IAM/latest/UserGuide/cloudtrail-integration.html#stscloudtrailexample-assumerole . Query CloudTrail logs by Athena https://docs.aws.amazon.com/athena/latest/ug/cloudtrail-logs.html#tips-for-querying-cloudtrail-logs#tips-forquerying-cloudtrail-logs

upvoted 1 times

😑 💄 james2033 11 months ago

Choose C, not D, because need "analyze and troubleshoot", not just see on dashboard (in D). upvoted 1 times

😑 💄 live_reply_developers 11 months ago

Selected Answer: C

Amazon Athena is an interactive query service provided by AWS that enables you to analyze data , is a little bit more suitable integrated with clouc trail that permit to verify WHO accessed the service.

upvoted 1 times

😑 上 manuh 11 months, 2 weeks ago

Selected Answer: C

Dashboard isnt requires. Also refer to this https://repost.aws/knowledge-center/troubleshoot-iam-permission-errors upvoted 1 times

😑 💄 haoAWS 11 months, 3 weeks ago

Selected Answer: D

I am struggling for the C and D for a long time, and ask the chatGPT. The chatGPT says D is better, since Athena requires more expertise on SQL. upvoted 1 times

😑 💄 antropaws 11 months, 3 weeks ago

Selected Answer: D

Both C and D are feasible. I vote for D:

Amazon QuickSight supports logging the following actions as events in CloudTrail log files:

- Whether the request was made with root or AWS Identity and Access Management user credentials
- Whether the request was made with temporary security credentials for an IAM role or federated user
- Whether the request was made by another AWS service

https://docs.aws.amazon.com/quicksight/latest/user/logging-using-cloudtrail.html upvoted 1 times

E 🌢 PCWu 12 months ago

Selected Answer: C

The Answer will be C: Need to use Athena to query keywords and sort out the error logs. D: No need to use Amazon QuickSight to create the dashboard. upvoted 1 times

🖃 🛔 Axeashes 12 months ago

Selected Answer: C

"Using Athena with CloudTrail logs is a powerful way to enhance your analysis of AWS service activity." https://docs.aws.amazon.com/athena/latest/ug/cloudtrail-logs.html upvoted 1 times

😑 🌡 oras2023 1 year ago

Selected Answer: C

Analyse and TROUBLESHOOT, look like Athena upvoted 1 times

😑 💄 oras2023 12 months ago

https://docs.aws.amazon.com/athena/latest/ug/cloudtrail-logs.html upvoted 1 times

😑 🏝 alexandercamachop 1 year ago

Selected Answer: D

It specifies analyze, not query logs. Which is why option D is the best one as it provides dashboards to analyze the logs. upvoted 3 times

A company wants to add its existing AWS usage cost to its operation cost dashboard. A solutions architect needs to recommend a solution that will give the company access to its usage cost programmatically. The company must be able to access cost data for the current year and forecast costs for the next 12 months.

Which solution will meet these requirements with the LEAST operational overhead?

A. Access usage cost-related data by using the AWS Cost Explorer API with pagination.

B. Access usage cost-related data by using downloadable AWS Cost Explorer report .csv files.

C. Configure AWS Budgets actions to send usage cost data to the company through FTP.

D. Create AWS Budgets reports for usage cost data. Send the data to the company through SMTP.

Correct Answer: D

Community vote distribution

A (100%)

😑 🏝 awsgeek75 5 months ago

Selected Answer: A

Programmatically + LEAST overhead = API upvoted 2 times

😑 🌲 TariqKipkemei 7 months ago

Selected Answer: A

access to its usage cost programmatically = AWS Cost Explorer API upvoted 2 times

😑 💄 thanhnv142 7 months, 3 weeks ago

A: correct
1. programatically = API
2. In the next 12 months = cost explorer upvoted 3 times

😑 🌲 BrijMohan08 9 months, 2 weeks ago

Selected Answer: A

Keyword 12 months, API Support https://docs.aws.amazon.com/cost-management/latest/userguide/ce-what-is.html upvoted 4 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

Access usage cost-related data by using the AWS Cost Explorer API with pagination upvoted 2 times

😑 🌲 wendaz 8 months ago

don't repeat the answer, it is useless... explain , okay? i have seen your replies many time just to copy the options.. it makes no sense... upvoted 6 times

😑 🌲 james2033 11 months ago

Selected Answer: A

AWS Cost Explorer API with paginated request: https://docs.aws.amazon.com/cost-management/latest/userguide/ce-api-best-practices.html#ce-api-best-practices-optimize-costs

upvoted 2 times

🖃 🌲 MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: A

From AWS Documentation*:

"You can view your costs and usage using the Cost Explorer user interface free of charge. You can also access your data programmatically using the Cost Explorer API. Each paginated API request incurs a charge of \$0.01. You can't disable Cost Explorer after you enable it." * Source:

https://docs.aws.amazon.com/cost-management/latest/userguide/ce-what-is.html

https://docs.aws.amazon.com/AWSJavaScriptSDK/v3/latest/clients/client-cost-explorer/interfaces/costexplorerpaginationconfiguration.html upvoted 4 times

😑 👗 alexandercamachop 1 year ago

Selected Answer: A

Answer is: A says dashboard = Cost Explorer, therefor C & D are eliminated. also says programmatically, means non manual intervention therefor API. upvoted 4 times

😑 🌡 oras2023 1 year ago

Selected Answer: A

least operational overhead = API access upvoted 3 times

😑 💄 oras2023 1 year ago

least operational overhead = API access upvoted 1 times

A solutions architect is reviewing the resilience of an application. The solutions architect notices that a database administrator recently failed over the application's Amazon Aurora PostgreSQL database writer instance as part of a scaling exercise. The failover resulted in 3 minutes of downtime for the application.

Which solution will reduce the downtime for scaling exercises with the LEAST operational overhead?

A. Create more Aurora PostgreSQL read replicas in the cluster to handle the load during failover.

B. Set up a secondary Aurora PostgreSQL cluster in the same AWS Region. During failover, update the application to use the secondary cluster's writer endpoint.

C. Create an Amazon ElastiCache for Memcached cluster to handle the load during failover.

D. Set up an Amazon RDS proxy for the database. Update the application to use the proxy endpoint.

Correct Answer: D		
Community vote distribution D (72%)	B (22%)	6%

😑 👗 alexandercamachop (Highly Voted 🖬) 1 year ago

Selected Answer: D

D is the correct answer.

It is talking about the write database. Not reader.

Amazon RDS proxy allows you to automatically route write request to the healthy writer, minimizing downtime.

upvoted 10 times

😑 🌲 nilandd44gg 10 months, 2 weeks ago

One of the benefits of Amazon RDS Proxy is that it can improve application recovery time after database failovers. While RDS Proxy supports both MySQL as well as PostgreSQL engines, in this post, we will use a MySQL test workload to demonstrate how RDS Proxy reduces client recovery time after failover by up to 79% for Amazon Aurora MySQL and by up to 32% for Amazon RDS for MySQL. https://aws.amazon.com/blogs/database/improving-application-availability-with-amazon-rds-proxy/ https://aws.amazon.com/rds/proxy/faqs/

upvoted 4 times

E & pentium75 Most Recent) 5 months, 1 week ago

Selected Answer: D

"RDS Proxy reduces client recovery time after failover by up to 79% for Amazon Aurora MySQL " https://aws.amazon.com/de/blogs/database/improving-application-availability-with-amazon-rds-proxy/ upvoted 1 times

😑 💄 ftaws 5 months, 3 weeks ago

Selected Answer: B

RDS Proxy is used for DB timeout not downtime. How to reduce downtime with RDS Proxy? There is no change downtime if we use RDS Proxy. upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

"How to reduce downtime with RDS Proxy", by eliminating the need for the application to retrieve the new DNS record after the old one times

out.

upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

"RDS Proxy reduces client recovery time after failover by up to 79% for Amazon Aurora MySQL " https://aws.amazon.com/de/blogs/database/improving-application-availability-with-amazon-rds-proxy/ upvoted 1 times

😑 🌲 Cyberkayu 5 months, 3 weeks ago

Selected Answer: B

they are using Aurora, RDS proxy dont work here Answer $\ensuremath{\mathsf{B}}$

upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Wrong: https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/rds-proxy.html upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

"RDS Proxy reduces client recovery time after failover by up to 79% for Amazon Aurora MySQL " https://aws.amazon.com/de/blogs/database/improving-application-availability-with-amazon-rds-proxy/ upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

D. Set up an Amazon RDS proxy for the database. Update the application to use the proxy endpoint. upvoted 2 times

😑 🎍 hachiri 9 months, 4 weeks ago

point is Aurora Multi-Master Set up a secondary Aurora PostgreSQL cluster in the *same* AWS Region upvoted 2 times

😑 💄 hachiri 9 months, 4 weeks ago

I mean correct is B upvoted 1 times

😑 💄 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: C

Availability is the main requirement here. Even if RDS proxy is used, it will still find the writer instance unavailable during the scaling exercise. Best option is to create an Amazon ElastiCache for Memcached cluster to handle the load during the scaling operation. upvoted 1 times

😑 🌲 wizcloudifa 1 month, 1 week ago

that will only account for the read operation part of it, we are concerned with the write operations here upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"RDS Proxy reduces client recovery time after failover by up to 79% for Amazon Aurora MySQL " https://aws.amazon.com/de/blogs/database/improving-application-availability-with-amazon-rds-proxy/ upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Failover is faster with RDS proxy upvoted 1 times

😑 🌲 AshishRocks 1 year ago

Set up an Amazon RDS proxy for the database. Update the application to use the proxy endpoint. D is the answer upvoted 3 times

A company has a regional subscription-based streaming service that runs in a single AWS Region. The architecture consists of web servers and application servers on Amazon EC2 instances. The EC2 instances are in Auto Scaling groups behind Elastic Load Balancers. The architecture includes an Amazon Aurora global database cluster that extends across multiple Availability Zones.

The company wants to expand globally and to ensure that its application has minimal downtime.

Which solution will provide the MOST fault tolerance?

A. Extend the Auto Scaling groups for the web tier and the application tier to deploy instances in Availability Zones in a second Region. Use an Aurora global database to deploy the database in the primary Region and the second Region. Use Amazon Route 53 health checks with a failover routing policy to the second Region.

B. Deploy the web tier and the application tier to a second Region. Add an Aurora PostgreSQL cross-Region Aurora Replica in the second Region. Use Amazon Route 53 health checks with a failover routing policy to the second Region. Promote the secondary to primary as needed.

C. Deploy the web tier and the application tier to a second Region. Create an Aurora PostgreSQL database in the second Region. Use AWS Database Migration Service (AWS DMS) to replicate the primary database to the second Region. Use Amazon Route 53 health checks with a failover routing policy to the second Region.

D. Deploy the web tier and the application tier to a second Region. Use an Amazon Aurora global database to deploy the database in the primary Region and the second Region. Use Amazon Route 53 health checks with a failover routing policy to the second Region. Promote the secondary to primary as needed.

Correct Answer: B			
Community vote distribution			
	D (94%)	3%	

😑 👗 TariqKipkemei (Highly Voted 🖬) 10 months, 3 weeks ago

Selected Answer: D

Auto Scaling groups can span Availability Zones, but not AWS regions.

Hence the best option is to deploy the web tier and the application tier to a second Region. Use an Amazon Aurora global database to deploy the database in the primary Region and the second Region. Use Amazon Route 53 health checks with a failover routing policy to the second Region. Promote the secondary to primary as needed.

upvoted 17 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: D

A: Not possible for autoscaling across regionsBC: Using PostgreSQL, not sure why?D: MOST fault tolerant != MOST scalable. This gives least downtime.upvoted 3 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: D

EC2 Auto Scaling groups are regional constructs. They can span Availability Zones, but not AWS regions upvoted 2 times

😑 🌲 thanhnv142 7 months, 3 weeks ago

527:

D is correct:

- B & C is not correct because it mentions Aurora PostgreSQL which is not mentioned in the question
- A is not correct because Auto scaling group can not span regions upvoted 3 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

Simple as that.

upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Using an Aurora global database that spans both the primary and secondary regions provides automatic replication and failover capabilities for the database tier.

Deploying the web and application tiers to a second region provides fault tolerance for those components.

Using Route53 health checks and failover routing will route traffic to the secondary region if the primary region becomes unavailable.

This provides fault tolerance across all tiers of the architecture while minimizing downtime. Promoting the secondary database to primary ensures 4 the second region can continue operating if needed.

A is close, but doesn't provide an automatic database failover capability.

B and C provide database replication, but not automatic failover.

So D is the most comprehensive and fault tolerant architecture.

upvoted 3 times

😑 💄 Zox42 11 months, 1 week ago

Selected Answer: D

Answer D upvoted 1 times

😑 🛔 Zuit 11 months, 2 weeks ago

Selected Answer: D

D seems fitting: Global Databbase and deploying it in the new region upvoted 1 times

😑 🌲 MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: B

B is correct! upvoted 1 times

😑 💄 manuh 11 months, 2 weeks ago

Replicated db doesnt mean they will act as a single db once the transfer is completed. Global db is the correct approach upvoted 2 times

😑 🏝 r3mo 1 year ago

"D" is the answer: because Aws Aurora Global Database allows you to read and write from any region in the global cluster. This enables you to distribute read and write workloads globally, improving performance and reducing latency. Data is replicated synchronously across regions, ensuring strong consistency.

upvoted 3 times

😑 🌡 Henrytml 1 year ago

Selected Answer: A

A is the only answer remain using ELB, both Web/App/DB has been taking care with replicating in 2nd region, lastly route 53 for failover over multiple regions

upvoted 1 times

😑 🌲 Henrytml 12 months ago

i will revoke my answer to standby web in 2nd region, instead of trigger to scale out upvoted 1 times

😑 🌲 manuh 11 months, 2 weeks ago

also Asg cant span beyond a region upvoted 1 times

😑 上 alexandercamachop 1 year ago

Selected Answer: D

B&C are discarted.

The answer is between A and D.

I would go with D because it explicitley created this web / app tier in second region, instead A just autoscales into a secondary region, rather then always having resources in this second region.

upvoted 3 times

The company wants the AWS solution to process incoming data files as soon as possible with minimal changes to the FTP clients that send the files. The solution must delete the incoming data files after the files have been processed successfully. Processing for each file needs to take 3-8 minutes.

Which solution will meet these requirements in the MOST operationally efficient way?

A. Use an Amazon EC2 instance that runs an FTP server to store incoming files as objects in Amazon S3 Glacier Flexible Retrieval. Configure a job queue in AWS Batch. Use Amazon EventBridge rules to invoke the job to process the objects nightly from S3 Glacier Flexible Retrieval. Delete the objects after the job has processed the objects.

B. Use an Amazon EC2 instance that runs an FTP server to store incoming files on an Amazon Elastic Block Store (Amazon EBS) volume. Configure a job queue in AWS Batch. Use Amazon EventBridge rules to invoke the job to process the files nightly from the EBS volume. Delete the files after the job has processed the files.

C. Use AWS Transfer Family to create an FTP server to store incoming files on an Amazon Elastic Block Store (Amazon EBS) volume. Configure a job queue in AWS Batch. Use an Amazon S3 event notification when each file arrives to invoke the job in AWS Batch. Delete the files after the job has processed the files.

D. Use AWS Transfer Family to create an FTP server to store incoming files in Amazon S3 Standard. Create an AWS Lambda function to process the files and to delete the files after they are processed. Use an S3 event notification to invoke the Lambda function when the files arrive.

Correct Answer: B			
Community vote distribution	D (93%)	7%	

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: D

Obviously we choose AWS Transfer Family over hosting the FTP server ourselves on an EC2 instance. And "process incoming data files as soon as possible" -> trigger Lambda when files arrive. Lambda functions can run up to 15 minutes, it takes "3-8 minutes" per file -> works.

AWS Batch just schedules jobs, but these still need to run somewhere (Lambda, Fargate, EC2). upvoted 3 times

😑 🌲 wizcloudifa 1 month, 1 week ago

well if you opt for unmanaged compute option in AWS Batch in that case you dont have to worry about the compute, AWS batch automatically provisions it for you

upvoted 1 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

FTP => AWS Transfer Family, => C or D, but in C is used EBS not S3 which needs EC2 and in general is more complex => very clear D. upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

The key points:

Use AWS Transfer Family for the FTP server to receive files directly into S3. This avoids managing FTP servers. Process each file as soon as it arrives using Lambda triggered by S3 events. Lambda provides fast processing time per file. Lambda can also delete files after processing succeeds.

Options A, B, C involve more operational overhead of managing FTP servers and batch jobs. Processing latency would be higher waiting for batch windows.

Storing files in Glacier (Option A) adds latency for retrieving files. upvoted 1 times

□ ▲ hsinchang 10 months, 3 weeks ago

Selected Answer: D

Processing for each file needs to take 3-8 minutes clearly indicates Lambda functions. upvoted 1 times

😑 🌡 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: D

Process incoming data files with minimal changes to the FTP clients that send the files = AWS Transfer Family. Process incoming data files as soon as possible = S3 event notification. Processing for each file needs to take 3-8 minutes = AWS Lambda function. Delete file after processing = AWS Lambda function.

upvoted 3 times

😑 💄 antropaws 11 months, 3 weeks ago

Selected Answer: D

Most likely D. upvoted 1 times

😑 💄 r3mo 1 year ago

"D" Since each file takes 3-8 minutes to process the lambda function can process the data file whitout a problem. upvoted 1 times

😑 🏝 maver144 1 year ago

Selected Answer: D

You cannot setup AWS Transfer Family to save files into EBS. upvoted 3 times

😑 👗 oras2023 12 months ago

https://aws.amazon.com/aws-transfer-family/ upvoted 1 times

😑 💄 secdgs 1 year ago

Selected Answer: D

D. Because

1. process immediate when file transfer to S3 not wait for process several file in one time.

2. takes 3-8 can use Lamda.

C. Wrong because AWS Batch is use for run large-scale or large amount of data in one time. upvoted 1 times

😑 🏝 Aymanovitchy 1 year ago

To meet the requirements of processing incoming data files as soon as possible with minimal changes to the FTP clients, and deleting the files afte successful processing, the most operationally efficient solution would be:

D. Use AWS Transfer Family to create an FTP server to store incoming files in Amazon S3 Standard. Create an AWS Lambda function to process the files and delete them after processing. Use an S3 event notification to invoke the Lambda function when the files arrive. upvoted 1 times

😑 🌲 bajwa360 1 year ago

Selected Answer: D

It should be D as lambda is more operationally viable solution given the fact each processing takes 3-8 minutes that lambda can handle upvoted 1 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: C

Answer has to be between C or D. Because Transfer Family is obvious do to FTP. Now i would go with C because it uses AWS Batch, which makes more sense for Batch processing rather then AWS Lambda. upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Why? "Process incoming data files as soon as possible", by triggering the Lambda function when files arrive. Batch is for scheduled jobs. upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Also Batch just triggers jobs, they still need to run somewhere (like in Lambda). upvoted 1 times

😑 🆀 Bill1000 1 year ago

I am between C and D. My reason is:

"The company wants the AWS solution to process incoming data files as soon as possible with minimal changes to the FTP clients that send the files."

upvoted 3 times

Which solution will meet these requirements?

- A. Migrate the databases to Amazon EC2. Use an AWS Key Management Service (AWS KMS) AWS managed key for encryption.
- B. Migrate the databases to Amazon RDS Configure encryption at rest.
- C. Migrate the data to Amazon S3 Use Amazon Macie for data security and protection
- D. Migrate the database to Amazon RDS. Use Amazon CloudWatch Logs for data security and protection.

Correct Answer: A

Community vote distribution

B (100%)

😑 🛔 AshishRocks (Highly Voted 🖬) 1 year ago

B is the answer

Why not C - Option C suggests migrating the data to Amazon S3 and using Amazon Macie for data security and protection. While Amazon Macie provides advanced security features for data in S3, it may not be directly applicable or optimized for databases, especially for transactional and sensitive data. Amazon RDS provides a more suitable environment for managing databases. upvoted 10 times

😑 🆀 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: B

A: Operational overhead of EC2 and whatever DB is running on it

C: Macie is not for data security, it's for identifying PII and sensitive data

D: CloudWatch is for cloud events and does not secure databases

B: RDS is managed so least operational overhead. Encryption at rest means security upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Migrate the databases to Amazon RDS Configure encryption at rest. upvoted 3 times

😑 🌲 wendaz 8 months ago

down voted. upvoted 1 times

😑 🌲 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: B

Reduce Ops = Migrate the databases to Amazon RDS Configure encryption at rest upvoted 3 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: B

B for sure.

First the correct is Amazon RDS, then encryption at rest makes the database secure.

upvoted 3 times

😑 💄 oras2023 1 year ago

Selected Answer: B

B. Migrate the databases to Amazon RDS Configure encryption at rest. Looks like best option upvoted 4 times A company has an online gaming application that has TCP and UDP multiplayer gaming capabilities. The company uses Amazon Route 53 to point the application traffic to multiple Network Load Balancers (NLBs) in different AWS Regions. The company needs to improve application performance and decrease latency for the online game in preparation for user growth.

Which solution will meet these requirements?

A. Add an Amazon CloudFront distribution in front of the NLBs. Increase the Cache-Control max-age parameter.

B. Replace the NLBs with Application Load Balancers (ALBs). Configure Route 53 to use latency-based routing.

C. Add AWS Global Accelerator in front of the NLBs. Configure a Global Accelerator endpoint to use the correct listener ports.

D. Add an Amazon API Gateway endpoint behind the NLBs. Enable API caching. Override method caching for the different stages.

Correct Answer: D

Community vote distribution

C (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: C

A: CloudFront is for caching. Not required B: ALB is for HTTP layer, won't help with TCP UDP issues D: API Gateway, API Caching total rubbish, ignore this option C: Is correct as Global Accelerator uses unicast for reducing latency globbally. upvoted 1 times

😑 📥 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

The key considerations are:

The application uses TCP and UDP for multiplayer gaming, so Network Load Balancers (NLBs) are appropriate.

AWS Global Accelerator can be added in front of the NLBs to improve performance and reduce latency by intelligently routing traffic across AWS Regions and Availability Zones.

Global Accelerator provides static anycast IP addresses that act as a fixed entry point to application endpoints in the optimal AWS location. This improves availability and reduces latency.

The Global Accelerator endpoint can be configured with the correct NLB listener ports for TCP and UDP.

upvoted 4 times

😑 👗 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: C

TCP, UDP, Gaming = global accelerator and Network Load Balancer upvoted 4 times

😑 🆀 Henrytml 12 months ago

Selected Answer: C

only b and c handle TCP/UDP, and C comes with accelerator to enhance performance upvoted 1 times

😑 🌡 manuh 11 months, 2 weeks ago

Does alb handle udp? Can u share a source? upvoted 1 times

alexandercamachop 1 year ago

Selected Answer: C

UDP and TCP is AWS Global accelarator as it works in the Transportation layer. Now this with NLB is perfect. upvoted 2 times

😑 💄 oras2023 1 year ago

Selected Answer: C

C is helping to reduce latency for end clients upvoted 2 times

Which solution will meet these requirements with the MOST operational efficiency?

A. Create a function URL for the Lambda function. Provide the Lambda function URL to the third party for the webhook.

B. Deploy an Application Load Balancer (ALB) in front of the Lambda function. Provide the ALB URL to the third party for the webhook.

C. Create an Amazon Simple Notification Service (Amazon SNS) topic. Attach the topic to the Lambda function. Provide the public hostname of the SNS topic to the third party for the webhook.

D. Create an Amazon Simple Queue Service (Amazon SQS) queue. Attach the queue to the Lambda function. Provide the public hostname of the SQS queue to the third party for the webhook.

Correct Answer: *B*

Community vote distribution

A (100%)

😑 👗 TariqKipkemei (Highly Voted 🖬) 10 months, 3 weeks ago

Selected Answer: A

A function URL is a dedicated HTTP(S) endpoint for your Lambda function. When you create a function URL, Lambda automatically generates a unique URL endpoint for you.

upvoted 8 times

😑 🌲 awsgeek75 Most Recent 🕐 5 months ago

Selected Answer: A

Apart from simplest and most operational, I think A is the only option that will work! BCD cannot even be implemented in real world imho. Happy to be corrected upvoted 2 times

😑 🛔 Orit 6 months, 3 weeks ago

B is the answerThe best solution to make the Lambda function available for the third party to call with the MOST operational efficiency is to deploy an Application Load Balancer (ALB) in front of the Lambda function and provide the ALB URL to the third party for the webhook. This solution is th most efficient because it allows the third party to call the Lambda function without having to worry about managing the Lambda function's availability or scaling. The ALB will automatically distribute traffic across multiple Lambda functions, if necessary, and will also provide redundancy in case of a failure.

upvoted 1 times

😑 🌡 hro 2 months ago

I believe you are correct. Lambda functions as targets - implementing ALBs https://docs.aws.amazon.com/elasticloadbalancing/latest/application/lambda-functions.html upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A The key points:

A Lambda function needs to be invoked by a third party via a webhook.

Using a function URL provides a direct invoke endpoint for the Lambda function. This is simple and efficient.

Options B, C, and D insert unnecessary components like ALB, SNS, SQS between the webhook and the Lambda function. These add complexity without benefit.

A function URL can be generated and provided to the third party quickly without additional infrastructure.

upvoted 4 times

😑 🌲 james2033 10 months, 4 weeks ago

Selected Answer: A

Keyword "Lambda function" and "webhook". See https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-saas-furls.html#create-stripe-cfn-stack

upvoted 4 times

😑 💄 Abrar2022 12 months ago

Selected Answer: A

key word: Lambda function URLs

upvoted 2 times

😑 🌡 maver144 1 year ago

Selected Answer: A

https://docs.aws.amazon.com/lambda/latest/dg/lambda-urls.html upvoted 1 times

😑 🌡 jkhan2405 1 year ago

Selected Answer: A

It's A

upvoted 1 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: A

A would seem like the correct one but not sure. upvoted 1 times

Which combination of steps will meet these requirements with the MOST operational efficiency? (Choose three.)

A. Register the required domain in a registrar. Create a wildcard custom domain name in a Route 53 hosted zone and record in the zone that points to the API Gateway endpoint.

B. Request a wildcard certificate that matches the domains in AWS Certificate Manager (ACM) in a different Region.

C. Create hosted zones for each customer as required in Route 53. Create zone records that point to the API Gateway endpoint.

D. Request a wildcard certificate that matches the custom domain name in AWS Certificate Manager (ACM) in the same Region.

E. Create multiple API endpoints for each customer in API Gateway.

F. Create a custom domain name in API Gateway for the REST API. Import the certificate from AWS Certificate Manager (ACM).

Correct Answer: CFD

Community vote distribution

ADF (100%)

😑 🌲 AshishRocks (Highly Voted 🖬) 12 months ago

Step A involves registering the required domain in a registrar and creating a wildcard custom domain name in a Route 53 hosted zone. This allows you to map individual and secure URLs for all customers to your API Gateway endpoints.

Step D is to request a wildcard certificate from AWS Certificate Manager (ACM) that matches the custom domain name you created in Step A. This wildcard certificate will cover all subdomains and ensure secure HTTPS communication.

Step F is to create a custom domain name in API Gateway for your REST API. This allows you to associate the custom domain name with your API Gateway endpoints and import the certificate from ACM for secure communication. upvoted 6 times

😑 🛔 Guru4Cloud (Highly Voted 🐽) 9 months, 3 weeks ago

Selected Answer: ADF The key points:

Using a wildcard domain and certificate avoids managing individual domains/certs per customer. This is more efficient. The domain, hosted zone, and certificate should all be in the same region as the API Gateway REST API for simplicity. Creating multiple API endpoints per customer (Option E) adds complexity and is not required. Option B and C add unnecessary complexity by separating domains, certificates, and hosted zones. upvoted 6 times

□ ▲ awsgeek75 Most Recent ② 4 months, 3 weeks ago

ADF looks right but not sure why C is wrong:

https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-to-api-gateway.html#routing-to-api-gateway-config upvoted 1 times

😑 🌲 ukivanlamlpi 10 months, 2 weeks ago

Selected Answer: ADF

https://docs.aws.amazon.com/apigateway/latest/developerguide/how-to-custom-domains.html

https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/AboutHZWorkingWith.html upvoted 2 times

😑 🌲 jaydesai8 11 months, 1 week ago

Selected Answer: ADF

ADF - makes sense upvoted 2 times

😑 🌲 jkhan2405 1 year ago

Selected Answer: ADF

It's ADF upvoted 2 times

🖯 💄 MAMADOUG 1 year ago

For me AFD

upvoted 2 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: ADF

ADF - One to create the custom domain in Route 53 (Amazon DNS) Second to request wildcard certificate from ADM Thirds to import the certificate from ACM. upvoted 2 times

😑 🌡 AncaZalog 1 year ago

is ADF upvoted 1 times

A company stores data in Amazon S3. According to regulations, the data must not contain personally identifiable information (PII). The company recently discovered that S3 buckets have some objects that contain PII. The company needs to automatically detect PII in S3 buckets and to notify the company's security team.

Which solution will meet these requirements?

A. Use Amazon Macie. Create an Amazon EventBridge rule to filter the SensitiveData event type from Macie findings and to send an Amazon Simple Notification Service (Amazon SNS) notification to the security team.

B. Use Amazon GuardDuty. Create an Amazon EventBridge rule to filter the CRITICAL event type from GuardDuty findings and to send an Amazon Simple Notification Service (Amazon SNS) notification to the security team.

C. Use Amazon Macie. Create an Amazon EventBridge rule to filter the SensitiveData:S3Object/Personal event type from Macie findings and to send an Amazon Simple Queue Service (Amazon SQS) notification to the security team.

D. Use Amazon GuardDuty. Create an Amazon EventBridge rule to filter the CRITICAL event type from GuardDuty findings and to send an Amazon Simple Queue Service (Amazon SQS) notification to the security team.

Correct Answer: C

Community vote distribution

A (83%)

C (17%)

😑 👗 alexandercamachop (Highly Voted 🖬) 1 year ago

Selected Answer: A

B and D are discarted as Macie is to identify PII.

Now that we have between A and C.

SNS is more suitable for this option as a pub/sub service, we subscribe the security team and then they will receive the notifications. upvoted 13 times

😑 👗 awsgeek75 Most Recent 🕗 5 months ago

Selected Answer: A

BD: Wrong products

AC: Uses Macie which is the right product but C uses SQS to notify security team which is an incomplete solution (what's listening to SQS?) upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: A

Detect PII -> Macie, A or C Notify security team -> SNS, A or B upvoted 3 times

😑 🌡 potomac 7 months, 1 week ago

Selected Answer: A C is SQS, not SNS upvoted 3 times

E & Wayne23Fang 9 months, 2 weeks ago

SQS mentioned in C.

upvoted 1 times

😑 💄 Ale1973 10 months, 1 week ago

Selected Answer: A

Amazon SQS is typically used for decoupling and managing messages between distributed application components. It's not typically used for sending notifications directly to humans. On my opinion C isn't a best practice upvoted 1 times

😑 👗 Kp88 10 months, 2 weeks ago

Those who say C , please read carefully (I made the same mistake lol). Teams can't be notified with SQS hence A. upvoted 2 times

😑 🌲 ukivanlamlpi 10 months, 2 weeks ago

Selected Answer: C

there are different type of sensitive data: https://docs.aws.amazon.com/macie/latest/user/findings-types.html. if the question only focus on PII, then C is the answer. however, in reality, you will use A, because you will not want bank card, credential...etc all sensitive data , not only PII

upvoted 3 times

😑 🌲 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: A

Automatically detect PII in S3 buckets = Amazon Macie Notify security team = Amazon SNS Trigger notification based on SensitiveData event type from Macie findings = EventBridge upvoted 1 times

😑 🏝 NASHDBA 11 months, 1 week ago

Selected Answer: C

There are different types of Sensitive Data. Here we are only referring to PII. Hence SensitiveData:S3Object/Personal. to use SNS, the security team must subscribe. SQS sends the information as designed

upvoted 1 times

😑 上 narddrer 11 months, 1 week ago

Selected Answer: C

SensitiveData:S3Object/Personal upvoted 1 times

😑 🌲 jaydesai8 11 months, 1 week ago

Selected Answer: A

Sensitive = MACIE, and SNS to sent notification to the Security Team upvoted 2 times

😑 👗 Iragmt 11 months, 1 week ago

C. Because the question mentioned PII only, there are other Sensitive Data aside from PII.

reference: https://docs.aws.amazon.com/macie/latest/user/findings-publish-event-schemas.html look for Event example for a sensitive data finding upvoted 2 times

😑 🏝 Ale1973 10 months, 1 week ago

But Amazon SQS is typically used for decoupling and managing messages between distributed application components. It's not typically used for sending notifications directly to humans!

upvoted 2 times

😑 🌲 kapit 11 months, 3 weeks ago

AAAAAAA upvoted 1 times

😑 🌡 jack79 12 months ago

C https://docs.aws.amazon.com/macie/latest/user/findings-types.html

and notice the ensitiveData:S3Object/Personal

The object contains personally identifiable information (such as mailing addresses or driver's license identification numbers), personal health information (such as health insurance or medical identification numbers), or a combination of the two.

upvoted 3 times

😑 📥 Ale1973 10 months, 1 week ago

But Amazon SQS is typically used for decoupling and managing messages between distributed application components. It's not typically used for sending notifications directly to humans!

upvoted 1 times

😑 🌲 MAMADOUG 1 year ago

I vote for A, Sensitive = MACIE, and SNS to prevent Security Team upvoted 3 times

A company wants to build a logging solution for its multiple AWS accounts. The company currently stores the logs from all accounts in a centralized account. The company has created an Amazon S3 bucket in the centralized account to store the VPC flow logs and AWS CloudTrail logs. All logs must be highly available for 30 days for frequent analysis, retained for an additional 60 days for backup purposes, and deleted 90 days after creation.

Which solution will meet these requirements MOST cost-effectively?

A. Transition objects to the S3 Standard storage class 30 days after creation. Write an expiration action that directs Amazon S3 to delete objects after 90 days.

B. Transition objects to the S3 Standard-Infrequent Access (S3 Standard-IA) storage class 30 days after creation. Move all objects to the S3 Glacier Flexible Retrieval storage class after 90 days. Write an expiration action that directs Amazon S3 to delete objects after 90 days.

C. Transition objects to the S3 Glacier Flexible Retrieval storage class 30 days after creation. Write an expiration action that directs Amazon S3 to delete objects after 90 days.

D. Transition objects to the S3 One Zone-Infrequent Access (S3 One Zone-IA) storage class 30 days after creation. Move all objects to the S3 Glacier Flexible Retrieval storage class after 90 days. Write an expiration action that directs Amazon S3 to delete objects after 90 days.

Correct Answer: *B*

Community vote distribution C (64%)

A (28%) 8%

😑 👗 alexandercamachop (Highly Voted 🖬) 1 year ago

Selected Answer: C

C seems the most sutiable. Is the lowest cost. After 30 days is backup only, doesn't specify frequent access. Therefor we must transition the items after 30 days to Glacier Flexible Retrieval.

Also it says deletion after 90 days, so all answers specifying a transition after 90 days makes no sense. upvoted 14 times

😑 🌲 MAMADOUG 1 year ago

Agree with you upvoted 2 times

😑 👗 deechean (Highly Voted 🖬) 9 months, 2 weeks ago

Selected Answer: A

The Glacier min storage duration is 90 days. All the options using Glacier are wrong. Only A is feasible. upvoted 7 times

😑 🌲 daniel33 8 months, 2 weeks ago

S3 Standard is priced at \$0.023 per GB for the first 50 TB stored per month

S3 Glacier Flexible Retrieval costs \$0.0036 per GB stored per month

If you move or delete data in Glacier within 90-days since their creation, you will pay an additional charge, that is called an early deletion fee. In US East you will pay \$0.004/GB if you have deleted 1 GB in 2 months, \$0.008/GB if you have deleted 1 GB in 1 month and \$0.012 if you have deleted 1 GB within 3 months.

Even with the early deletion fee, it appears to me that answer 'A' would still be cheaper. upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

But the objects are deleted after 90 days so how is this charge applicable? upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

But why 'transition to the S3 Standard storage class', aren't they there already by default? upvoted 3 times

□ ▲ awsgeek75 Most Recent ② 5 months ago

Selected Answer: C

C: Lowest cost

upvoted 1 times

😑 🌡 awsgeek75 5 months ago

A: Standard storage is default so this is wrong.

B: Looks wrong because it moves object to S3GFR after 90 days when they could just be deleted so extra cost

D: Same problem as B

upvoted 1 times

😑 🎍 pentium75 5 months, 1 week ago

Selected Answer: C

Not A: Objects are created in S3 Standard, so it doesn't make sense to 'transition' them there "30 days after creation" Not B or C: No need to "move all objects to the S3 Glacier Flexible Retrieval storage class after 90 days" because we want to delete, not archive, them. Even if we would delete them right after moving, we would pay 90 days minimum storage duration. Plus, we are using "Infrequent Access"

classes here, but we have no access at all.

upvoted 2 times

🖃 👗 ftaws 5 months, 3 weeks ago

Selected Answer: A

requirement : frequently analysis search cost : S3 STD 0.0004 vs IA 0.001 so IA is more expensive than STD(A) upvoted 1 times

🖃 📥 EdenWang 6 months, 4 weeks ago

Selected Answer: C

C is most cost-effective upvoted 2 times

🖃 📥 Hades2231 9 months, 2 weeks ago

Selected Answer: C

Things to note are: 30 days frequent access and 90 days after creation, so you only need to do 2 things, not 3. Objects in S3 will be stored by default for 30 days before you can move it to somewhere else, so C is the answer.

https://docs.aws.amazon.com/AmazonS3/latest/userguide/lifecycle-transition-general-considerations.html upvoted 2 times

😑 🆀 rjbihari 9 months, 3 weeks ago

C is the correct one.

As after 30 days it doesn't says about access / retrieval , only backup so move items after 30 days to Glacier Flexible Retrieval. And after it says deletion, so expiration action will ensure that the objects are deleted after 90 days, even if they are not accessed upvoted 1 times

🖃 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

I think - it is B

The first 30 days, the logs need to be highly available for frequent analysis. The S3 Standard storage class is the most expensive storage class, but i also provides the highest availability.

After 30 days, the logs still need to be retained for backup purposes, but they do not need to be accessed frequently. The S3 Standard-IA storage class is a good option for this, as it is less expensive than the S3 Standard storage class.

After 90 days, the logs can be moved to the S3 Glacier Flexible Retrieval storage class. This is the most cost-effective storage class for long-term archiving.

The expiration action will ensure that the objects are deleted after 90 days, even if they are not accessed

upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

"After 90 days, the logs can be moved to the S3 Glacier Flexible Retrieval storage class. This is the most cost-effective storage class for longterm archiving." yeah but we don't need long-term archiving, we want to delete them after 90 days. upvoted 2 times

😑 💄 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: C

C is the most cost effective solution.

upvoted 1 times

😑 💄 antropaws 11 months, 3 weeks ago

Selected Answer: C

C most likely. upvoted 1 times

😑 🏝 y0eri 12 months ago

Selected Answer: A

Question says "All logs must be highly available for 30 days for frequent analysis" I think the answer is A. Glacier is not made for frequent access. upvoted 2 times

😑 🎩 y0eri 12 months ago

I take that back. Moderator, please delete my comment. upvoted 4 times

😑 🌡 KMohsoe 1 year ago

Selected Answer: B

upvoted 1 times

Which solution will meet these requirements?

A. Create a new AWS Key Management Service (AWS KMS) key. Use AWS Secrets Manager to manage, rotate, and store all secrets in Amazon EKS.

B. Create a new AWS Key Management Service (AWS KMS) key. Enable Amazon EKS KMS secrets encryption on the Amazon EKS cluster.

C. Create the Amazon EKS cluster with default options. Use the Amazon Elastic Block Store (Amazon EBS) Container Storage Interface (CSI) driver as an add-on.

D. Create a new AWS Key Management Service (AWS KMS) key with the alias/aws/ebs alias. Enable default Amazon Elastic Block Store (Amazon EBS) volume encryption for the account.

Correct Answer: D

Community vote distribution

B (95%)

5%

😑 🛔 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: B

B is the correct solution to meet the requirement of encrypting secrets in the etcd store for an Amazon EKS cluster.

The key points:

Create a new KMS key to use for encryption.

Enable EKS secrets encryption using that KMS key on the EKS cluster. This will encrypt secrets in the Kubernetes etcd store.

Option A uses Secrets Manager which does not encrypt the etcd store.

Option C uses EBS CSI which is unrelated to etcd encryption.

Option D enables EBS encryption but does not address etcd encryption.

upvoted 6 times

😑 👗 TariqKipkemei (Most Recent 🕗) 10 months, 3 weeks ago

Selected Answer: B

EKS supports using AWS KMS keys to provide envelope encryption of Kubernetes secrets stored in EKS. Envelope encryption adds an addition, customer-managed layer of encryption for application secrets or user data that is stored within a Kubernetes cluster.

https://eksctl.io/usage/kms-encryption/

upvoted 4 times

😑 💄 manuh 11 months, 2 weeks ago

Selected Answer: A

Why not a upvoted 1 times

E & TarigKipkemei 10 months, 3 weeks ago

option A does not enable Amazon EKS KMS secrets encryption on the Amazon EKS cluster upvoted 1 times

😑 🌲 MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: B

B is the right option. https://docs.aws.amazon.com/eks/latest/userguide/enable-kms.html upvoted 4 times

😑 📥 alexandercamachop 1 year ago

Selected Answer: B

It is B, because we need to encrypt inside of the EKS cluster, not outside. AWS KMS is to encrypt at rest. upvoted 4 times

😑 🌲 AncaZalog 1 year ago

is B, not D upvoted 2 times

A company wants to provide data scientists with near real-time read-only access to the company's production Amazon RDS for PostgreSQL database. The database is currently configured as a Single-AZ database. The data scientists use complex queries that will not affect the production database. The company needs a solution that is highly available.

Which solution will meet these requirements MOST cost-effectively?

A. Scale the existing production database in a maintenance window to provide enough power for the data scientists.

B. Change the setup from a Single-AZ to a Multi-AZ instance deployment with a larger secondary standby instance. Provide the data scientists access to the secondary instance.

C. Change the setup from a Single-AZ to a Multi-AZ instance deployment. Provide two additional read replicas for the data scientists.

D. Change the setup from a Single-AZ to a Multi-AZ cluster deployment with two readable standby instances. Provide read endpoints to the data scientists.

Correct Answer: C

Community vote distribution

Other

😑 🌲 NASHDBA (Highly Voted 🖬) 11 months, 1 week ago

D (83%)

Selected Answer: D

Highly Available = Multi-AZ Cluster Read-only + Near Real time = readable standby. Read replicas are async whereas readable standby is synchronous. https://stackoverflow.com/questions/70663036/differences-b-w-aws-read-replica-and-the-standby-instances upvoted 20 times

😑 🌲 chickenmf 3 months ago

a Multi-AZ instance deployment is also highly available for a lower cost, no? upvoted 1 times

😑 💄 Smart 9 months, 3 weeks ago

This[^] is the reason. upvoted 2 times

😑 🌲 maver144 (Highly Voted 🖬 1 year ago

It's either C or D. To be honest, I find the newest questions to be ridiculously hard (roughly 500+). I agree with @alexandercamachop that Multi Az in Instance mode is cheaper than Cluster. However, with Cluster we have reader endpoint available to use out-of-box, so there is no need to provide read-replicas, which also has its own costs. The ridiculous part is that I'm pretty sure even the AWS support would have troubles to answer which configuration is MOST cost-effective.

upvoted 12 times

😑 🌲 maver144 1 year ago

Near real-time is clue for C, since read replicas are async, but still its not obvious question. upvoted 2 times

😑 🌲 manuh 11 months, 2 weeks ago

Absolutely true that 500+ questions are damn difficult to answer. I still dont know why is B incorrect. Shouldn't 1 extra be better than 2 ? upvoted 1 times

😑 🌲 cyber_bedouin 6 months, 1 week ago

they are not all hard, most are normal. its just this one and that one about EKS encryption control plane (earlier than this page). upvoted 2 times

😑 👗 osmk (Most Recent 🕐) 3 months, 3 weeks ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/multi-az-db-clusters-concepts.html upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: D

Not A - Not "highly available"

Not B - "Access to the secondary instance" is not possible in Multi-AZ

Not C - Multi-AZ + two (!) read replicas is more expensive than cluster

D - Provides "readable standby instances"

upvoted 2 times

E & SHAAHIBHUSHANAWS 6 months, 1 week ago

D

https://aws.amazon.com/about-aws/whats-new/2023/01/amazon-rds-multi-az-readable-standbys-rds-postgresql-inbound-replication/ upvoted 2 times

😑 💄 bogobob 6 months, 4 weeks ago

Selected Answer: D

https://aws.amazon.com/blogs/database/choose-the-right-amazon-rds-deployment-option-single-az-instance-multi-az-instance-or-multi-az-database-cluster/

C would mean you are paying for 4 instances (primary, backup, and 2 read instances). D would be 3 (primary, and 2 backup). Difficult to be sure, pricing calculator doesn't even include clusters yet.

upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Option D is the most cost-effective solution that meets the requirements for this scenario.

The key considerations are:

Data scientists need read-only access to near real-time production data without affecting performance. High availability is required. Cost should be minimized.

upvoted 1 times

😑 💄 ukivanlamlpi 10 months, 2 weeks ago

Selected Answer: D

https://aws.amazon.com/blogs/database/choose-the-right-amazon-rds-deployment-option-single-az-instance-multi-az-instance-or-multi-az-database-cluster/

only multi AZ cluster have reader endpoint. multi AZ instance secondary replicate is not allow to access upvoted 1 times

😑 💄 msdnpro 10 months, 3 weeks ago

Selected Answer: D

Support for D:

Amazon RDS now offers Multi-AZ deployments with readable standby instances (also called Multi-AZ DB cluster deployments) in preview. You should consider using Multi-AZ DB cluster deployments with two readable DB instances if you need additional read capacity in your Amazon RDS Multi-AZ deployment and if your application workload has strict transaction latency requirements such as single-digit milliseconds transactions.

https://aws.amazon.com/blogs/database/readable-standby-instances-in-amazon-rds-multi-az-deployments-a-new-high-availability-option/ upvoted 1 times

😑 🌲 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: D

Unlike Multi-AZ instance deployment, where the secondary instance can't be accessed for read or writes, Multi-AZ DB cluster deployment consists of primary instance running in one AZ serving read-write traffic and two other standby running in two different AZs serving read traffic. upvoted 2 times

E **Lingmt** 11 months, 1 week ago

Selected Answer: D

D. using Multi-AZ DB cluster deployments with two readable DB instances if you need additional read capacity in your Amazon RDS Multi-AZ deployment and if your application workload has strict transaction latency requirements such as single-digit milliseconds transactions. https://aws.amazon.com/blogs/database/readable-standby-instances-in-amazon-rds-multi-az-deployments-a-new-high-availability-option/

while on read replicas, Amazon RDS then uses the asynchronous replication method for the DB engine to update the read replica whenever there i

a change to the primary DB instance. https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_ReadRepl.html upvoted 1 times

😑 🌲 manuh 11 months, 2 weeks ago

Selected Answer: B

Why not b. Shouldnt it have less number of instances than both c and d? upvoted 2 times

😑 🌲 baba365 11 months ago

Complex queries on single db will affect performance of db upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

You can't 'access the secondary instance' as suggested by B upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

"The Multi-AZ instance is suitable for business/mission critical applications that require high availability with low RTO/RPO and resilience to availability zone outage. However, this high availability option isn't a scaling solution for read-only scenarios. You can't use a standby replica to serve read traffic. To serve read-only traffic, use a Multi-AZ DB cluster or a read replica instead." upvoted 1 times

😑 💄 baba365 11 months ago

Multi-AZ is about twice the price of Single-AZ. For example: db.t2.micro single - \$0.017/hour db.t2.micro multi - \$0.034/hour

option C: 1 primary + 1 standby + 2 replica = 4Db option D: 1 primary + 2 standby = 3Db

D. appears to be most cost effective upvoted 2 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

I think the best explanation I've read so far. upvoted 1 times

😑 💄 0628atv 11 months, 3 weeks ago

D:

https://aws.amazon.com/tw/blogs/database/readable-standby-instances-in-amazon-rds-multi-az-deployments-a-new-high-availability-option/upvoted 1 times

😑 💄 vrevkov 11 months, 3 weeks ago

Selected Answer: D

Forgot to vote upvoted 2 times

😑 🌲 vrevkov 11 months, 3 weeks ago

I think it's D. C: Multi-AZ instance = active + standby + two read replicas = 4 RDS instances D: Multi-AZ cluster = Active + two standby = 3 RDS instances

Single-AZ and Multi-AZ deployments: Pricing is billed per DB instance-hour consumed from the time a DB instance is launched until it is stopped or deleted.

https://aws.amazon.com/rds/postgresql/pricing/?pg=pr&loc=3 In the case of a cluster, you will pay less.

upvoted 2 times

E **Axeashes** 12 months ago

Selected Answer: D

Multi-AZ instance: the standby instance doesn't serve any read or write traffic.

Multi-AZ DB cluster: consists of primary instance running in one AZ serving read-write traffic and two other standby running in two different AZs serving read traffic.

https://aws.amazon.com/blogs/database/choose-the-right-amazon-rds-deployment-option-single-az-instance-multi-az-instance-or-multi-az-database-cluster/

upvoted 3 times

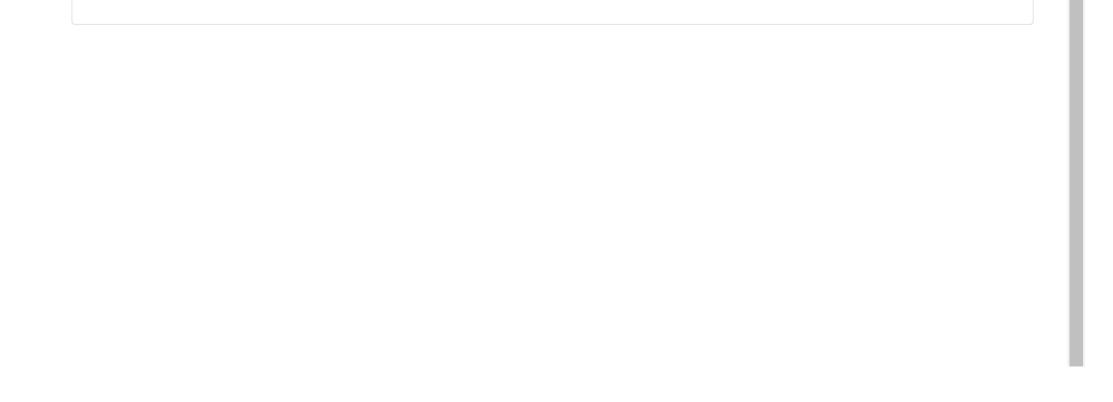
😑 🌲 oras2023 12 months ago

Selected Answer: C

It looks like another question about Multi-AZ cluster/instance deployment, but in this case we no need 40 sec failover so no reasons to look at cluster and buy more resources than we need.

We provide datascience team 2 read replica for their queries.

upvoted 1 times



Which solution will meet these requirements?

A. Migrate the MySQL database to Amazon RDS for MySQL with a Multi-AZ DB cluster deployment. Use Amazon ElastiCache for Redis with high availability to store session data and to cache reads. Migrate the web server to an Auto Scaling group that is in three Availability Zones.

B. Migrate the MySQL database to Amazon RDS for MySQL with a Multi-AZ DB cluster deployment. Use Amazon ElastiCache for Memcached with high availability to store session data and to cache reads. Migrate the web server to an Auto Scaling group that is in three Availability Zones.

C. Migrate the MySQL database to Amazon DynamoDB Use DynamoDB Accelerator (DAX) to cache reads. Store the session data in DynamoDB. Migrate the web server to an Auto Scaling group that is in three Availability Zones.

D. Migrate the MySQL database to Amazon RDS for MySQL in a single Availability Zone. Use Amazon ElastiCache for Redis with high availability to store session data and to cache reads. Migrate the web server to an Auto Scaling group that is in three Availability Zones.

Correct Answer: B Community vote distribution A (77%) B (23%)

😑 👗 alexandercamachop (Highly Voted 🖬) 1 year ago

Selected Answer: A

Memcached is best suited for caching data, while Redis is better for storing data that needs to be persisted. If you need to store data that needs to be accessed frequently, such as user profiles, session data, and application settings, then Redis is the better choice upvoted 15 times

😑 🌲 nonameforyou 11 months, 2 weeks ago

and for high availability, it's better than memcached upvoted 1 times

😑 🌲 nonameforyou 11 months, 2 weeks ago

but does rds multi-az provide the needed scalability? upvoted 2 times

😑 🌲 wsdasdasdqwdaw 7 months, 3 weeks ago

it is multi-az cluster deployment, same as B, so yes, it is providing the needed scalability. Great explanation. upvoted 1 times

😑 🌲 osmk (Most Recent 🕑 3 months, 3 weeks ago

Selected Answer: A

Replication: Redis supports creating multiple replicas for read scalability and high availability.https://aws.amazon.com/elasticache/redis-vs-memcached/

upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: A

A because of "Amazon EC2 web server that hosts user session states"

C: RDS to DynamoDB doesn't make total sense D: Single zone is not HA

Between A and B, A is suitable because of session state and Elasticache with Redis is more HA than option B upvoted 1 times

😑 🌲 mr123dd 5 months, 1 week ago

Selected Answer: A

B: from what I know, Memcached provide better performance and simplicity but lower availability than redis.C: mysql is relational database, dynamodb is nosqlD: single AZ

upvoted 1 times

😑 🎍 pentium75 5 months, 1 week ago

Selected Answer: A

ElastiCache for Redis supports HA, ElastiCache for Memcached does not: https://docs.aws.amazon.com/AmazonElastiCache/latest/mem-ug/SelectEngine.html

C could in theory work, but session data is typically stored in ElastiCache, not in DynamoDB.

D is not HA. upvoted 2 times

😑 📥 Cyberkayu 5 months, 3 weeks ago

Selected Answer: B

'hosts user session states' in question, thus redis upvoted 1 times

😑 🌡 pentium75 5 months, 1 week ago

Right, but Redis is A upvoted 1 times

😑 📥 potomac 7 months, 1 week ago

Selected Answer: A

Redis is a widely adopted in-memory data store for use as a database, cache, message broker, queue, session store, and leaderboard. https://aws.amazon.com/elasticache/redis/

upvoted 3 times

😑 🎍 thanhnv142 7 months, 3 weeks ago

B is correct.

We are left with 2 options: A and B. But it requires that the system be able to scale to meet future application capacity demands. Redis is very good But its drawback is not scalable. Thats why they implement memcached upvoted 1 times

😑 🆀 ErnShm 9 months ago

А

Redis as an in-memory data store with high availability and persistence is a popular choice among application developers to store and manage session data for internet-scale applications. Redis provides the sub-millisecond latency, scale, and resiliency required to manage session data such as user profiles, credentials, session state, and user-specific personalization.

upvoted 1 times

🖃 🎍 Gajendr 5 months, 2 weeks ago

Redis provides replication while memcached doesnt. upvoted 1 times

😑 📥 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

The key reasons why option A is preferable:

RDS Multi-AZ provides high availability for MySQL by synchronously replicating data across AZs. Automatic failover handles AZ outages. ElastiCache for Redis is better suited for session data caching than Memcached. Redis offers more advanced data structures and flexibility. Auto scaling across 3 AZs provides high availability for the web tier upvoted 1 times

😑 💄 ukivanlamlpi 10 months, 2 weeks ago

Selected Answer: B

the different between Redis and Memcache is that Memcache suuport multithread process to handle the increase of application traffic. https://aws.amazon.com/elasticache/redis-vs-memcached/

upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

ElastiCache for Memcached says "No" for "High Availability"

https://docs.aws.amazon.com/AmazonElastiCache/latest/mem-ug/SelectEngine.html upvoted 1 times

🖃 🌡 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: B

This requirement wins for me: "be able to scale to meet future application capacity demands". Memcached implements a multi-threaded architecture, it can make use of multiple processing cores. This means that you can handle more operations by scaling up compute capacity.

https://aws.amazon.com/elasticache/redis-vs-memcached/#:~:text=by%20their%20rank.-,Multithreaded%20architecture,-Since%20Memcached%20is

upvoted 1 times

😑 🌡 plndmns 11 months ago

cache reads is memcached right?

upvoted 1 times

😑 🆀 MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: B

B is correct! upvoted 3 times

😑 💄 AncaZalog 1 year ago

is A not B upvoted 4 times

Which solution will meet these requirements?

A. Add geographic restrictions to the content in CloudFront by using an allow list. Set up a custom error message.

- B. Set up a new URL tor restricted content. Authorize access by using a signed URL and cookies. Set up a custom error message.
- C. Encrypt the data for the content that the company distributes. Set up a custom error message.
- D. Create a new URL for restricted content. Set up a time-restricted access policy for signed URLs.

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: A

This question asks us to guess Netflix subscription model in 2 mins! lol!

BCD are impractical for geo restrictions as you cannot restrict URL by region and you cannot encrypt by geo region (country etc) upvoted 3 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: A

The CloudFront geographic restrictions feature lets you control distribution of your content at the country level for all files that you're distributing with a given web distribution.

https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/georestrictions.html upvoted 4 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

Add geographic restrictions to the content in CloudFront by using an allow list. Set up a custom error message upvoted 2 times

😑 上 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: A

Add geographic restrictions to the content in CloudFront by using an allow list. Set up a custom error message. upvoted 1 times

😑 L jaydesai8 11 months ago

Selected Answer: A

A makes sense - cloudfront has the capabilities of georestriction upvoted 1 times

😑 上 antropaws 11 months, 3 weeks ago

Selected Answer: A

Pretty sure it's A. upvoted 1 times

😑 🛔 alexandercamachop 1 year ago

Selected Answer: A

https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/georestrictions.html upvoted 4 times

😑 👗 AncaZalog 1 year ago

is B not A

upvoted 1 times

😑 💄 awsgeek75 4 months, 3 weeks ago

How is signed URL going to be geo restricted? Anyone with signed url can access the content on that url regardless of their location so B is wrong.

upvoted 1 times

😑 🛔 antropaws 11 months, 3 weeks ago

Why's that? upvoted 1 times

😑 🌲 manuh 11 months, 2 weeks ago

Signed url or cookies can be used for the banner country as well? upvoted 1 times

A company wants to use the AWS Cloud to improve its on-premises disaster recovery (DR) configuration. The company's core production business application uses Microsoft SQL Server Standard, which runs on a virtual machine (VM). The application has a recovery point objective (RPO) of 30 seconds or fewer and a recovery time objective (RTO) of 60 minutes. The DR solution needs to minimize costs wherever possible.

Which solution will meet these requirements?

A. Configure a multi-site active/active setup between the on-premises server and AWS by using Microsoft SQL Server Enterprise with Always On availability groups.

B. Configure a warm standby Amazon RDS for SQL Server database on AWS. Configure AWS Database Migration Service (AWS DMS) to use change data capture (CDC).

C. Use AWS Elastic Disaster Recovery configured to replicate disk changes to AWS as a pilot light.

D. Use third-party backup software to capture backups every night. Store a secondary set of backups in Amazon S3.

Correct Answer: D

Community vote distribution B (54%)

C (46%)

😑 💄 1Alpha1 (Highly Voted 🖬 4 months, 1 week ago

Selected Answer: B

Backup & Restore (RPO in hours, RTO in 24 hours or less) Pilot Light (RPO in minutes, RTO in hours) Warm Standby (RPO in seconds, RTO in minutes) *** Right Answer *** Active-Active (RPO is none or possibly seconds, RTO in seconds) upvoted 6 times

😑 🌲 1Alpha1 4 months, 1 week ago

https://disaster-recovery.workshop.aws/en/intro/disasterrecovery.html#:~:text=Pilot%20Light%20(RPO%20in%20minutes,that%20includes%20that%20critical%20core. upvoted 3 times

😑 📥 pentium75 (Highly Voted 🖝) 5 months, 1 week ago

Selected Answer: C

Not A - too expensive and not using AWS services

Not B - "RDS for SQL Server" does not support everything that "SQL Server Standard which runs on a VM" does; CDC supports even less (https://docs.aws.amazon.com/dms/latest/userguide/CHAP_Source.SQLServer.html). Also it would be more expensive than C. Not D - "Every night" would not meet the RPO requirement upvoted 5 times

😑 🌡 awsgeek75 5 months ago

Thanks I was confused between B and C. This makes perfect sense! upvoted 1 times

😑 🛔 abhiarns (Most Recent 🕐) 1 month, 4 weeks ago

Selected Answer: C

AWS DRS(AWS Elastic Disaster Recovery) enables RPOs of seconds and RTOs of minutes. upvoted 1 times

😑 🌲 osmk 3 months, 3 weeks ago

Selected Answer: B

https://docs.aws.amazon.com/whitepapers/latest/disaster-recovery-workloads-on-aws/disaster-recovery-options-in-the-cloud.html#warm-standbupyoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: C

A: Not possible

B: With RDS it means your failover will launch a different database engine. This is wrong in general

D: No comments

C: It is a disk based replication so it will be similar DB server and this is the product managed by AWS for the DR of on-prem setups.

https://aws.amazon.com/blogs/modernizing-with-aws/how-to-set-up-disaster-recovery-for-sql-server-always-on-availability-groups-using-awselastic-disaster-recovery/

upvoted 1 times

😑 💄 **1rob** 6 months, 2 weeks ago

Selected Answer: C

AWS Elastic Disaster Recovery

If you are considering the pilot light or warm standby strategy for disaster recovery, AWS Elastic Disaster Recovery could provide an alternative approach with improved benefits. Elastic Disaster Recovery can offer an RPO and RTO target similar to warm standby, but maintain the low-cost approach of pilot light

From <https://docs.aws.amazon.com/wellarchitected/latest/reliability-pillar/rel_planning_for_recovery_disaster_recovery.html> upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: B

With the pilot light approach, you replicate your data from one environment to another and provision a copy of your core workload infrastructure, not the fully functional copy of your production environment in a recovery environment.

upvoted 1 times

😑 🌲 saymolet 6 months ago

https://aws.amazon.com/blogs/architecture/disaster-recovery-dr-architecture-on-aws-part-iii-pilot-light-and-warm-standby/upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

We have no idea if they are using SQL Server features that require OS customization etc., so we can't assume that the app would run on RDS fo SQL Server at all. We need a replica of the VM that SQL Server is currently running on, thus C. upvoted 1 times

😑 💄 thanhnv142 7 months, 3 weeks ago

C: Pilot light

- In pilot light, databases are always on, thus minimize RPO (can satisfy the 30s requirement)
- Only apps are turn off. But it can satisfy the 60 minutes requirement
- Warm standby, of cource, can satisfy all the RPO and RTO requirements, but it is more expensive than pilot light upvoted 3 times

😑 💄 richguo 8 months, 3 weeks ago

Selected Answer: C

B(warm standby) is doable, but C (pilot light) is most cost effectively.

https://aws.amazon.com/tw/blogs/architecture/disaster-recovery-dr-architecture-on-aws-part-iii-pilot-light-and-warm-standby/upvoted 2 times

😑 💄 LazyTs 9 months, 1 week ago

Selected Answer: B

The company wants to improve... so needs something guaranteed to be better than 60 mins RTO upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Configure a warm standby Amazon RDS for SQL Server database on AWS. Configure AWS Database Migration Service (AWS DMS) to use change data capture (CDC).

upvoted 2 times

😑 🌲 Eminenza22 9 months, 3 weeks ago

Warm standby is costlier than Pilot Light upvoted 2 times

😑 🌲 PantryRaid 9 months, 4 weeks ago

Selected Answer: C

AWS DRS enables RPOs of seconds and RTOs of minutes. Pilot light is also cheaper than warm standby. https://aws.amazon.com/disaster-recovery/

upvoted 3 times

E & BlueAlBird 10 months, 2 weeks ago

C is correct.

Since it is not only your core elements that are running all the time, warm standby is usually more costly than pilot light. Warm standby is another example of active/passive failover configuration. Servers can be left running in a minimum number of EC2 instances on the smallest sizes possible. Ref: https://tutorialsdojo.com/backup-and-restore-vs-pilot-light-vs-warm-standby-vs-multi-site/#:~:text=Since%20it%20is%20not%20only,on%20the%20smallest%20sizes%20possible.

upvoted 1 times

😑 📥 hozy_ 10 months, 4 weeks ago

Selected Answer: C

https://aws.amazon.com/ko/blogs/architecture/disaster-recovery-dr-architecture-on-aws-part-iii-pilot-light-and-warm-standby/

It says Pilot Light costs less than Warm Standby. upvoted 1 times

😑 💄 narddrer 11 months, 1 week ago

Selected Answer: B

https://stepstocloud.com/change-data-capture/?expand_article=1 upvoted 1 times

😑 👗 darekw 9 months, 1 week ago

Based on this link Change Data Capture (CDC) in AWS is a mechanism for tracking changes to data in DynamoDB tables. And the question refer to Microsoft SQL Server Standard

upvoted 1 times

😑 🌲 darekw 9 months, 1 week ago

ok, it's also fror SQL servers:

SQL Server Change Data Capture (CDC) is a feature that enables you to capture insert, update, and delete activity on a SQL Server table, upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Yeah, but still it doesn't make sense here, it does not support various SQL Server features. upvoted 1 times

😑 👗 Zox42 11 months, 1 week ago

Selected Answer: C

Answer C. RPO is in seconds and RTO 5-20 min; pilot light costs less than warm standby (and of course less than active-active). https://docs.aws.amazon.com/drs/latest/userguide/failback-overview.html#recovery-objectives upvoted 1 times

😑 💄 haoAWS 11 months, 3 weeks ago

Selected Answer: B

The answer should be B. ACD cannot make the RPO for only 30 seconds. upvoted 1 times

😑 💄 haoAWS 11 months, 3 weeks ago

Sorry for mistake, A can also make RPO very low, but A is more expensive than B. upvoted 1 times

A company has an on-premises server that uses an Oracle database to process and store customer information. The company wants to use an AWS database service to achieve higher availability and to improve application performance. The company also wants to offload reporting from its primary database system.

Which solution will meet these requirements in the MOST operationally efficient way?

A. Use AWS Database Migration Service (AWS DMS) to create an Amazon RDS DB instance in multiple AWS Regions. Point the reporting functions toward a separate DB instance from the primary DB instance.

B. Use Amazon RDS in a Single-AZ deployment to create an Oracle database. Create a read replica in the same zone as the primary DB instance. Direct the reporting functions to the read replica.

C. Use Amazon RDS deployed in a Multi-AZ cluster deployment to create an Oracle database. Direct the reporting functions to use the reader instance in the cluster deployment.

D. Use Amazon RDS deployed in a Multi-AZ instance deployment to create an Amazon Aurora database. Direct the reporting functions to the reader instances.

Correct Answer: D

Community vote distribution

C (34%)

😑 🚢 mrsoa (Highly Voted 🖬) 10 months, 2 weeks ago

Selected Answer: D Its D Multi-AZ DB clusters aren't available with the following engines: RDS for MariaDB RDS for Oracle RDS for SQL Server

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.RDS_Fea_Regions_DB-eng.Feature.MultiAZDBClusters.html upvoted 29 times

E & alexandercamachop (Highly Voted 🖬 1 year ago

Selected Answer: C

C. Use Amazon RDS deployed in a Multi-AZ cluster deployment to create an Oracle database. Direct the reporting functions to use the reader instance in the cluster deployment.

A and B discarted. The answer is between C and D D says use an Amazon RDS to build an Amazon Aurora, makes no sense. C is the correct one, high availability in multi az deployment. Also point the reporting to the reader replica. upvoted 12 times

😑 💄 1rob 6 months, 2 weeks ago

Multi-AZ DB clusters aren't available with the following engines: RDS for MariaDB RDS for Oracle RDS for SQL Server upvoted 4 times

😑 🌲 **bogobob** 6 months, 4 weeks ago

using RDS to build Aurora from an Oracle DB https://aws.amazon.com/tutorials/break-free-from-legacy-databases/migrate-oracle-to-amazonaurora/

upvoted 2 times

😑 🖀 Ravan (Most Recent 🕑 3 months ago

Selected Answer: D

Multi-AZ (Availability Zone) deployments are not available for the following Amazon RDS database engines:

Amazon Aurora with MySQL compatibility
 Amazon Aurora with PostgreSQL compatibility
 Amazon RDS for SQL Server Express Edition
 Amazon RDS for Oracle Standard Edition One
 Amazon RDS for Oracle Standard Edition
 Amazon RDS for Oracle SE2 (Standard Edition 2)

For these database engines, Amazon RDS provides high availability using other mechanisms specific to each engine, such as Read Replicas or different standby configurations. However, Multi-AZ deployments, which automatically provision and maintain a synchronous standby replica in a different Availability Zone for failover support, are not supported for these engines. upvoted 3 times

😑 🌲 noircesar25 3 months, 1 week ago

this link expalins why the answer is C and confirms that rds for oracle supports multi-AZ https://aws.amazon.com/blogs/aws/multi-az-option-for-amazon-rds-oracle/ upvoted 1 times

😑 🌲 osmk 3 months, 3 weeks ago

Selected Answer: D

requiring high availability and performance.https://aws.amazon.com/rds/aurora/ upvoted 1 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: D

Between C&D, D is correct as C is not possible: https://aws.amazon.com/blogs/aws/multi-az-option-for-amazon-rds-oracle/ upvoted 1 times

E **a** pentium75 5 months, 1 week ago

Selected Answer: D

Not A - Creating multiple instances and keeping them in sync in DMS is surely not "operationally efficient"

Not B - "replica in the same zone" -> does not provide "higher availability"

Not C - "Multi-AZ cluster" does not support Oracle engine

Thus D. Question does not mention that the app would use Oracle-specific features; we're also not asked to minimize application changes. Ideal solution from AWS point of view is to move from Oracle to Aurora.

😑 🏝 aws94 6 months ago

Selected Answer: C

i am sure just look here https://aws.amazon.com/ar/blogs/aws/amazon-rds-multi-az-db-cluster/ upvoted 1 times

😑 🌲 aws94 6 months ago

sorry this is the right link: https://aws.amazon.com/ar/blogs/aws/multi-az-option-for-amazon-rds-oracle/ upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Multi-AZ cluster (!)" does not support Oracle. Multi-AZ instance would. upvoted 1 times

😑 🌲 EEK2k 7 months ago

Selected Answer: C

It should be C. Oracle DB is supported in RDS Multi-AZ with one standby for HA. https://aws.amazon.com/rds/features/multi-az/. Additionally, a reader instance/replica could be added to RDS Multi-AZ with one standby setup to offload the read requests. Aurora is only supported MySQL and Postgres compatible DB so "D" is out.

upvoted 2 times

😑 💄 1rob 6 months, 2 weeks ago

https://aws.amazon.com/rds/features/multi-az/ gives:Amazon RDS Multi-AZ is available for RDS for PostgreSQL, RDS for MySQL, RDS for MariaDB, RDS for SQL Server, RDS for Oracle, and RDS for Db2. Amazon RDS Multi-AZ with two readable standbys is available for RDS for PostgreSQL and RDS for MySQL.

So no reader instance. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: D

Multi-AZ DB clusters are NOT available with the following engines: RDS for MariaDB RDS for Oracle RDS for SQL Server

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.RDS_Fea_Regions_DB-eng.Feature.MultiAZDBClusters.html upvoted 1 times

😑 👗 danielmakita 7 months, 2 weeks ago

It is C. Aurora database doesn't support Oracle. upvoted 1 times

😑 🌡 wsdasdasdqwdaw 7 months, 2 weeks ago

You can use Aurora instead of Oracle. There are tutorials how to migrate Oracle to Aurora. On top C is not supported. The is not Multi-AZ DB CLUSTER for Oracle.

upvoted 2 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

lt is D

upvoted 1 times

😑 💄 thanhnv142 7 months, 3 weeks ago

None options seems valid. Not C because it is not supported. But not D as well. RDS is not Aurora. They are two separate services. Additionally, In multi AZ instance deployment, it only provides fault tolerance, not High avai.

upvoted 2 times

😑 💄 Nikki013 9 months, 2 weeks ago

Selected Answer: D

Multi-AZ Cluster does not support Oracle as engine:

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.RDS_Fea_Regions_DB-eng.Feature.MultiAZDBClusters.html upvoted 1 times

😑 🌲 Bennyboy789 9 months, 2 weeks ago

Selected Answer: D

D is my choice. Multi-AZ DB cluster does not support Oracle DB. upvoted 2 times

😑 🌲 rjbihari 9 months, 2 weeks ago

Option C is correct one . As there is no option for 'Aurora(Oracle Compatible)'.so this kick out D from race. upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Using RDS Multi-AZ provides high availability and failover capabilities for the primary Oracle database.

The reader instance in the Multi-AZ cluster can be used for offloading reporting workloads from the primary instance. This improves performance.

RDS Multi-AZ has automatic failover between AZs. DMS and Aurora migrations (A, D) would incur more effort and downtime.

Single-AZ with a read replica (B) does not provide the AZ failover capability that Multi-AZ does. upvoted 1 times

😑 💄 ukivanlamlpi 10 months, 1 week ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_ReadRepl.html upvoted 3 times

Which combination of steps will meet these requirements MOST cost-effectively? (Choose three.)

A. Create an AWS Lambda function to retrieve user information from Amazon DynamoDB. Create an Amazon API Gateway endpoint to accept RESTful APIs. Send the API calls to the Lambda function.

B. Create an Amazon Elastic Container Service (Amazon ECS) service behind an Application Load Balancer to retrieve user information from Amazon RDS. Create an Amazon API Gateway endpoint to accept RESTful APIs. Send the API calls to the Lambda function.

C. Create an Amazon Cognito user pool to authenticate users.

D. Create an Amazon Cognito identity pool to authenticate users.

E. Use AWS Amplify to serve the frontend web content with HTML, CSS, and JS. Use an integrated Amazon CloudFront configuration.

F. Use Amazon S3 static web hosting with PHP, CSS, and JS. Use Amazon CloudFront to serve the frontend web content.

Correct Answer: ACE

Community vote distribution

13% 5%

😑 🌡 manOfThePeople (Highly Voted 🖬 9 months, 2 weeks ago

ACE (79%)

If in doubt between E or F. S3 doesn't support server-side scripts, PHP is a server-side script. The answer is ACE. https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteHosting.html upvoted 13 times

😑 🌲 msdnpro (Highly Voted 🖬) 11 months, 3 weeks ago

Selected Answer: ACE

Option B (Amazon ECS) is not the best option since the website "can be idle for a long time", so Lambda (Option A) is a more cost-effective choice

Option D is incorrect because User pools are for authentication (identity verification) while Identity pools are for authorization (access control).

Option F is wrong because S3 web hosting only supports static web files like HTML/CSS, and does not support PHP or JavaScript. upvoted 6 times

😑 💄 0628atv 11 months, 3 weeks ago

https://aws.amazon.com/getting-started/projects/build-serverless-web-app-lambda-apigateway-s3-dynamodb-cognito/module-1/?nc1=h_ls upvoted 2 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: ACE

A: App may be idle for long time so Lambda is perfect (charge per invocation)

- C: Cognito user pool for user auth
- E: Amplify is low code web dev tool
- B: Wrong, too much cost when idle

D: Identity pool is session management/identification. Does not help with auth.

F: S3 + PHP doesn't work also no security upvoted 2 times

😑 🏝 rcptryk 6 months, 1 week ago

Selected Answer: ACE

https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteHosting.html S3 doesn't support server-side scripting upvoted 1 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: ACE

User Pool = authentication Identity Pool = authorization upvoted 5 times

😑 💄 thanhnv142 7 months, 3 weeks ago

ADF:

A: for hosting the dynamic content of the app. Pay as execution

D: for granting temporary privilege access to users who has paid a fee.

F: for hosting the static content of the app

upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

There is no static content in this web application so F is wrong. You cannot host PHP on S3 also so it is just wrong. upvoted 1 times

😑 🌲 kwang312 8 months, 4 weeks ago

Selected Answer: ACE

ACE is correct answer upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: CEF

C) Create an Amazon Cognito user pool to authenticate users.

E) Use AWS Amplify to serve the frontend web content with HTML, CSS, and JS. Use an integrated CloudFront configuration.

F) Use Amazon S3 static web hosting with PHP, CSS, and JS. Use Amazon CloudFront to serve the frontend web content. upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

There is no static content in this web application so F is wrong. You cannot host PHP on S3 also so it is just wrong. upvoted 1 times

😑 🌲 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: ACE

Build a web application = AWS Amplify Sign in users = Amazon Cognito user pool Traffic can be idle for a long time = AWS Lambda

Amazon S3 does not support server-side scripting such as PHP, JSP, or ASP.NET. https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteHosting.html? icmpid=docs_amazons3_console#:~:text=website%20relies%20on-,server%2Dside,-processing%2C%20including%20server Traffic can be idle for a long time = AWS Lambda upvoted 1 times

😑 💄 james2033 11 months ago

Selected Answer: ACE

Use exclusion method: No need for Container (no need run all time), remove B. PHP cannot run with static Amazon S3, remove F. Use selection method: Idle for sometime, choose AWS Lambda, choose A. "Amazon Cognito is an identity platform for web and mobile apps." (https://docs.aws.amazon.com/cognito/latest/developerguide/what-is-amazon-cognito.html), choose C. Create an identity pool https://docs.aws.amazon.com/cognito/latest/developerguide/tutorial-create-identity-pool.html . AWS Amplify https://aws.amazon.com/amplify/ fc build full-stack web-app in hours.

upvoted 5 times

😑 🌲 baba365 11 months ago

Ans: ACF

use AWS SDK for PHP/JS with S3

https://docs.aws.amazon.com/sdk-for-php/v3/developer-guide/php_s3_code_examples.html upvoted 1 times

😑 🌲 unbendable 7 months, 2 weeks ago

did you actually read the link or just copy the first link from google here? the sdk is intended for usage in a php application. it does not say

anything about php support in a s3 bucket

upvoted 1 times

😑 👗 Zox42 11 months, 1 week ago

Selected Answer: ACE

Answer is ACE

upvoted 1 times

😑 🌲 jaydesai8 11 months, 1 week ago

Selected Answer: ACE

Lambda =serverless User Pool = For user authentication Amplify = hosting web/mobile apps upvoted 2 times

E & live_reply_developers 11 months, 3 weeks ago

Selected Answer: ACE

S3 doesn't support PHP as stated in answer F.

https://docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteHosting.html upvoted 3 times

😑 💄 wRhIH 11 months, 3 weeks ago

Selected Answer: ACE

I don't think S3 can handle anything dynamic such as PHP. So I go for ACE upvoted 1 times

😑 🏝 antropaws 11 months, 3 weeks ago

Selected Answer: ACF

ACF no doubt. Check the difference between user pools and identity pools. upvoted 2 times

E & MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: ACE

These are the correct answers ! upvoted 1 times

Which solution will meet these requirements?

- A. Generate and provide S3 signed cookies to premium customers.
- B. Generate and provide CloudFront signed URLs to premium customers.
- C. Use origin access control (OAC) to limit the access of non-premium customers.
- D. Generate and activate field-level encryption to block non-premium customers.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 🌲 NayeraB (Highly Voted 🖬) 3 months, 3 weeks ago

This question page is filled with premium customers I just can't upvoted 6 times

😑 🌲 awsgeek75 (Most Recent 🕐) 5 months ago

Selected Answer: B

CloudFront Signed URL with Custom Policy are exactly for this.

A: Nope, cookies don't help as they don't restrict URL

C: Wrong. OAC for non-premium customers, how is that even possible without any details here?

D: Field encryption, while good idea, does not help restricting the content by customer upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: B

Authentication is done by Cloudfront, thus B upvoted 3 times

😑 🌲 ferdzcruz 5 months, 2 weeks ago

Content on demand = CloudFront. B upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Generate and provide CloudFront signed URLs to premium customers. upvoted 2 times

E 🌡 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: B

Use CloudFront signed URLs or signed cookies to restrict access to documents, business data, media streams, or content that is intended for selected users, for example, users who have paid a fee.

https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/PrivateContent.html#:~:text=CloudFront%20signed%20URLs upvoted 2 times

😑 💄 james2033 11 months ago

Selected Answer: B

See https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-signed-urls.html#private-content-how-signed-urls-work

upvoted 1 times

😑 🌲 haoAWS 11 months, 3 weeks ago

Selected Answer: B

https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/PrivateContent.html Notice that A is not correct because it should be CloudFront signed URL, not S3. upvoted 2 times

😑 💄 antropaws 11 months, 3 weeks ago

Why not C?

upvoted 1 times

😑 💄 antropaws 11 months, 3 weeks ago

https://aws.amazon.com/blogs/networking-and-content-delivery/amazon-cloudfront-introduces-origin-access-control-oac/ upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

OAC requires the consumers to have an IAM role with access to the S3 content, this is not what we're after here. upvoted 1 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: B

Signed URLs https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/PrivateContent.html upvoted 2 times

😑 👗 haoAWS 11 months, 3 weeks ago

Then why A is incorrect? upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Because Authentication is done by Cloudfront, not S3. upvoted 1 times

A company runs Amazon EC2 instances in multiple AWS accounts that are individually bled. The company recently purchased a Savings Pian. Because of changes in the company's business requirements, the company has decommissioned a large number of EC2 instances. The company wants to use its Savings Plan discounts on its other AWS accounts.

Which combination of steps will meet these requirements? (Choose two.)

A. From the AWS Account Management Console of the management account, turn on discount sharing from the billing preferences section.

B. From the AWS Account Management Console of the account that purchased the existing Savings Plan, turn on discount sharing from the billing preferences section. Include all accounts.

C. From the AWS Organizations management account, use AWS Resource Access Manager (AWS RAM) to share the Savings Plan with other accounts.

D. Create an organization in AWS Organizations in a new payer account. Invite the other AWS accounts to join the organization from the management account.

E. Create an organization in AWS Organizations in the existing AWS account with the existing EC2 instances and Savings Plan. Invite the other AWS accounts to join the organization from the management account.

Correct Answer: AE				
<i>Community vote distribution</i> AE (47%)	AD (37%)	Other		
🗖 🛔 Aigerim2010 (Highly Voted 🖬]11 months, 1 week ago			
i had this question today upvoted 14 times	,			
😑 🛔 awsgeek75 (Most Recent 🕐 5	months ago			
Selected Answer: AD				

For me, E makes no sense as the discount is with a new payer and cannot be transferred to an existing account unless customer service is involved upvoted 1 times

😑 🌲 awsgeek75 5 months ago

Also, "A company runs Amazon EC2 instances in multiple AWS accounts that are individually bled"

It's not bled, it is "billed" upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: AD

Organization should be created by a new account that is reserved for management. Thus D, followed by A (discount sharing must be enabled in the management account).

upvoted 2 times

😑 🌲 ErnShm 9 months, 1 week ago

AE

https://repost.aws/questions/QUQoJuQLNOTDiyEuCLARIBFQ/transfer-savings-plan-across-

organizations#:~:text=AWS%20Support%20can%20transfer%20Savings%20Plans%20from%20the%20management%20account%20to%20a%20me

mber%20account%20or%20from%20a%20member%20account%20to%20the%20management%20account%20within%20a%20single%20Organization%20with%20an%20AWS%20Support%20Case.

upvoted 1 times

😑 💄 Nikki013 9 months, 2 weeks ago

Selected Answer: AD

It is not recommended to have workload on the management account. upvoted 2 times

😑 🌲 lemur88 9 months, 2 weeks ago

Selected Answer: AD

Not E - it mentions using an account with existing EC2s as the management account, which goes against the best practice for a management account

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_best-practices_mgmt-acct.html upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: AE

upvoted 1 times

😑 🌡 TariqKipkemei 10 months, 3 weeks ago

Selected Answer: AE

AE is best upvoted 1 times

😑 💄 james2033 11 months ago

Selected Answer: AE

- B is not accepted, because "include all accounts", remove B.

- D has "Create an organization in AWS Organization in a new payer acocunt", it is wrong, remove D.

- at C: AWS Resource Access Manager (AWS RAM) https://aws.amazon.com/ram/ it is for security, not for billing. Remove C. Has A, E remain, and choosed.

A. "turn on discount sharing" is ok. This case: Has discount for many EC2 instances in one account, then want to share with other user. At E, create Organization, then share.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

What is the problem with "include all accounts"? upvoted 1 times

😑 💄 antropaws 11 months, 3 weeks ago

Selected Answer: AE I vote AE. upvoted 1 times

E & MrAWSAssociate 11 months, 3 weeks ago

Selected Answer: AE AE are correct !

upvoted 1 times

😑 💄 oras2023 12 months ago

Selected Answer: CD

It's not good practice to create a payer account with any workload so it must be D. By the reason that we need Organizations for sharing, then we need to turn on its from our PAYER account. (all sub-accounts start share discounts) upvoted 1 times

😑 🌲 oras2023 12 months ago

changed to AD upvoted 3 times

😑 🌲 maver144 1 year ago

Selected Answer: AE

@alexandercamachop it is AE. I believe its just typo. RAM is not needed anyhow. upvoted 4 times

😑 🌲 oras2023 12 months ago

You are right https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ri-turn-off.html upvoted 3 times

😑 🏝 alexandercamachop 1 year ago

Selected Answer: CE

C & E for sure.

In order to share savings plans, we need an organization. Create that organization first and then invite everyone to it. From that console share it other accounts.

upvoted 2 times

Which solution will meet these requirements?

A. Create a canary release deployment stage for API Gateway. Deploy the latest API version. Point an appropriate percentage of traffic to the canary stage. After API verification, promote the canary stage to the production stage.

B. Create a new API Gateway endpoint with a new version of the API in OpenAPI YAML file format. Use the import-to-update operation in merge mode into the API in API Gateway. Deploy the new version of the API to the production stage.

C. Create a new API Gateway endpoint with a new version of the API in OpenAPI JSON file format. Use the import-to-update operation in overwrite mode into the API in API Gateway. Deploy the new version of the API to the production stage.

D. Create a new API Gateway endpoint with new versions of the API definitions. Create a custom domain name for the new API Gateway API. Point the Route 53 alias record to the new API Gateway API custom domain name.

Correct Answer: A

Community vote distribution

A (100%)

😑 🖀 AudreyNguyenHN (Highly Voted 🖬 10 months, 2 weeks ago

We made it all the way here. Good luck everyone! upvoted 11 times

😑 👗 dddddddddww12 (Highly Voted 🐽 11 months ago

what are the total number of questions this package has as on 14 July 2023 , is it 544 or 551 ? upvoted 8 times

E **& Faridtnx** 2 months, 2 weeks ago

March 2024 its 825 questions. Constantly adding. Doe ur question, ExamTopic always shows a few more question in listing compared to actual number upvoted 4 times

😑 👗 NayeraB 3 months, 3 weeks ago

It's 20th of Feb 2024, and it's 798 (it says 804 at the top I donno why tho) upvoted 2 times

😑 🆀 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: A

https://docs.aws.amazon.com/apigateway/latest/developerguide/canary-release.html upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

In a canary release deployment, total API traffic is separated at random into a production release and a canary release with a pre-configured ratio. Typically, the canary release receives a small percentage of API traffic and the production release takes up the rest. The updated API features are only visible to API traffic through the canary. You can adjust the canary traffic percentage to optimize test coverage or performance.

https://docs.aws.amazon.com/apigateway/latest/developerguide/canary-release.html upvoted 6 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

Using a canary release deployment allows incremental rollout of the new API version to a percentage of traffic. This minimizes impact on customer and potential data loss during the release.

upvoted 2 times

E **L** TariqKipkemei 10 months, 3 weeks ago

Selected Answer: A

Minimal effects on customers and minimal data loss = Canary deployment upvoted 3 times

😑 💄 james2033 11 months ago

Selected Answer: A

Key word "canary release". See this term in See: https://www.jetbrains.com/teamcity/ci-cd-guide/concepts/canary-release/ and/or https://martinfowler.com/bliki/CanaryRelease.html

upvoted 1 times

E & Abrar2022 12 months ago

Selected Answer: A

keyword: "latest versions on an api"

Canary release is a software development strategy in which a "new version of an API" (as well as other software) is deployed for testing purposes. upvoted 2 times

😑 👗 jkhan2405 1 year ago

Selected Answer: A

upvoted 1 times

😑 💄 alexandercamachop 1 year ago

Selected Answer: A

A. Create a canary release deployment stage for API Gateway. Deploy the latest API version. Point an appropriate percentage of traffic to the canar stage. After API verification, promote the canary stage to the production stage.

Canary release meaning only certain percentage of the users. upvoted 3 times

A company wants to direct its users to a backup static error page if the company's primary website is unavailable. The primary website's DNS records are hosted in Amazon Route 53. The domain is pointing to an Application Load Balancer (ALB). The company needs a solution that minimizes changes and infrastructure overhead.

Which solution will meet these requirements?

A. Update the Route 53 records to use a latency routing policy. Add a static error page that is hosted in an Amazon S3 bucket to the records so that the traffic is sent to the most responsive endpoints.

B. Set up a Route 53 active-passive failover configuration. Direct traffic to a static error page that is hosted in an Amazon S3 bucket when Route 53 health checks determine that the ALB endpoint is unhealthy.

C. Set up a Route 53 active-active configuration with the ALB and an Amazon EC2 instance that hosts a static error page as endpoints. Configure Route 53 to send requests to the instance only if the health checks fail for the ALB.

D. Update the Route 53 records to use a multivalue answer routing policy. Create a health check. Direct traffic to the website if the health check passes. Direct traffic to a static error page that is hosted in Amazon S3 if the health check does not pass.

Correct Answer: *B*

Community vote distribution

B (85%)

D (15%)

😑 🆀 TariqKipkemei 6 months, 4 weeks ago

Selected Answer: B

Set up a Route 53 active-passive failover configuration. Direct traffic to a static error page that is hosted in an Amazon S3 bucket when Route 53 health checks determine that the ALB endpoint is unhealthy.

upvoted 4 times

😑 💄 ssa03 9 months, 1 week ago

Selected Answer: B

B is correct upvoted 4 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Setting up a Route 53 active-passive failover configuration with the ALB as the primary endpoint and an Amazon S3 static website as the passive endpoint meets the requirements with minimal overhead.

Route 53 health checks can monitor the ALB health. If the ALB becomes unhealthy, traffic will automatically failover to the S3 static website. This provides automatic failover with minimal configuration changes upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Sorry. I mean B upvoted 4 times

😑 💄 Nirav1112 10 months, 1 week ago

B is correct upvoted 2 times

😑 🌡 mrsoa 10 months, 1 week ago

Selected Answer: B

B seems correct upvoted 3 times

😑 👗 Bmaster 10 months, 2 weeks ago

B is correct..

https://repost.aws/knowledge-center/fail-over-s3-r53 upvoted 2 times

😑 🚢 awsgeek75 5 months ago

Nice link find! upvoted 1 times

What should a solutions architect recommend?

A. Set up AWS Storage Gateway to connect with the backup applications using the NFS interface.

B. Set up an Amazon EFS file system that connects with the backup applications using the NFS interface.

C. Set up an Amazon EFS file system that connects with the backup applications using the iSCSI interface.

D. Set up AWS Storage Gateway to connect with the backup applications using the iSCSI-virtual tape library (VTL) interface.

Correct Answer: D

Community vote distribution

D (100%)

😑 🏝 awsgeek75 5 months ago

Selected Answer: D

Tape... lol

The company must preserve it's existing investment so they want to keep using existing applications. This means EFS won't work. and NFS may no be compatible. VTL is the only thing that may be compatible with an application workflow that backups to tapes.

Who the hell comes up with these questions! upvoted 2 times

😑 🌲 TariqKipkemei 6 months, 4 weeks ago

Selected Answer: D

Use Tape Gateway to replace physical tapes on premises with virtual tapes on AWS—reducing your data storage costs without changing your tape based backup workflows. Tape Gateway supports all leading backup applications and caches virtual tapes on premises for low-latency data access. It compresses your tape data, encrypts it, and stores it in a virtual tape library in Amazon Simple Storage Service (Amazon S3). From there, you can transfer it to either Amazon S3 Glacier Flexible Retrieval or Amazon S3 Glacier Deep Archive to help minimize your long-term storage costs.

https://aws.amazon.com/storagegateway/vtl/#:~:text=Use-,Tape%20Gateway,-to%20replace%20physical upvoted 3 times

😑 💄 Nisarg2121 7 months, 3 weeks ago

Selected Answer: D

Tape Gateway is use for attache with app. upvoted 3 times

😑 💄 gouranga45 8 months ago

Selected Answer: D Option says it all upvoted 3 times

😑 🌡 Po_chih 8 months ago

Selected Answer: D

Tape Gateway enables you to replace using physical tapes on premises with virtual tapes in AWS without changing existing backup workflows. Tape Gateway supports all leading backup applications and caches virtual tapes on premises for low-latency data access. Tape Gateway encrypts data between the gateway and AWS for secure data transfer, and compresses data and transitions virtual tapes between Amazon S3 and Amazon S3 Glacier Flexible Retrieval, or Amazon S3 Glacier Deep Archive, to minimize storage costs.

upvoted 2 times

😑 💄 ssa03 9 months, 1 week ago

Selected Answer: D

https://aws.amazon.com/storagegateway/vtl/?nc1=h_ls upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Set up AWS Storage Gateway to connect with the backup applications using the iSCSI-virtual tape library (VTL) interface. upvoted 1 times

😑 🌲 Bmaster 10 months, 2 weeks ago

D is correct

https://aws.amazon.com/storagegateway/vtl/?nc1=h_ls upvoted 1 times

Question #547

A company has data collection sensors at different locations. The data collection sensors stream a high volume of data to the company. The company wants to design a platform on AWS to ingest and process high-volume streaming data. The solution must be scalable and support data collection in near real time. The company must store the data in Amazon S3 for future reporting.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use Amazon Kinesis Data Firehose to deliver streaming data to Amazon S3.

B. Use AWS Glue to deliver streaming data to Amazon S3.

C. Use AWS Lambda to deliver streaming data and store the data to Amazon S3.

D. Use AWS Database Migration Service (AWS DMS) to deliver streaming data to Amazon S3.

Correct Answer: A		
Community vote distribution		
A (83%)	D (17%)	
😑 📥 awsgeek75 5 months ago		

Selected Answer: A

High volume streaming data = Kinesis B: Glue is for ETL (to S3 is ok) but not for streaming C: Lambda more overhead D: Streaming != Data migration upvoted 2 times

😑 📥 pentium75 5 months, 1 week ago

Selected Answer: A

sensor data = Kinesis upvoted 3 times

😑 🌲 TariqKipkemei 6 months, 4 weeks ago

Selected Answer: A

Amazon Kinesis Data Firehose: Capture, transform, and load data streams into AWS data stores (S3) in near real-time.

https://aws.amazon.com/pm/kinesis/?

gclid=CjwKCAiAu9yqBhBmEiwAHTx5px9z182o0HBEX0BGXU7VeOCOdNpkJMxgbSfvcHlNKN4NHVnbEa0Y1xoCuU0QAvD_BwE&trk=239a97c0-9c5d-42a5-ac65-

7381b62f3756&sc_channel=ps&ef_id=CjwKCAiAu9yqBhBmEiwAHTx5px9z182o0HBEX0BGXU7VeOCOdNpkJMxgbSfvcHlNKN4NHVnbEa0Y1xoCuU0 QAvD_BwE:G:s&s_kwcid=AL!4422!3!651612444428!e!!g!!kinesis%20firehose!19836376048!149982297311#:~:text=Kinesis%20Data%20Firehose-,Ca pture%2C,-transform%2C%20and%20load

upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

A for sure

upvoted 2 times

🖃 👗 ssa03 9 months, 1 week ago

Selected Answer: A

Correct Answer: A upvoted 2 times

😑 🌲 manOfThePeople 9 months, 2 weeks ago

A is the answer, near real-time = Kinesis Data Firehose. upvoted 3 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Use Amazon Kinesis Data Firehose to deliver streaming data to Amazon S3 upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

That is A

upvoted 1 times

😑 畠 bjexamprep 10 months ago

Selected Answer: D

Kinesis Data Firehose is only real-time answer upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

That is A upvoted 2 times

😑 🌲 mrsoa 10 months, 1 week ago

Selected Answer: A

A is the correct answer upvoted 2 times

😑 🏝 Deepakin96 10 months, 2 weeks ago

Selected Answer: A

Kinesis = Near Real Time upvoted 3 times

😑 👗 Kaiden123 10 months, 2 weeks ago

Selected Answer: A

Data collection in near real time = Amazon Kinesis Data Firehose upvoted 3 times

😑 💄 Bmaster 10 months, 2 weeks ago

A is correct.. upvoted 1 times

A company has separate AWS accounts for its finance, data analytics, and development departments. Because of costs and security concerns, the company wants to control which services each AWS account can use.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use AWS Systems Manager templates to control which AWS services each department can use.

- B. Create organization units (OUs) for each department in AWS Organizations. Attach service control policies (SCPs) to the OUs.
- C. Use AWS CloudFormation to automatically provision only the AWS services that each department can use.
- D. Set up a list of products in AWS Service Catalog in the AWS accounts to manage and control the usage of specific AWS services.

Correct Answer: B Community vote distribution

B (89%)

11%

😑 🌲 awsgeek75 5 months ago

Selected Answer: B Departments = Organizational Units upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 4 weeks ago

Selected Answer: B

Create organization units (OUs) for each department in AWS Organizations. Attach service control policies (SCPs) to the OUs upvoted 1 times

😑 💄 ssa03 9 months, 1 week ago

Selected Answer: B

Correct Answer: B upvoted 1 times

😑 👗 lemur88 9 months, 2 weeks ago

Selected Answer: B

SCPs to centralize permissioning upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Create organization units (OUs) for each department in AWS Organizations. Attach service control policies (SCPs) to the OUs. upvoted 1 times

😑 🌲 xyb 10 months, 1 week ago

Selected Answer: B control services --> SCP upvoted 1 times

😑 🏝 Ale1973 10 months, 1 week ago

Selected Answer: D

My rational: Scenary is "A company has separate AWS accounts", it is not mentioning anything about use of Organizations or needs related to centralized managment of these accounts.

Then, set up a list of products in AWS Service Catalog in the AWS accounts (on each AWS account) is the best way to manage and control the usage of specific AWS services.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Separate AWS accounts" just says that it's multiple accounts, it does not indicate that they are NOT connected into a organization.

Service Catalog alone does not restrict anything. You'd need to create a service in Service Catalog for everything you're allowing to use, then grant permissions on those services, and you'd need to remove other permissions from everyone. All of which is not mentioned in D. Just "setting up a list of products in AWS Service Catalog in the AWS accounts" will not restrict anyone from doing what he could do before. upvoted 2 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: B

BBBBBBBBB

upvoted 1 times

😑 🌢 Deepakin96 10 months, 2 weeks ago

Selected Answer: B

To control different AWS account you required AWS Organisation upvoted 1 times

😑 🌲 Bmaster 10 months, 2 weeks ago

B is correct!!!! upvoted 1 times

A company has created a multi-tier application for its ecommerce website. The website uses an Application Load Balancer that resides in the public subnets, a web tier in the public subnets, and a MySQL cluster hosted on Amazon EC2 instances in the private subnets. The MySQL database needs to retrieve product catalog and pricing information that is hosted on the internet by a third-party provider. A solutions architect must devise a strategy that maximizes security without increasing operational overhead.

What should the solutions architect do to meet these requirements?

A. Deploy a NAT instance in the VPC. Route all the internet-based traffic through the NAT instance.

B. Deploy a NAT gateway in the public subnets. Modify the private subnet route table to direct all internet-bound traffic to the NAT gateway.

C. Configure an internet gateway and attach it to the VPModify the private subnet route table to direct internet-bound traffic to the internet gateway.

D. Configure a virtual private gateway and attach it to the VPC. Modify the private subnet route table to direct internet-bound traffic to the virtual private gateway.

Correct Answer: B

Community vote distribution

B (100%)

😑 🏝 awsgeek75 5 months ago

Selected Answer: B

A: Probably an old question so this option is here but NAT instance is overhead

C: Not secure as IG opens up a lot of things

D: VPG connects to a service

B: NG is managed solution. Secure by config

upvoted 2 times

😑 👗 TariqKipkemei 6 months, 4 weeks ago

Selected Answer: B

Deploy a NAT gateway in the public subnets. Modify the private subnet route table to direct all internet-bound traffic to the NAT gateway upvoted 2 times

😑 📥 ssa03 9 months, 1 week ago

Selected Answer: B

Correct Answer: B upvoted 3 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Deploy a NAT gateway in the public subnets. Modify the private subnet route table to direct all internet-bound traffic to the NAT gateway. upvoted 2 times

😑 💄 Deepakin96 10 months, 2 weeks ago

Selected Answer: B

NAT Gateway is safe upvoted 2 times

😑 🆀 Bmaster 10 months, 2 weeks ago

B is correct upvoted 1 times A company is using AWS Key Management Service (AWS KMS) keys to encrypt AWS Lambda environment variables. A solutions architect needs to ensure that the required permissions are in place to decrypt and use the environment variables.

Which steps must the solutions architect take to implement the correct permissions? (Choose two.)

A. Add AWS KMS permissions in the Lambda resource policy.

B. Add AWS KMS permissions in the Lambda execution role.

C. Add AWS KMS permissions in the Lambda function policy.

D. Allow the Lambda execution role in the AWS KMS key policy.

E. Allow the Lambda resource policy in the AWS KMS key policy.

Correct Answer: *BD*

Community vote distribution

BD (100%)

😑 🖀 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: BD

To decrypt environment variables encrypted with AWS KMS, Lambda needs to be granted permissions to call KMS APIs. This is done in two places:

The Lambda execution role needs kms:Decrypt and kms:GenerateDataKey permissions added. The execution role governs what AWS services the function code can access.

The KMS key policy needs to allow the Lambda execution role to have kms:Decrypt and kms:GenerateDataKey permissions for that specific key. This allows the execution role to use that particular key.

upvoted 5 times

😑 🌲 wizcloudifa (Most Recent 🕐) 1 month, 1 week ago

Selected Answer: BD

As per the principle of least privilege, granting permissions = role level upvoted 2 times

😑 👗 TariqKipkemei 6 months, 4 weeks ago

Selected Answer: BD

Allow the Lambda execution role in the AWS KMS key policy then add AWS KMS permissions in the role. upvoted 2 times

😑 📥 ssa03 9 months, 1 week ago

Selected Answer: BD Correct Answer: BD upvoted 2 times

E & Nirav1112 10 months, 1 week ago

its B & D upvoted 1 times

😑 🌡 mrsoa 10 months, 1 week ago

Selected Answer: BD

BD BD BD BD upvoted 1 times

😑 🏝 Deepakin96 10 months, 2 weeks ago

Selected Answer: BD

Its B and D

upvoted 1 times

😑 🌡 Bmaster 10 months, 2 weeks ago

My choice is B,D upvoted 1 times

A company has a financial application that produces reports. The reports average 50 KB in size and are stored in Amazon S3. The reports are frequently accessed during the first week after production and must be stored for several years. The reports must be retrievable within 6 hours.

Which solution meets these requirements MOST cost-effectively?

A. Use S3 Standard. Use an S3 Lifecycle rule to transition the reports to S3 Glacier after 7 days.

B. Use S3 Standard. Use an S3 Lifecycle rule to transition the reports to S3 Standard-Infrequent Access (S3 Standard-IA) after 7 days.

C. Use S3 Intelligent-Tiering. Configure S3 Intelligent-Tiering to transition the reports to S3 Standard-Infrequent Access (S3 Standard-IA) and S3 Glacier.

D. Use S3 Standard. Use an S3 Lifecycle rule to transition the reports to S3 Glacier Deep Archive after 7 days.

Community vote distribution A (68%) C (30%)	Correct Answer: B		
	-	C (30%)	

😑 👗 zjcorpuz (Highly Voted 🖬) 10 months, 1 week ago

Answer is A Amazon S3 Glacier: Expedited Retrieval: Provides access to data within 1-5 minutes. Standard Retrieval: Provides access to data within 3-5 hours. Bulk Retrieval: Provides access to data within 5-12 hours. Amazon S3 Glacier Deep Archive: Standard Retrieval: Provides access to data within 12 hours. Bulk Retrieval: Provides access to data within 48 hours. upvoted 23 times

😑 👗 oayoade (Highly Voted 🗃) 9 months, 3 weeks ago

Selected Answer: C

All the "....after 7 days" options are wrong.

Before you transition objects to S3 Standard-IA or S3 One Zone-IA, you must store them for at least 30 days in Amazon S3 https://docs.aws.amazon.com/AmazonS3/latest/userguide/lifecycle-transition-general-considerations.html#:~:text=Minimum%20Days%20for%20Transition%20to%20S3%20Standard%2DIA%20or%20S3%20One%20Zone%2DIA upvoted 9 times

😑 🛔 Hades2231 9 months, 2 weeks ago

This is worth noticing! Glad I came across your comment 1 day before my test. upvoted 3 times

😑 🌲 Marco_St 5 months ago

so Could I ask is A or C for this question? I voted for A but it seems you had the same question in the exam and it was C? Thanks! I will attend the exam soon.

upvoted 1 times

😑 🌲 franbarberan 8 months, 2 weeks ago

the 7 days limitation is only if you want to move from s3 standart to S3 Standard-IA or S3 One Zone-IA, if you move to s3 glacier dont have this limitation, correct answer is A

upvoted 10 times

😑 📥 Linuslin (Most Recent 🕗 1 month ago

Selected Answer: A

C is incorrect. Unsupported lifecycle transitions Amazon S3 does not support any of the following lifecycle transitions. You can't transition from the following:

Any storage class to the S3 Standard storage class. Any storage class to the Reduced Redundancy Storage (RRS) class. The S3 Intelligent-Tiering storage class to the S3 Standard-IA storage class. The S3 One Zone-IA storage class to the S3 Intelligent-Tiering, S3 Standard-IA, or S3 Glacier Instant Retrieval storage classes.

https://docs.aws.amazon.com/AmazonS3/latest/userguide/lifecycle-transition-general-considerations.html upvoted 2 times

⊟ ▲ awsgeek75 5 months ago

Selected Answer: A

BC are lifecycle with tiering and infrequent access which are not required here. D is deep archive and can take hours to retrieve so it is not suitable A is cheapest workable option

upvoted 3 times

😑 🌡 Marco_St 5 months ago

Selected Answer: A

frequent access pattern- Standard. upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: A

Not B - More expensive than A Not C - Intelligent-Tiering moves only objects of at least 128 KB Not D - Glacier Deep Archive takes more than 6 hours to retrieve upvoted 3 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Any option with S3 Intelligent-Tiering is out, this is only required when the access patterns are unknown. From the question the access patterns are well known, enough to tie the frequently accessed reports to S3 standard and transition them to S3 glacier after 7days. upvoted 3 times

😑 🌲 iwannabeawsgod 7 months, 4 weeks ago

Selected Answer: A

its A for me upvoted 2 times

□ ▲ Carlos_0 8 months, 1 week ago

Selected Answer: A

Tiene mas sentido upvoted 1 times

😑 💄 sl2man 8 months, 1 week ago

Selected Answer: A

Option A Amazon S3 Glacier Standard Retrieval: Provides access to data within 3-5 hours. upvoted 3 times

😑 👗 Ramdi1 8 months, 2 weeks ago

Selected Answer: A

most cost effective has to be glacier so A With C it is using intelligence tiering which is 30 days minimum from what I have read, I may be wrong on how I read that.

upvoted 1 times

😑 🏝 tabbyDolly 8 months, 3 weeks ago

answer A

frequent access during the first week -> keeps data in s3 standard for 7 days stored for several year and retrievable within 6 hours -> can be moved to s3 glacier for data archive purpose upvoted 1 times

😑 🌲 anikety123 9 months ago

Selected Answer: A

Its A. Data cannot be transitioned from Intelligent Tiering to Standard IA https://docs.aws.amazon.com/AmazonS3/latest/userguide/lifecycle-transition-general-considerations.html upvoted 2 times

😑 👗 MII1975 9 months, 1 week ago

Selected Answer: C

Check Oayoade comment, before transition, 30 days in S3 the files have to be, young padawans upvoted 2 times

😑 👗 ssa03 9 months, 1 week ago

Selected Answer: C

Correct Answer: C upvoted 1 times

😑 🌢 ersin13 10 months, 1 week ago

I agree with zjcorpuz the answer is A upvoted 1 times

🖯 🌲 D10SJoker 10 months, 1 week ago

Question #552

Topic 1

A company needs to optimize the cost of its Amazon EC2 instances. The company also needs to change the type and family of its EC2 instances every 2-3 months.

What should the company do to meet these requirements?

A. Purchase Partial Upfront Reserved Instances for a 3-year term.

B. Purchase a No Upfront Compute Savings Plan for a 1-year term.

C. Purchase All Upfront Reserved Instances for a 1-year term.

D. Purchase an All Upfront EC2 Instance Savings Plan for a 1-year term.

Correct Answer: D

Community vote distribution

B (100%)

😑 👗 Guru4Cloud (Highly Voted 🐽 9 months, 3 weeks ago

Selected Answer: B

The key considerations are:

The company needs flexibility to change EC2 instance types and families every 2-3 months. This rules out Reserved Instances which lock you into an instance type and family for 1-3 years.

A Compute Savings Plan allows switching instance types and families freely within the term as needed. No Upfront is more flexible than All Upfron A 1-year term balances commitment and flexibility better than a 3-year term given the company's changing needs.

With No Upfront, the company only pays for usage monthly without an upfront payment. This optimizes cost. upvoted 9 times

😑 👗 TariqKipkemei (Most Recent 🕐) 6 months, 3 weeks ago

Selected Answer: B

Only Compute Savings Plan allows you to change instance family. upvoted 3 times

😑 🌲 avkya 10 months ago

Selected Answer: B

" needs to change the type and family of its EC2 instances". that means B I think. upvoted 2 times

😑 💄 Kiki_Pass 10 months, 1 week ago

Selected Answer: B

"EC2 Instance Savings Plans give you the flexibility to change your usage between instances WITHIN a family in that region. " https://aws.amazon.com/savingsplans/compute-pricing/

upvoted 4 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: B

B is the right answer upvoted 2 times

Bmaster 10 months, 2 weeks ago

B is correct.. 'EC2 Instance Savings Plans' can't change 'family'. upvoted 1 times

😑 💄 Josantru 10 months, 2 weeks ago

Correct B. To change 'Family' always Compute saving plan, right? upvoted 3 times Which solution will meet these requirements with the LEAST operational overhead?

- A. Configure Amazon Macie in each Region. Create a job to analyze the data that is in Amazon S3.
- B. Configure AWS Security Hub for all Regions. Create an AWS Config rule to analyze the data that is in Amazon S3.
- C. Configure Amazon Inspector to analyze the data that is in Amazon S3.
- D. Configure Amazon GuardDuty to analyze the data that is in Amazon S3.

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: A

The key reasons are:

Amazon Macie is designed specifically for discovering and classifying sensitive data like PII in S3. This makes it the optimal service to use. Macie can be enabled directly in the required Regions rather than enabling it across all Regions which is unnecessary. This minimizes overhead. Macie can be set up to automatically scan the specified S3 buckets on a schedule. No need to create separate jobs. Security Hub is for security monitoring across AWS accounts, not specific for PII discovery. More overhead than needed. Inspector and GuardDuty are not built for PII discovery in S3 buckets. They provide broader security capabilities.

upvoted 5 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: A

PII = Macie Security Hub: Organisation security and logging not for PII Inspector: Infra vulnerability management GuardDuty: Network protection upvoted 3 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Amazon Macie = PII upvoted 1 times

😑 🌲 mrsoa 10 months, 1 week ago

Selected Answer: A

AWS Macie = PII detection upvoted 3 times

😑 🌲 Deepakin96 10 months, 2 weeks ago

Selected Answer: A

Amazon Macie will identify all PII

upvoted 2 times

A company's SAP application has a backend SQL Server database in an on-premises environment. The company wants to migrate its on-premises application and database server to AWS. The company needs an instance type that meets the high demands of its SAP database. On-premises performance data shows that both the SAP application and the database have high memory utilization.

Which solution will meet these requirements?

A. Use the compute optimized instance family for the application. Use the memory optimized instance family for the database.

B. Use the storage optimized instance family for both the application and the database.

C. Use the memory optimized instance family for both the application and the database.

D. Use the high performance computing (HPC) optimized instance family for the application. Use the memory optimized instance family for the database.

Correct Answer: C

Community vote distribution

C (100%)

😑 🛔 Guru4Cloud (Highly Voted 🐽) 9 months, 3 weeks ago

Selected Answer: C

Since both the app and database have high memory needs, the memory optimized family like R5 instances meet those requirements well. Using the same instance family simplifies management and operations, rather than mixing instance types. Compute optimized instances may not provide enough memory for the SAP app's needs. Storage optimized is overkill for the database's compute and memory needs. HPC is overprovisioned for the SAP app.

upvoted 13 times

😑 💄 TariqKipkemei (Most Recent 🕐) 6 months, 3 weeks ago

Selected Answer: C

Use the memory optimized instance family for both the application and the database upvoted 2 times

😑 🌲 manOfThePeople 9 months, 2 weeks ago

High memory utilization = memory optimized. C is the answer upvoted 4 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: C

I thyink its C upvoted 2 times

A solutions architect needs to design a secure solution to establish a connection between the EC2 instances and the SQS queue.

Which solution will meet these requirements?

A. Implement an interface VPC endpoint for Amazon SQS. Configure the endpoint to use the private subnets. Add to the endpoint a security group that has an inbound access rule that allows traffic from the EC2 instances that are in the private subnets.

B. Implement an interface VPC endpoint for Amazon SQS. Configure the endpoint to use the public subnets. Attach to the interface endpoint a VPC endpoint policy that allows access from the EC2 instances that are in the private subnets.

C. Implement an interface VPC endpoint for Amazon SQS. Configure the endpoint to use the public subnets. Attach an Amazon SQS access policy to the interface VPC endpoint that allows requests from only a specified VPC endpoint.

D. Implement a gateway endpoint for Amazon SQS. Add a NAT gateway to the private subnets. Attach an IAM role to the EC2 instances that allows access to the SQS queue.

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: A

An interface VPC endpoint is a private way to connect to AWS services without having to expose your VPC to the public internet. This is the most secure way to connect to Amazon SQS from the private subnets.

Configuring the endpoint to use the private subnets ensures that the traffic between the EC2 instances and the SQS queue is only within the VPC. This helps to protect the traffic from being intercepted by a malicious actor.

Adding a security group to the endpoint that has an inbound access rule that allows traffic from the EC2 instances that are in the private subnets further restricts the traffic to only the authorized sources. This helps to prevent unauthorized access to the SQS queue. upvoted 8 times

😑 🆀 Bmaster (Highly Voted 🖬) 10 months, 2 weeks ago

A is correct.

B,C: 'Configuring endpoints to use public subnets' --> Invalid D: No Gateway Endpoint for SQS. upvoted 5 times

😑 🌲 awsgeek75 (Most Recent 🕗 5 months ago

Selected Answer: A

BC are using public subnets so not useful for security

D uses gateway endpoint which is not useful to connect to SQS

A: https://docs.aws.amazon.com/vpc/latest/privatelink/aws-services-privatelink-support.html upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Sorry, the link is wrong for A. Please ignore it!

upvoted 1 times

😑 🌲 ShawnTang 6 months ago

A seems the most suitable, but security group can't add to the endpoint derectly, right? upvoted 1 times

😑 🌡 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Answer is A

upvoted 1 times

😑 🌡 TariqKipkemei 6 months, 3 weeks ago

Interface endpoints enable connectivity to services over AWS PrivateLink. It is a collection of one or more elastic network interfaces with a private I address that serves as an entry point for traffic destined to a supported service.

Implement an interface VPC endpoint for Amazon SQS. Configure the endpoint to use the private subnets. Add to the endpoint a security group that has an inbound access rule that allows traffic from the EC2 instances that are in the private subnets.

upvoted 1 times

😑 💄 potomac 7 months, 2 weeks ago

A is correct upvoted 1 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: A

I think its A upvoted 1 times

A solutions architect is using an AWS CloudFormation template to deploy a three-tier web application. The web application consists of a web tier and an application tier that stores and retrieves user data in Amazon DynamoDB tables. The web and application tiers are hosted on Amazon EC2 instances, and the database tier is not publicly accessible. The application EC2 instances need to access the DynamoDB tables without exposing API credentials in the template.

What should the solutions architect do to meet these requirements?

A. Create an IAM role to read the DynamoDB tables. Associate the role with the application instances by referencing an instance profile.

B. Create an IAM role that has the required permissions to read and write from the DynamoDB tables. Add the role to the EC2 instance profile, and associate the instance profile with the application instances.

C. Use the parameter section in the AWS CloudFormation template to have the user input access and secret keys from an already-created IAM user that has the required permissions to read and write from the DynamoDB tables.

D. Create an IAM user in the AWS CloudFormation template that has the required permissions to read and write from the DynamoDB tables. Use the GetAtt function to retrieve the access and secret keys, and pass them to the application instances through the user data.

Correct Answer: *B*

Community vote distribution

B (87%)

13%

😑 💄 upliftinghut 4 months, 2 weeks ago

Selected Answer: B

best practice is using IAM role for database access. From app to DB = > need both read & write, only B meets these 2 upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: B

Application "stores and retrieves" data in DynamoDB while A grants only access "to read". upvoted 2 times

🖃 🌲 Nisarg2121 7 months, 3 weeks ago

Selected Answer: B

B is correct, A total wrong because "read the DynamoDB tables", so what about write in database. upvoted 3 times

😑 📥 darekw 9 months, 3 weeks ago

question says: ...application tier stores and retrieves user data in Amazon DynamoDB tables... so it needs read and write access A) is only read access B) seems to be the right answer upvoted 1 times

😑 🌢 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Option B is the correct approach to meet the requirements:

Create an IAM role with permissions to access DynamoDB Add the IAM role to an EC2 Instance Profile Associate the Instance Profile with the application EC2 instances This allows the instances to assume the IAM role to obtain temporary credentials to access DynamoDB. upvoted 2 times

😑 🌲 anibinaadi 10 months ago

Explanation. Both A and B seems suitable. But Option A is incorrect because it says "Associate the role with the application instances by referencing an instance profile". Which just only a Part of the solution.

In API/AWS CLI following steps are required to complete the Role-> instance profile association-> to instance.

1. Create an IAM Role

2. add-role-to-instance-profile (aws iam add-role-to-instance-profile --role-name S3Access --instance-profile-name Webserver)

3. associate-iam-instance-profile (aws ec2 associate-iam-instance-profile --instance-id i-123456789abcde123 --iam-instance-profile Name=admin role)

hence Option B is correct.

upvoted 2 times

😑 🏝 DannyKang5649 10 months ago

Selected Answer: B

Why "No read and write" ? The question clearly states that application tier STORE and RETRIEVE the data from DynamoDB. Which means write and read... I think answer should be B

upvoted 2 times

😑 👗 xyb 10 months, 1 week ago

Selected Answer: B

https://www.examtopics.com/discussions/amazon/view/80755-exam-aws-certified-solutions-architect-associate-saa-c02/ upvoted 1 times

😑 👗 Ale1973 10 months, 1 week ago

Selected Answer: B

My rationl: Option A is wrong because the scenario says "stores and retrieves user data in Amazon DynamoDB tables", STORES and RETRIVE, if you set a role to READ, you can write on DinamoDB database upvoted 1 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: A

AAAAAAAA upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

No because it grants only read access upvoted 2 times

😑 💄 kangho 10 months, 1 week ago

Selected Answer: A A is correct

upvoted 1 times

upvoted 2 times

pentium75 5 months, 1 week ago
 No because it grants only read access

Which solution will meet these requirements?

A. Use Amazon Athena to process the S3 data. Use AWS Glue with the Amazon Redshift data to enrich the S3 data.

B. Use Amazon EMR to process the S3 data. Use Amazon EMR with the Amazon Redshift data to enrich the S3 data.

C. Use Amazon EMR to process the S3 data. Use Amazon Kinesis Data Streams to move the S3 data into Amazon Redshift so that the data can be enriched.

D. Use AWS Glue to process the S3 data. Use AWS Lake Formation with the Amazon Redshift data to enrich the S3 data.

Correct Answer: D			
Community vote distribution B (71%)	A (29%)		
🗆 🛔 Guru4Cloud (Highly Voted 🖬) 9 months, 3	weeks ago		

Selected Answer: B

Option B is the correct solution that meets the requirements:

Use Amazon EMR to process the semi-structured data in Amazon S3. EMR provides a managed Hadoop framework optimized for processing large datasets in S3.

EMR supports parallel data processing across multiple nodes to speed up the processing.

EMR can integrate directly with Amazon Redshift using the EMR-Redshift integration. This allows querying the Redshift data from EMR and joining it with the S3 data.

This enables enriching the semi-structured S3 data with the information stored in Redshift

upvoted 14 times

😑 👗 zjcorpuz (Highly Voted 🖬 10 months, 1 week ago

By combining AWS Glue and Amazon Redshift, you can process the semistructured data in parallel using Glue ETL jobs and then store the processed and enriched data in a structured format in Amazon Redshift. This approach allows you to perform complex analytics efficiently and at scale.

upvoted 8 times

😑 💄 upliftinghut Most Recent 🕗 4 months, 2 weeks ago

Selected Answer: B

D: not relevant, data is semistructured and Glue is more batch than stream data

A: not correct, Athena is for querying data

B & C look ok but C is out => redundant with Kinesis data stream; EMR already processed data as input into Redshift for parallel processing

Only B is most logical upvoted 3 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: B

Key requirement: parallel data processing parallel data processing is EMR (Kind of Apache Hadoop) so it only leave B and C

C is Kinesis to Redshift which is pointless logic here B EMR for S3 and EMR for Redshift gives maximum parallel processing here upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: B

A has a pitfall, "use Amazon Athena to PROCESS the data". With Athena you can query, not process, data. C is wrong because Kinesis has no place here. D is wrong because it does not process the Redshift data, and Glue does ETL, not analyze

Thus it's B. EMR can use semi-structured data from from S3 and structured data from Redshift and is ideal for "parallel data processing" of "large amounts" of data.

upvoted 4 times

😑 🌲 aws94 6 months ago

Selected Answer: B

large amount of data + parallel data processing = EMR

upvoted 1 times

😑 🌲 Wuhao 6 months ago

Selected Answer: A

Amazon Athena is an interactive query service that makes it easy to analyze data directly in Amazon Simple Storage Service (Amazon S3) using standard SQL.

upvoted 1 times

😑 🏝 pentium75 5 months, 1 week ago

Y, but A says "process", not "query" data with Athena. upvoted 1 times

😑 🌲 SHAAHIBHUSHANAWS 6 months, 1 week ago

Selected Answer: D

Glue use apache pyspark cluster for parallel processing. EMR or Glue are possible options. Glue is serverless so better use this plus pyspark is in memory parallel processing.

upvoted 1 times

😑 💄 aragornfsm 6 months, 2 weeks ago

i think a is correct
semistructured data ==> Athena
upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Hadoop [as used by EMR] helps you turn petabytes of un-structured or semi-structured data into useful insights"

https://aws.amazon.com/emr/features/hadoop/ upvoted 1 times

😑 💄 riyasara 6 months, 2 weeks ago

Athena is not designed for parallel data processing. So it's B upvoted 2 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

(Selected Answer: A) Answer is A upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: B

From this documentation looks like EMR cannot interface with S3. https://aws.amazon.com/emr/

I will settle with option A. upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Of course EMR can access S3

https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-plan-file-systems.html upvoted 1 times

😑 💄 bogobob 6 months, 4 weeks ago

Selected Answer: B

For those answering A, AWS Glue can directly query S3, it can't use Athena as a source of data. The questions say the Redshift data should be user to "enrich" which means thats the redshift data needs to be "added" to the s3 data. A doesn't allow that.

upvoted 1 times

😑 🌲 hungta 6 months, 4 weeks ago

Selected Answer: B

Choose option B.

Option A is not correct. Amazon Athena is suitable for querying data directly from S3 using SQL and allows parallel processing of S3 data. AWS Glue can be used for data preparation and enrichment but might not directly integrate with Amazon Redshift for enrichment. upvoted 1 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: A

Athena and Redshift both do SQL query upvoted 1 times

😑 🌲 Sab123 8 months, 1 week ago

Selected Answer: A

semi-structure supported by Athena not by EMR

upvoted 4 times

😑 🌲 pentium75 5 months, 1 week ago

"Hadoop helps you turn petabytes of un-structured or semi-structured data into useful insights about your applications or users."

https://aws.amazon.com/emr/features/hadoop/?nc1=h_ls upvoted 1 times

😑 💄 JKevin778 8 months, 2 weeks ago

Selected Answer: A athena for s3 upvoted 1 times

A company has two VPCs that are located in the us-west-2 Region within the same AWS account. The company needs to allow network traffic between these VPCs. Approximately 500 GB of data transfer will occur between the VPCs each month.

What is the MOST cost-effective solution to connect these VPCs?

A. Implement AWS Transit Gateway to connect the VPCs. Update the route tables of each VPC to use the transit gateway for inter-VPC communication.

B. Implement an AWS Site-to-Site VPN tunnel between the VPCs. Update the route tables of each VPC to use the VPN tunnel for inter-VPC communication.

C. Set up a VPC peering connection between the VPCs. Update the route tables of each VPC to use the VPC peering connection for inter-VPC communication.

D. Set up a 1 GB AWS Direct Connect connection between the VPCs. Update the route tables of each VPC to use the Direct Connect connection for inter-VPC communication.

Correct Answer: C

Community vote distribution

😑 🌢 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: C

A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them using private IPv4 addresses or IPv6 addresses. Instances in either VPC can communicate with each other as if they are within the same network. You can create a VP(peering connection between your own VPCs, or with a VPC in another AWS account. The VPCs can be in different Regions (also known as an inter-Region VPC peering connection).

https://docs.aws.amazon.com/vpc/latest/peering/what-is-vpc-peering.html#:~:text=A-,VPC%20peering,-connection%20is%20a upvoted 2 times

E & BrijMohan08 9 months, 2 weeks ago

Selected Answer: C

Transit Gateway network peering. VPC Peering to peer 2 or more VPC in the same region. upvoted 4 times

C (100%)

😑 🏝 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

The key reasons are:

VPC peering provides private connectivity between VPCs without using public IP space.
Data transferred between peered VPCs is free as long as they are in the same region.
500 GB/month inter-VPC data transfer fits within peering free tier.
Transit Gateway (Option A) incurs hourly charges plus data transfer fees. More costly than peering.
Site-to-Site VPN (Option B) incurs hourly charges and data transfer fees. More expensive than peering.
Direct Connect (Option D) has high hourly charges and would be overkill for this use case.
upvoted 4 times

😑 上 mrsoa 10 months, 1 week ago

Selected Answer: C

VPC peering is the most cost-effective solution upvoted 1 times

😑 🌲 Deepakin96 10 months, 2 weeks ago

Selected Answer: C

Communicating with two VPC in same account = VPC Peering upvoted 1 times

😑 🌲 luiscc 10 months, 2 weeks ago

Selected Answer: C

C is the correct answer.

VPC peering is the most cost-effective way to connect two VPCs within the same region and AWS account. There are no additional charges for VPC peering beyond standard data transfer rates.

Transit Gateway and VPN add additional hourly and data processing charges that are not necessary for simple VPC peering.

Direct Connect provides dedicated network connectivity, but is overkill for the relatively low inter-VPC data transfer needs described here. It has high fixed costs plus data transfer rates.

For occasional inter-VPC communication of moderate data volumes within the same region and account, VPC peering is the most cost-effective solution. It provides simple private connectivity without transfer charges or network appliances. upvoted 4 times

Question #559

Topic 1

A company hosts multiple applications on AWS for different product lines. The applications use different compute resources, including Amazon EC2 instances and Application Load Balancers. The applications run in different AWS accounts under the same organization in AWS Organizations across multiple AWS Regions. Teams for each product line have tagged each compute resource in the individual accounts.

The company wants more details about the cost for each product line from the consolidated billing feature in Organizations.

Which combination of steps will meet these requirements? (Choose two.)

A. Select a specific AWS generated tag in the AWS Billing console.

B. Select a specific user-defined tag in the AWS Billing console.

C. Select a specific user-defined tag in the AWS Resource Groups console.

D. Activate the selected tag from each AWS account.

E. Activate the selected tag from the Organizations management account.

Correct Answer: *BE*

Community vote distribution

BE (100%)

😑 🛔 Guru4Cloud (Highly Voted 🐽) 9 months, 3 weeks ago

Selected Answer: BE

The reasons are:

User-defined tags were created by each product team to identify resources. Selecting the relevant tag in the Billing console will group costs. The tag must be activated from the Organizations management account to consolidate billing across all accounts. AWS generated tags are predefined by AWS and won't align to product lines.

Resource Groups (Option C) helps manage resources but not billing.

Activating the tag from each account (Option D) is not needed since Organizations centralizes billing.

upvoted 8 times

E Spotomac Most Recent (2) 7 months, 1 week ago

Selected Answer: BE

Your user-defined cost allocation tags represent the tag key, which you activate in the Billing console. upvoted 1 times

😑 👗 mrsoa 10 months, 1 week ago

Selected Answer: BE

BE BE BE BE

upvoted 1 times

😑 🌲 Kiki_Pass 10 months, 1 week ago

Selected Answer: BE

"Only a management account in an organization and single accounts that aren't members of an organization have access to the cost allocation tags manager in the Billing and Cost Management console." https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/custom-tags.html upvoted 2 times The solutions architect needs a solution that will identify any changes to the OU hierarchy. The solution also needs to notify the company's operations team of any changes.

Which solution will meet these requirements with the LEAST operational overhead?

A. Provision the AWS accounts by using AWS Control Tower. Use account drift notifications to identify the changes to the OU hierarchy.

B. Provision the AWS accounts by using AWS Control Tower. Use AWS Config aggregated rules to identify the changes to the OU hierarchy.

C. Use AWS Service Catalog to create accounts in Organizations. Use an AWS CloudTrail organization trail to identify the changes to the OU hierarchy.

D. Use AWS CloudFormation templates to create accounts in Organizations. Use the drift detection operation on a stack to identify the changes to the OU hierarchy.

Correct Answer: A

Community vote distribution

A (85%)

B (15%)

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: A

The key advantages you highlight of Control Tower are convincing:

Fully managed service simplifies multi-account setup. Built-in account drift notifications detect OU changes automatically. More scalable and less complex than Config rules or CloudTrail. Better security and compliance guardrails than custom options. Lower operational overhead compared to other solution upvoted 10 times

Bmaster (Highly Voted 🖬 10 months, 2 weeks ago

A is correct.

https://docs.aws.amazon.com/controltower/latest/userguide/what-is-control-tower.html https://docs.aws.amazon.com/controltower/latest/userguide/prevention-and-notification.html upvoted 6 times

😑 🛔 chickenmf (Most Recent 🕗) 3 months ago

Selected Answer: B

AWS Config helps you maintain a detailed inventory of your resources and their configurations, track changes over time, and ensure compliance with your organization's policies and industry regulations. upvoted 2 times

😑 🏝 chickenmf 3 months ago

Furthermore, AWS Config Aggregated Rules are a feature within AWS Config that enables you to evaluate compliance with desired configurations or compliance standards across multiple AWS accounts and regions. They are particularly useful in scenarios where you want to enforce consistent rules and compliance checks across an entire organization with multiple AWS accounts. upvoted 1 times

😑 🌲 chickenmf 3 months ago

NVM - This is such a stupid question lol changing my answer to A due to the following: Account drift notifications in AWS are a feature provided by AWS Control Tower. These notifications help organizations identify and respond to changes made to an AWS account that deviate from the established baseline configuration created during the initial setup by AWS Control Tower. Drift refers to any configuration changes that have been made to an AWS account after it was provisioned by Control Tower. upvoted 2 times

😑 💄 Avyay 3 months ago

This was in my exam today..l selected Answer A upvoted 2 times

😑 💄 chickenmf 3 months ago

what percentage of all these questions would you say were in the exam? upvoted 1 times

😑 💄 wizcloudifa 1 month, 1 week ago

I read in one of the earlier questions, its around 75%, someone who gave the exam said so upvoted 1 times

😑 🌲 SHAAHIBHUSHANAWS 6 months, 1 week ago

А

https://docs.aws.amazon.com/controltower/latest/userguide/drift.html upvoted 1 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: A

AWS Control Tower provides passive and active methods of drift monitoring protection for preventive controls. upvoted 1 times

😑 👗 darekw 9 months, 3 weeks ago

https://docs.aws.amazon.com/controltower/latest/userguide/prevention-and-notification.html upvoted 1 times

Which solution will meet these requirements with the LEAST amount of operational overhead?

A. Set up a DynamoDB Accelerator (DAX) cluster. Route all read requests through DAX.

B. Set up Amazon ElastiCache for Redis between the DynamoDB table and the web application. Route all read requests through Redis.

C. Set up Amazon ElastiCache for Memcached between the DynamoDB table and the web application. Route all read requests through Memcached.

D. Set up Amazon DynamoDB Streams on the table, and have AWS Lambda read from the table and populate Amazon ElastiCache. Route all read requests through ElastiCache.

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 mrsoa (Highly Voted 🖬) 10 months, 1 week ago

Selected Answer: A

A, because B,C and D contains Elasticache which required a heavy code changes, so more operational overhead upvoted 8 times

😑 💄 sandordini (Most Recent 🕗) 1 month, 3 weeks ago

Selected Answer: A

DAX to reduce latency upvoted 2 times

😑 👗 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

decrease latency when retrieving product details from the Amazon DynamoDB = Amazon DynamoDB Accelerator (DAX) upvoted 4 times

😑 🎍 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

The key reasons:

DAX provides a DynamoDB-compatible caching layer to reduce read latency. It is purpose-built for accelerating DynamoDB workloads. Using DAX requires minimal application changes - only read requests are routed through it. DAX handles caching logic automatically without needing complex integration code. ElastiCache Redis/Memcached (Options B/C) require more integration work to sync DynamoDB data. Using Lambda and Streams to populate ElastiCache (Option D) is a complex event-driven approach requiring ongoing maintenance. DAX plugs in seamlessly to accelerate DynamoDB with very little operational overhead upvoted 2 times

😑 💄 Deepakin96 10 months, 2 weeks ago

Selected Answer: A

DynamoDB = DAXupvoted 2 times

😑 🌡 Bmaster 10 months, 2 weeks ago only A upvoted 2 times

Which combination of steps should the solutions architect take to meet this requirement? (Choose two.)

- A. Create a route table entry for the endpoint.
- B. Create a gateway endpoint for DynamoDB.
- C. Create an interface endpoint for Amazon EC2.
- D. Create an elastic network interface for the endpoint in each of the subnets of the VPC.
- E. Create a security group entry in the endpoint's security group to provide access.

Correct Answer: AB			
Community vote distribution AB (69%)	BE (27%)	4%	

😑 🌲 ukivanlamlpi (Highly Voted 🖬) 10 months ago

Selected Answer: AB

https://docs.aws.amazon.com/vpc/latest/privatelink/vpc-endpoints-ddb.html upvoted 9 times

😑 👗 Guru4Cloud (Highly Voted 🗤) 9 months, 3 weeks ago

Selected Answer: BE

The reasons are:

A gateway endpoint for DynamoDB enables private connectivity between DynamoDB and the VPC. This allows EC2 instances to access DynamoDB APIs without traversing the internet.

A security group entry is needed to allow the EC2 instances access to the DynamoDB endpoint over the VPC.

An interface endpoint is used for services like S3 and Systems Manager, not DynamoDB.

Route table entries route traffic within a VPC but do not affect external connectivity.

Elastic network interfaces are not needed for gateway endpoints.

upvoted 8 times

😑 🌲 unbendable 7 months, 2 weeks ago

"The outbound rules for the security group for instances that access DynamoDB through the gateway endpoint must allow traffic to DynamoDB", https://docs.aws.amazon.com/vpc/latest/privatelink/vpc-endpoints-ddb.html The option however is talking about the security group of the endpoint upvoted 1 times

😑 🌲 osmk (Most Recent 🕑) 4 months, 2 weeks ago

AB https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/vpc-endpoints-dynamodb.html upvoted 2 times

😑 💄 upliftinghut 4 months, 2 weeks ago

Selected Answer: AB

C & D are both not relevant. D looks ok but DynamoDB doesn't go with security group, it only allows route table for VPC endpoint. Link here: https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/vpc-endpoints-dynamodb.html

upvoted 1 times

😑 🌲 upliftinghut 4 months, 2 weeks ago

Sorry, E not D. E looks ok but DynamoDB doesn't go with security group, it only allows route table for VPC endpoint. Link here: https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/vpc-endpoints-dynamodb.html upvoted 1 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

Selected Answer: AB

DynamoDB can only be connected via Gateway endpoint (just like S3) route table for connecting the VPC tor the endpoint So do B then A

C: interface endpoint for EC2 to what?D: ENI not applicable here for VPCE: Incomplete option as to access to what?upvoted 3 times

😑 🌲 theonlyhero 5 months ago

go through this video it will show the answer is AB https://www.youtube.com/watch?v=8FTnyhkIEvU upvoted 3 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: AB

Gateway Endpoint does not have an ENI, thus it has no security group. Instances have security groups and those must allow access to DynamoDB. upvoted 5 times

😑 🌲 aws94 6 months ago

Selected Answer: BE

A. Create a route table entry for the endpoint: This is not necessary, as the gateway endpoint itself automatically creates the required route table entries.

upvoted 2 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: AB

Create a gateway endpoint for DynamoDB then create a route table entry for the endpoint upvoted 2 times

😑 🌲 EdenWang 6 months, 3 weeks ago

Selected Answer: BE

upvoted 2 times

😑 🌲 cciesam 7 months ago

Selected Answer: AB

https://docs.aws.amazon.com/vpc/latest/privatelink/gateway-endpoints.html#vpc-endpoints-routing Traffic from your VPC to Amazon S3 or DynamoDB is routed to the gateway endpoint. Each subnet route table must have a route that sends traffic destined for the service to the gateway endpoint using the prefix list for the service.

upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: AB

You can access Amazon DynamoDB from your VPC using gateway VPC endpoints. After you create the gateway endpoint, you can add it as a targe in your route table for traffic destined from your VPC to DynamoDB. upvoted 2 times

😑 🌲 danielmakita 7 months, 2 weeks ago

It is A and B. Not E because security group does not span VPCs. upvoted 2 times

😑 🌲 iwannabeawsgod 7 months, 4 weeks ago

Selected Answer: AB

A and B for sure upvoted 3 times

😑 💄 loveaws 8 months, 1 week ago

B and D. upvoted 1 times

😑 💄 baba365 8 months, 2 weeks ago

Answer: E. Example Question #555 -

Implement an interface VPC endpoint for Amazon SQS. Configure the endpoint to use the private subnets. Add to the endpoint a security group that has an inbound access rule that allows traffic from the EC2 instances that are in the private subnets.

upvoted 3 times

😑 📥 theonlyhero 5 months ago

555 refers to the Interface endpoint not the Gateway endpoint upvoted 1 times

😑 🌲 Devsin2000 8 months, 2 weeks ago

Selected Answer: BE

A - incorrect, because "When you create a gateway endpoint, you select the VPC route tables for the subnets that you enable. The route is automatically added to each route table that you select."
 E- Security Group must allow the commincation
 upvoted 2 times

A company runs its applications on both Amazon Elastic Kubernetes Service (Amazon EKS) clusters and on-premises Kubernetes clusters. The company wants to view all clusters and workloads from a central location.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use Amazon CloudWatch Container Insights to collect and group the cluster information.

- B. Use Amazon EKS Connector to register and connect all Kubernetes clusters.
- C. Use AWS Systems Manager to collect and view the cluster information.

D. Use Amazon EKS Anywhere as the primary cluster to view the other clusters with native Kubernetes commands.

Community vote distribution	
B (92%) 8%	
ErnShm Highly Voted 🖬 9 months, 1 week ago	
В	
You can use Amazon EKS Connector to register and connect any conformant Kubernetes cluster After a cluster is connected, you can see the status, configuration, and workloads for that cluster feature to view connected clusters in Amazon EKS console, but you can't manage them. The Ama open source project on Github. For additional technical content, including frequently asked ques issues in Amazon EKS Connector	r in the Amazon EKS console. You can use this azon EKS Connector requires an agent that is an
The Amazon EKS Connector can connect the following types of Kubernetes clusters to Amazon E	EKS.
On-premises Kubernetes clusters	
Self-managed clusters that are running on Amazon EC2	
Managed clusters from other cloud providers	
upvoted 5 times	
awsgeek75 Most Recent ② 5 months ago	
Selected Answer: B	
https://docs.aws.amazon.com/eks/latest/userguide/eks-connector.html "You can use Amazon EKS Connector to register and connect any conformant Kubernetes cluster console. "	r to AWS and visualize it in the Amazon EKS
B is the right product for this.	
upvoted 2 times	
entium75 5 months, 1 week ago	
Selected Answer: B	

EKS Connector -> 'view clusters and workloads' as requested EKS Anywhere -> create and manage on-premises EKS clusters upvoted 2 times

E & SHAAHIBHUSHANAWS 6 months, 1 week ago

В

EKS connector helps to integrate multiple cluster with EKS console. EKS anywhere is Kubernetes Ditro cluster to be deployed on-prem. It is not for integrating with other cluster.

upvoted 1 times

😑 🏝 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: B

View all clusters and workloads (incl on-prem) from a central location = Amazon EKS Connector Create and operate Kubernetes clusters on your own infrastructure = Amazon EKS Anywhere

https://aws.amazon.com/eks/eks-anywhere/#:~:text=Amazon-,EKS%20Anywhere,-lets%20you%20create

https://docs.aws.amazon.com/eks/latest/userguide/eks-connector.html#:~:text=You%20can%20use-,Amazon%20EKS%20Connector,to%20register%20and

upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: B

lt is B

upvoted 1 times

😑 🌢 thainguyensunya 9 months, 2 weeks ago

Selected Answer: B

Definitely B.

"You can use Amazon EKS Connector to register and connect any conformant Kubernetes cluster to AWS and visualize it in the Amazon EKS console. After a cluster is connected, you can see the status, configuration, and workloads for that cluster in the Amazon EKS console. " https://docs.aws.amazon.com/eks/latest/userguide/eks-connector.html

upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

The key reasons:

EKS Connector allows registering external Kubernetes clusters (on-premises and otherwise) with Amazon EKS This provides a unified view and management of all clusters within the EKS console. EKS Connector handles keeping resources in sync across connected clusters. This centralized approach minimizes operational overhead compared to using separate tools. CloudWatch Container Insights (Option A) only provides metrics and logs, not cluster management. Systems Manager (Option C) is more general purpose and does not natively integrate with EKS. EKS Anywhere (Option D) would not provide a single pane of glass for external clusters. upvoted 3 times

😑 👗 RealMarcus 10 months ago

Amazon EKS Connector enables you to create and manage a centralized view of all your Kubernetes clusters, regardless of whether they are Amazon EKS clusters or on-premises Kubernetes clusters. It allows you to register these clusters with your Amazon EKS control plane, providing a unified management interface for all clusters.

upvoted 1 times

😑 💄 avkya 10 months ago

Selected Answer: B

You can use Amazon EKS Connector to register and connect any conformant Kubernetes cluster to AWS and visualize it in the Amazon EKS console After a cluster is connected, you can see the status, configuration, and workloads for that cluster in the Amazon EKS console. You can use this feature to view connected clusters in Amazon EKS console, but you can't manage them

upvoted 1 times

😑 🌲 ukivanlamlpi 10 months ago

Selected Answer: D

only D can connect to on-perm upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

No.

"The Amazon EKS Connector can connect the following types of Kubernetes clusters to Amazon EKS.

On-premises Kubernetes clusters"

https://aws.amazon.com/de/eks/eks-anywhere/ upvoted 1 times

😑 🏝 pentium75 5 months, 1 week ago

Wrong link, statement is from https://docs.aws.amazon.com/eks/latest/userguide/eks-connector.html upvoted 1 times

😑 📥 mrsoa 10 months, 1 week ago

seems B

https://docs.aws.amazon.com/eks/latest/userguide/eks-connector.html upvoted 4 times

Bmaster 10 months, 2 weeks ago Only B

https://docs.aws.amazon.com/eks/latest/userguide/eks-connector.html upvoted 2 times Which solution meets these requirements?

A. Store sensitive data in an Amazon Elastic Block Store (Amazon EBS) volume. Use EBS encryption to encrypt the data. Use an IAM instance role to restrict access.

B. Store sensitive data in Amazon RDS for MySQL. Use AWS Key Management Service (AWS KMS) client-side encryption to encrypt the data.

C. Store sensitive data in Amazon S3. Use AWS Key Management Service (AWS KMS) server-side encryption to encrypt the data. Use S3 bucket policies to restrict access.

D. Store sensitive data in Amazon FSx for Windows Server. Mount the file share on application servers. Use Windows file permissions to restrict access.

Correct Answer: *B*

Community vote distribution

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

B (100%)

Selected Answer: B

The key reasons are:

RDS MySQL provides a fully managed database service well suited for an ecommerce application.

AWS KMS client-side encryption allows encrypting sensitive data before it hits the database. The data remains encrypted at rest.

This protects sensitive customer data from database admins and privileged users.

EBS encryption (Option A) protects data at rest but not in use. IAM roles don't prevent admin access.

S3 (Option C) encrypts data at rest on the server side. Bucket policies don't restrict admin access.

FSx file permissions (Option D) don't prevent admin access to unencrypted data.

upvoted 7 times

😑 👗 pentium75 (Highly Voted 🖬) 5 months, 1 week ago

Selected Answer: B

A, C and D would allow the administrator of the storage to access the data. Besides, it is data about "purchase transactions" which is usually stored in a transactional database (such as RDS for MySQL), not in a file or object storage. upvoted 6 times

😑 💄 sidharthwader 1 month ago

Good thought purchase transactions I had missed that part upvoted 1 times

E & SHAAHIBHUSHANAWS Most Recent (2) 6 months, 1 week ago

В

I want to go with B as question is for database administrator. Also client key encryption is possible in code and KMS can be used for encryption bu not using KMS keys. Encrypted data available in DB is of no use to DB admin. upvoted 1 times

🖃 👗 riyasara 6 months, 2 weeks ago

Answer is option C. option B is not ideal because Amazon RDS for MySQL is a relational database service that is optimized for structured data, not for storing sensitive customer information. Moreover, by using client-side encryption with AWS KMS, you need to encrypt and decrypt the data in your application code, which increases the risk of exposing your data in transit or at rest. You also need to manage the encryption keys yourself, which adds complexity and overhead to your application.

upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

"optimized for structured data, not for storing sensitive customer information" ... Data related to "purchase transactions" is usually structured; that it contains "sensitive customer information" doesn't change the structured nature.

upvoted 3 times

⊟ ▲ awsgeek75 5 months ago

eCommerce data and transaction data are ideal for RDS which, when encrypted, is secure even from the DBA. upvoted 1 times

😑 🌲 wsdasdasdqwdaw 7 months, 3 weeks ago

I would go for B, because RDS (database admins), but I would like to see as well encryption at rest as well, not only in transit.

upvoted 1 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: B

Using client-side encryption we can protect specific fields and guarantee only decryption if the client has access to an API key, we can protect specific fields even from database admins

upvoted 2 times

😑 💄 D10SJoker 10 months, 1 week ago

Selected Answer: B

For me it's B because of "client-side encryption to encrypt the data" upvoted 1 times

😑 🌲 h8er 10 months, 1 week ago

keyword - database administrators upvoted 4 times

😑 🛔 Kiki_Pass 10 months, 1 week ago

Selected Answer: B

"even from database administrators" -> "Client Side encryption" upvoted 3 times

😑 🛔 Bmaster 10 months, 2 weeks ago

My choice is B upvoted 3 times

Which migration solution will meet these requirements?

A. Use native MySQL tools to migrate the database to Amazon RDS for MySQL. Configure elastic storage scaling.

B. Migrate the database to Amazon Redshift by using the mysqldump utility. Turn on Auto Scaling for the Amazon Redshift cluster.

C. Use AWS Database Migration Service (AWS DMS) to migrate the database to Amazon Aurora. Turn on Aurora Auto Scaling.

D. Use AWS Database Migration Service (AWS DMS) to migrate the database to Amazon DynamoDB. Configure an Auto Scaling policy.

Correct Answer: C

Community vote distribution

C (100%)

😑 🛔 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: C

The key reasons are:

DMS provides an easy migration path from MySQL to Aurora while minimizing downtime. Aurora is a MySQL-compatible relational database service that will maintain compatibility with the company's applications. Aurora Auto Scaling allows the database to automatically scale up and down based on demand to handle increased workloads. RDS MySQL (Option A) does not scale as well as the Aurora architecture. Redshift (Option B) is for analytics, not transactional data, and may not be compatible. DynamoDB (Option D) is a NoSQL datastore and lacks MySQL compatibility. upvoted 7 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: C

A is wrong as you cannot use native MySQL tools for migration. Happy to be corrected though!

B Redshift is not compatible with MySQL

D is DynamoDB

C Aurora MySQL is compatible and supports auto scaling

upvoted 2 times

😑 🆀 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: C

on-premises MySQL database, transactional data, maintain compatibility, scale automatically = Amazon Aurora migrating the database to the AWS Cloud = AWS Database Migration Service upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: C

Aurora is a MySQL-compatible relational database service upvoted 1 times

😑 🚢 mrsoa 10 months, 1 week ago

Selected Answer: C

Aurora is better in autoscaling then RDS upvoted 1 times

😑 🌲 Bmaster 10 months, 2 weeks ago

C is correct

A is incorrect. RDS for MySQL does not scale automatically during periods of increased demand. B is incorrect. Redshift is used for data sharing purposes. D is incorrect. you muse change application codes. upvoted 1 times

Eminenza22 10 months, 2 weeks ago Amazon RDS now supports Storage Auto Scaling upvoted 2 times A company runs multiple Amazon EC2 Linux instances in a VPC across two Availability Zones. The instances host applications that use a hierarchical directory structure. The applications need to read and write rapidly and concurrently to shared storage.

What should a solutions architect do to meet these requirements?

A. Create an Amazon S3 bucket. Allow access from all the EC2 instances in the VPC.

B. Create an Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system from each EC2 instance.

C. Create a file system on a Provisioned IOPS SSD (io2) Amazon Elastic Block Store (Amazon EBS) volume. Attach the EBS volume to all the EC2 instances.

D. Create file systems on Amazon Elastic Block Store (Amazon EBS) volumes that are attached to each EC2 instance. Synchronize the EBS volumes across the different EC2 instances.

Correct Answer: A

Community vote distribution

8%

😑 👗 Josantru | Highly Voted 🖬] 10 months, 2 weeks ago

B (92%)

Correct B.

How is Amazon EFS different than Amazon S3?

Amazon EFS provides shared access to data using a traditional file sharing permissions model and hierarchical directory structure via the NFSv4 protocol. Applications that access data using a standard file system interface provided through the operating system can use Amazon EFS to take advantage of the scalability and reliability of file storage in the cloud without writing any new code or adjusting applications.

Amazon S3 is an object storage platform that uses a simple API for storing and accessing data. Applications that do not require a file system structure and are designed to work with object storage can use Amazon S3 as a massively scalable, durable, low-cost object storage solution. upvoted 11 times

😑 💄 zinabu (Most Recent 🕑) 2 months ago

hierarchical structure = EFS upvoted 2 times

😑 📥 pentium75 5 months, 1 week ago

Selected Answer: B

Not A because S3 does not allow a "hierarchical directory structure" Not C because Multi-attach does not work "across two Availability Zones" Not D because we need "shared", not synchronized, storage. upvoted 1 times

😑 💄 TarigKipkemei 6 months, 3 weeks ago

Selected Answer: B

hierarchical directory structure, read and write rapidly and concurrently to shared storage = Amazon Elastic File System upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: B

Amazon EFS simultaneously supports on-premises servers using a traditional file permissions model, file locking, and hierarchical directory structure through the NFS v4 protocol.

upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

The key reasons:

EFS provides a scalable, high performance NFS file system that can be concurrently accessed from multiple EC2 instances. It supports the hierarchical directory structure needed by the applications.

EFS is elastic, growing and shrinking automatically as needed.

It can be accessed from instances across AZs, meeting the shared storage requirement.

S3 object storage (option A) lacks the file system semantics needed by the apps.

EBS volumes (options C and D) are attached to a single instance and would require replication and syncing to share across instances. EFS is purpose-built for this use case of a shared file system across Linux instances and aligns best with the performance, concurrency, and availability needs.

upvoted 3 times

😑 💄 barracouto 10 months ago

Selected Answer: B

Going with b upvoted 1 times

😑 🌲 Bennyboy789 10 months ago

Selected Answer: B

C and D involve using Amazon EBS volumes, which are block storage. While they can be attached to EC2 instances, they might not provide the same level of shared concurrent access as Amazon EFS. Additionally, synchronizing EBS volumes across different EC2 instances (as in option D) can be complex and error-prone.

Therefore, for a scenario where multiple EC2 instances need to rapidly and concurrently access shared storage with a hierarchical directory structure, Amazon EFS is the best solution.

upvoted 2 times

😑 🌲 ukivanlamlpi 10 months ago

Selected Answer: B

s3 is flat structure. EBS multi mount only for same available zone upvoted 1 times

😑 🏝 Dana12345 10 months, 1 week ago

Selected Answer: B

Because Amazon EBS Multi-Attach enables you to attach a single Provisioned IOPS SSD (io1 or io2) volume to multiple instances that are in the same Availability Zone. The infra contains 2 AZ's. upvoted 1 times

upvoteu i times

😑 🌲 mrsoa 10 months, 1 week ago

Selected Answer: B

B is the correct answer

https://docs.aws.amazon.com/efs/latest/ug/whatisefs.html upvoted 1 times

😑 🌲 mrsoa 10 months, 1 week ago

B is the correct answer

https://docs.aws.amazon.com/efs/latest/ug/whatisefs.html upvoted 1 times

😑 💄 RazSteel 10 months, 2 weeks ago

Selected Answer: C

I think that C is the best option coz io2 can share storage and multi attach. upvoted 1 times

E & PLN6302 9 months, 3 weeks ago

hierarchial directory structure is present in EFS upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Multi-attach does not work "across two Availability Zones". upvoted 2 times

A solutions architect is designing a workload that will store hourly energy consumption by business tenants in a building. The sensors will feed a database through HTTP requests that will add up usage for each tenant. The solutions architect must use managed services when possible. The workload will receive more features in the future as the solutions architect adds independent components.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use Amazon API Gateway with AWS Lambda functions to receive the data from the sensors, process the data, and store the data in an Amazon DynamoDB table.

B. Use an Elastic Load Balancer that is supported by an Auto Scaling group of Amazon EC2 instances to receive and process the data from the sensors. Use an Amazon S3 bucket to store the processed data.

C. Use Amazon API Gateway with AWS Lambda functions to receive the data from the sensors, process the data, and store the data in a Microsoft SQL Server Express database on an Amazon EC2 instance.

D. Use an Elastic Load Balancer that is supported by an Auto Scaling group of Amazon EC2 instances to receive and process the data from the sensors. Use an Amazon Elastic File System (Amazon EFS) shared file system to store the processed data.

Correct Answer: A

Community vote distribution

A (100%)

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: A

The key reasons are:

- ° API Gateway removes the need to manage servers to receive the HTTP requests from sensors
- ° Lambda functions provide a serverless compute layer to process data as needed
- ° DynamoDB is a fully managed NoSQL database that scales automatically
- ° This serverless architecture has minimal operational overhead to manage
- ° Options B, C, and D all require managing EC2 instances which increases ops workload
- ° Option C also adds SQL Server admin tasks and licensing costs

° Option D uses EFS file storage which requires capacity planning and management upvoted 5 times

😑 🌲 Mikado211 (Most Recent 🕗) 6 months ago

Thinking of that, there is not many questions about IoT Core, but this product could be an excellent answer for the need. upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Workload runs every hour, must use managed services, more features in the future, LEAST operational overhead = AWS Lambda functions. HTTP requests, must use managed services, more features in the future, LEAST operational overhead = API Gateway. Must use managed services, more features in the future, LEAST operational overhead = Amazon DynamoDB. upvoted 3 times

😑 💄 ersin13 10 months, 1 week ago

key word is "must use managed services when possible" api ,lambda dynamodb are serverless. so answer is A upvoted 1 times

😑 🌲 Kiki_Pass 10 months, 1 week ago

Selected Answer: A

"The workload will receive more features in the future ..." -> DynamoDB upvoted 3 times

😑 👗 mrsoa 10 months, 1 week ago

Selected Answer: A

A seems to be the right answer upvoted 4 times

😑 💄 Bmaster 10 months, 2 weeks ago

A is correct.

upvoted 2 times

A solutions architect is designing the storage architecture for a new web application used for storing and viewing engineering drawings. All application components will be deployed on the AWS infrastructure.

The application design must support caching to minimize the amount of time that users wait for the engineering drawings to load. The application must be able to store petabytes of data.

Which combination of storage and caching should the solutions architect use?

A. Amazon S3 with Amazon CloudFront

B. Amazon S3 Glacier with Amazon ElastiCache

C. Amazon Elastic Block Store (Amazon EBS) volumes with Amazon CloudFront

D. AWS Storage Gateway with Amazon ElastiCache

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: A

Petabyte data on AWS infra with high performance

B is Glacier so slow

C EBS for petabyte data doesn't work

D Storage gateway is for on premise connectivity which is not required

upvoted 2 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Storing and viewing engineering drawings = Amazon S3 Support caching to minimize the amount of time that users wait for the engineering drawings to load = Amazon CloudFront upvoted 1 times

😑 🌲 wsdasdasdqwdaw 7 months, 3 weeks ago

CF caching and S3 supports petabytes data upvoted 2 times

😑 💄 lemur88 9 months, 2 weeks ago

Selected Answer: A

CF allows caching upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

The key reasons are:

S3 provides highly durable and scalable object storage capable of handling petabytes of data cost-effectively. CloudFront can be used to cache S3 content at the edge, minimizing latency for users and speeding up access to the engineering drawings. The global CloudFront edge network is ideal for caching large amounts of static media like drawings. EBS provides block storage but lacks the scale and durability of S3 for large media files. Glacier is cheaper archival storage but has higher latency unsuited for frequent access. Storage Gateway and ElastiCache may play a role but do not align as well to the main requirements. upvoted 3 times

😑 👗 mrsoa 10 months, 1 week ago

Selected Answer: A

The answer seems A:

B : Glacier for archiving

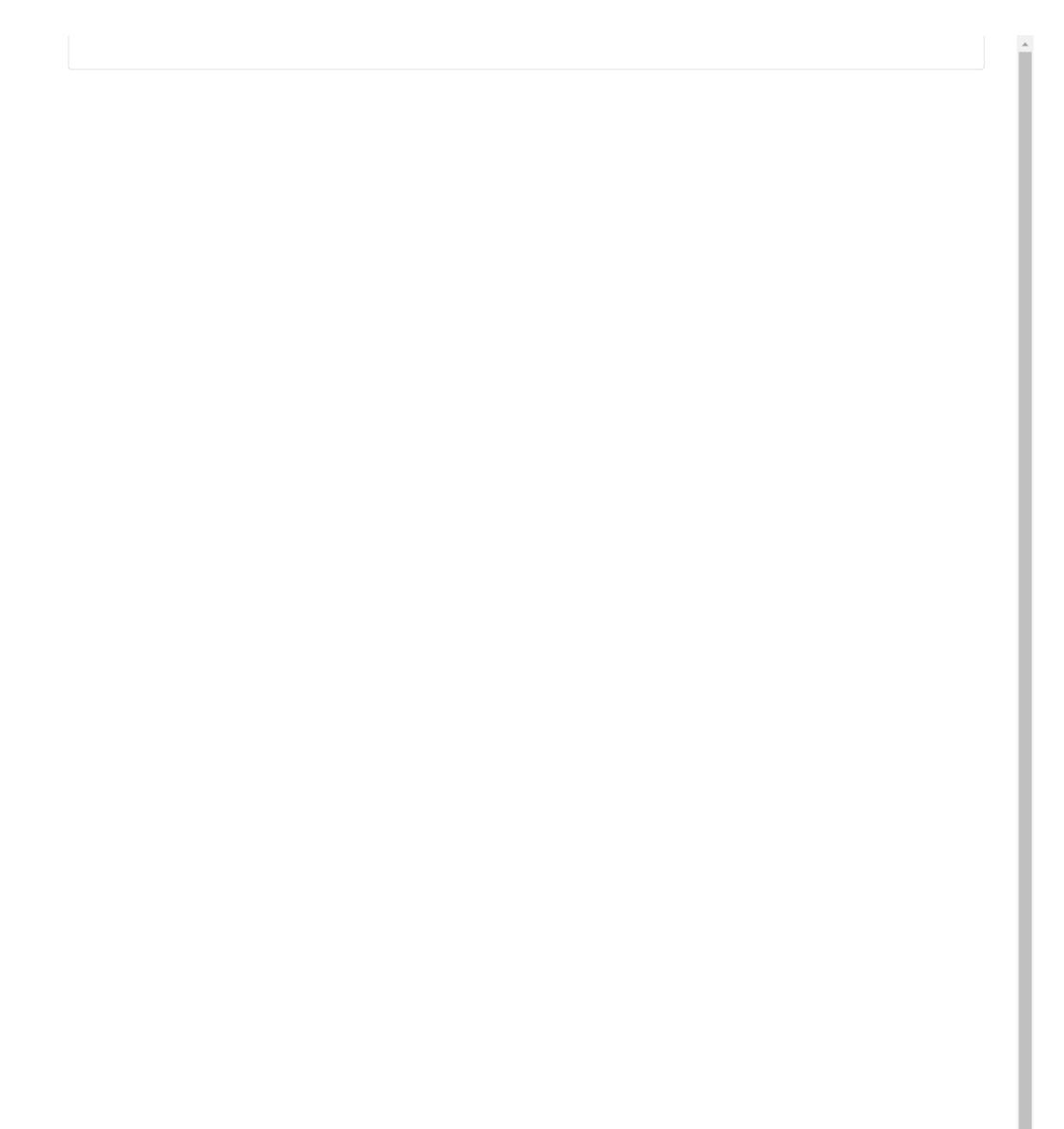
C : i dont think EBS scale to petabytes (I am not sure about that)

D : it incorrect becasueAll application components will be deployed on the AWS infrastructur upvoted 2 times

😑 🌲 Bmaster 10 months, 2 weeks ago

A is correct

upvoted 4 times



An Amazon EventBridge rule targets a third-party API. The third-party API has not received any incoming traffic. A solutions architect needs to determine whether the rule conditions are being met and if the rule's target is being invoked.

Which solution will meet these requirements?

- A. Check for metrics in Amazon CloudWatch in the namespace for AWS/Events.
- B. Review events in the Amazon Simple Queue Service (Amazon SQS) dead-letter queue.
- C. Check for the events in Amazon CloudWatch Logs.
- D. Check the trails in AWS CloudTrail for the EventBridge events.

Correct Answer: A	
Community vote distributionA (68%)D (19%)D (19%)13%	

😑 🌲 awsgeek75 (Highly Voted 🖬) 5 months ago

Selected Answer: A

"EventBridge sends metrics to Amazon CloudWatch every minute for everything from the number of matched events to the number of times a target is invoked by a rule."

from https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-monitoring.html

B: SQS, irrelevant

C: 'Check for events', this wording is confusing but could mean something in wrong context. I would have chosen C if A wasn't an option D: CloudTrail is for AWS resource monitoring so irrelevant

upvoted 6 times

E & lemur88 (Highly Voted) 9 months, 2 weeks ago

Selected Answer: A

https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-monitoring.html upvoted 6 times

😑 👗 pentium75 (Most Recent 🕐) 5 months, 1 week ago

Selected Answer: A

A per https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-monitoring.html

Not B because SQS is not even involved here

Not C because EventBridge sends only metrics, not detailed logs, to CloudWatch

Not D, many fall for CloudTrail supposedly recording "API calls", but this is about calls for the EventBridge API to AWS, not calls to 3rd party APIs b EventBridge.

upvoted 3 times

😑 👗 Min_93 5 months, 2 weeks ago

Selected Answer: C

Option A, "Check for metrics in Amazon CloudWatch in the namespace for AWS/Events," primarily provides aggregated metrics related to EventBridge, but it may not give detailed information about individual events or their specific content. Metrics in CloudWatch can give you an overview of how many events are being processed, but for detailed inspection of events and their conditions, checking CloudWatch Logs (option C is more appropriate.

CloudWatch Logs allow you to see the actual event data and details, providing a more granular view that is useful for troubleshooting and understanding the specifics of why a third-party API is not receiving incoming traffic.

upvoted 1 times

E & SHAAHIBHUSHANAWS 6 months, 1 week ago

А

Events not generating logs in cloudwatch and cloudtrail. only metric data is available. upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: D

CloudWatch is a monitoring service for AWS resources and applications. CloudTrail is a web service that records API activity in your AWS account. CloudWatch monitors applications and infrastructure performance in the AWS environment. CloudTrail monitors actions in the AWS environment. upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"API activity", referring to AWS APIs. This would record if someone modifies the EventBridge configuration. upvoted 1 times

🖃 👗 EdenWang 6 months, 3 weeks ago

Selected Answer: C

C should be correct, I check in AWS management concole. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: A

should be A upvoted 1 times

😑 🌡 ibu007 9 months, 1 week ago

Selected Answer: D

Check the trails in AWS CloudTrail for the EventBridge events. upvoted 1 times

😑 🎍 pentium75 5 months, 1 week ago

I think CloudTrail captures management events (such as modifying the EventBridge configuration) upvoted 1 times

😑 👗 Eminenza22 9 months, 3 weeks ago

Selected Answer: C

Amazon CloudWatch Logs is a service that collects and stores logs from Amazon Web Services (AWS) resources. These logs can be used to troubleshoot problems, monitor performance, and audit activity. The other options are incorrect:

Option A: CloudWatch metrics are used to track the performance of AWS resources. They are not used to store events.

Option B: Amazon SQS dead-letter queues are used to store messages that cannot be delivered to their intended recipients. They are not used to store events.

Option D: AWS CloudTrail is a service that records AWS API calls. It can be used to track the activity of EventBridge rules, but it does not store the events themselves.

upvoted 2 times

😑 💄 Eminenza22 9 months, 3 weeks ago

Errata Corrige А

EventBridge sends metrics to Amazon CloudWatch every minute for everything from the number of matched events to the number of times a target is invoked by a rule.

https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-monitoring.html

upvoted 1 times

😑 💄 Eminenza22 9 months, 3 weeks ago

https://docs.aws.amazon.com/AmazonCloudWatch/latest/events/CloudWatch-Events-Monitoring-CloudWatch-Metrics.html upvoted 1 times

😑 L jayce5 9 months, 3 weeks ago

Selected Answer: D

The answer is D:

"CloudTrail captures API calls made by or on behalf of your AWS account from the EventBridge console and to EventBridge API operations." (https://docs.aws.amazon.com/eventbridge/latest/userguide/eb-logging-monitoring.html) upvoted 2 times

😑 🎍 pentium75 5 months, 1 week ago

"API calls" to AWS for managing EventBridge. Not "API calls" BY EventBridge to 3rd party APIs. upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago



Selected Answer: D

The key reasons:

AWS CloudTrail provides visibility into EventBridge operations by logging API calls made by EventBridge. Checking the CloudTrail trails will show the PutEvents API calls made when EventBridge rules match an event pattern. CloudTrail will also log the Invoke API call when the rule target is triggered. CloudWatch metrics and logs contain runtime performance data but not info on rule evaluation and targeting. SQS dead letter gueues collect failed event deliveries but won't provide insights on successful invocations. CloudTrail is purpose-built to log operational events and API activity so it can confirm if the EventBridge rule is being evaluated and triggering the target as expected.

upvoted 2 times

E **Eminenza22** 9 months, 3 weeks ago

Amazon CloudWatch Logs is a service that collects and stores logs from Amazon Web Services (AWS) resources. These logs can be used to troubleshoot problems, monitor performance, and audit activity.

The other options are incorrect:

Option A: CloudWatch metrics are used to track the performance of AWS resources. They are not used to store events.

Option B: Amazon SQS dead-letter queues are used to store messages that cannot be delivered to their intended recipients. They are not used to store events.

Option D: AWS CloudTrail is a service that records AWS API calls. It can be used to track the activity of EventBridge rules, but it does not store the events themselves.

upvoted 1 times

😑 🌲 Bennyboy789 10 months, 1 week ago

Selected Answer: A

Option A is the most appropriate solution because Amazon EventBridge publishes metrics to Amazon CloudWatch. You can find relevant metrics ir the "AWS/Events" namespace, which allows you to monitor the number of events matched by the rule and the number of invocations to the rule's target.

upvoted 4 times

😑 🌲 h8er 10 months, 1 week ago

Selected Answer: A

https://docs.aws.amazon.com/AmazonCloudWatch/latest/events/CloudWatch-Events-Monitoring-CloudWatch-Metrics.html upvoted 1 times

Which solution will meet these requirements with the LEAST operational overhead?

A. Create a reminder in Amazon EventBridge to scale the instances.

- B. Create an Auto Scaling group that has a scheduled action.
- C. Create an Auto Scaling group that uses manual scaling.
- D. Create an Auto Scaling group that uses automatic scaling.

Correct	Answer: /	4
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Community vote distribution

B (100%)

😑 👗 Bmaster (Highly Voted 🖬) 10 months, 2 weeks ago

B is correct.

https://docs.aws.amazon.com/autoscaling/ec2/userguide/ec2-auto-scaling-scheduled-scaling.html upvoted 7 times

😑 👗 wizcloudifa (Most Recent 🕐) 1 month, 1 week ago

Selected Answer: B

A - too much operation overhead, manually provisioning the instances after you receive the reminder from eventbridge

- B right answer, as you can scale up the EC2 instances and keep them ready before large overload time
- C too much operation overhead in manually scaling

D - automatic scaling will scale up the instances after some duration after it has encountered the heavy workload traffic, not ideal upvoted 2 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: B

runs every Friday evening = an Auto Scaling group that has a scheduled action upvoted 2 times

😑 📥 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

The key reasons:

Auto Scaling scheduled actions allow defining specific dates/times to scale out or in. This can be used to scale to 6 instances every Friday evening automatically.

Scheduled scaling removes the need for manual intervention to scale up/down for the workload.

EventBridge reminders and manual scaling require human involvement each week adding overhead.

Automatic scaling responds to demand and may not align perfectly to scale out every Friday without additional tuning.

Scheduled Auto Scaling actions provide the automation needed to scale for the weekly workload without ongoing operational overhead. upvoted 3 times

😑 💄 Sat897 10 months, 1 week ago

Selected Answer: B

Predicted period.. So schedule the instance upvoted 3 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: B

B seems to be correct

upvoted 1 times

😑 🌲 Deepakin96 10 months, 2 weeks ago

Selected Answer: B

When we know the run time is Friday, we can schedule the instance to 6 upvoted 2 times

🖯 🌲 Josantru 10 months, 2 weeks ago

Correct B.

upvoted 3 times

A company is creating a REST API. The company has strict requirements for the use of TLS. The company requires TLSv1.3 on the API endpoints. The company also requires a specific public third-party certificate authority (CA) to sign the TLS certificate.

Which solution will meet these requirements?

A. Use a local machine to create a certificate that is signed by the third-party CImport the certificate into AWS Certificate Manager (ACM). Create an HTTP API in Amazon API Gateway with a custom domain. Configure the custom domain to use the certificate.

B. Create a certificate in AWS Certificate Manager (ACM) that is signed by the third-party CA. Create an HTTP API in Amazon API Gateway with a custom domain. Configure the custom domain to use the certificate.

C. Use AWS Certificate Manager (ACM) to create a certificate that is signed by the third-party CA. Import the certificate into AWS Certificate Manager (ACM). Create an AWS Lambda function with a Lambda function URL. Configure the Lambda function URL to use the certificate.

D. Create a certificate in AWS Certificate Manager (ACM) that is signed by the third-party CA. Create an AWS Lambda function with a Lambda function URL. Configure the Lambda function URL to use the certificate.

Correct Answer: A

Community vote distribution A (70%)

B (30%)

😑 🌲 bjexamprep (Highly Voted 🖬) 9 months, 1 week ago

Selected Answer: A

I don't understand why some many people vote B. In ACM, you can either request certificate from Amazon CA or import an existing certificate. There is no option in ACM that allow you to request a certificate that can be signed by third party CA. upvoted 15 times

😑 💄 markoniz 8 months, 4 weeks ago

I fully agree upvoted 5 times

😑 🌲 wsdasdasdqwdaw 7 months, 3 weeks ago

Hmm AWS is saying:

ACM certificates can be used to establish secure communications across the internet or within an internal network. You can request a publicl trusted certificate directly from ACM (an "ACM certificate") or import a publicly trusted certificate issued by a third party. Self-signed certificates are also supported. To provision your organization's internal PKI, you can issue ACM certificates signed by a private certificate authority (CA) created and managed by AWS Private CA. The CA may either reside in your account or be shared with you by a different account.

https://docs.aws.amazon.com/acm/latest/userguide/gs.html upvoted 4 times

😑 🌲 pentium75 5 months, 1 week ago

Exactly. You can "import [not create] a publicly trusted certificate issued by a third party". upvoted 2 times

😑 💄 luiscc (Highly Voted 🖬) 10 months, 2 weeks ago

Selected Answer: B

AWS Certificate Manager (ACM) is a service that lets you easily provision, manage, and deploy SSL/TLS certificates for use with AWS services and

your internal resources. By creating a certificate in ACM that is signed by the third-party CA, the company can meet its requirement for a specific public third-party CA to sign the TLS certificate.

upvoted 8 times

😑 🌲 pentium75 5 months, 1 week ago

Sounds like ChatGPT answer, "creating a certificate in ACM that is signed by the third-party CA" is not possible. upvoted 4 times

😑 🌲 awsgeek75 Most Recent 🕗 5 months ago

Selected Answer: A

A is logical answer.

BCD are either misworded here or intentionally confusing. Regardless, you cannot create a cert in ACM that is signed by 3rd party CA. You can only import these certs to ACM.

upvoted 3 times

E & Shubhi_08 5 months, 1 week ago

Selected Answer: A

We can't create third party certificates in ACM. upvoted 1 times

😑 💄 foha2012 5 months, 1 week ago

Is this a question from the associate or professional exam ?? upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: A

ACM can import, but not create, 3rd party certificates. Leaves only A. upvoted 1 times

😑 👗 maged123 5 months, 3 weeks ago

Selected Answer: A

You have already a publicly trusted certificate issued by a third party and you just need to import it in ACM not to creat a new one. So, the correct answer is A which is the only one that importing the certificate in ACM while B, C and D are creating a new one. upvoted 1 times

😑 💄 sparun1607 6 months, 1 week ago

The answer must be A, You can't create a certificate in ACM, read the below link https://docs.aws.amazon.com/acm/latest/userguide/setup.html upvoted 1 times

😑 💄 numark 6 months, 2 weeks ago

Answer is A: Can I import a third-party certificate and use it with AWS services?

Yes. If you want to use a third-party certificate with Amazon CloudFront, Elastic Load Balancing, or Amazon API Gateway, you may import it into ACM using the AWS Management Console, AWS CLI, or ACM APIs. ACM does not manage the renewal process for imported certificates. You can use the AWS Management Console to monitor the expiration dates of an imported certificates and import a new third-party certificate to replace an expiring one.

upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

It's 22/Nov/2023 and from the console you cant create a certificate in AWS Certificate Manager (ACM) that is signed by the third-party CA. But you could obtain it externally then import it into ACM.

upvoted 1 times

😑 💄 Tshring 6 months, 3 weeks ago

Selected Answer: B

Option B meets these requirements:

- API Gateway HTTP APIs support TLS 1.3
- ACM can import certificates signed by third-party CAs
- API Gateway provides REST APIs
- upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"ACM can import (!) certificates signed by third-party CA", but not create (!) them as B suggests. upvoted 1 times

E & NickGordon 7 months ago

Selected Answer: A

In ACM you can't create a cert signed by another CA. Dude, try it by yourself. There is no such option! upvoted 1 times

😑 💄 chen0305_099 9 months, 3 weeks ago

WHY NOT A? upvoted 1 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

Use ACM to create a certificate signed by the third-party CA. ACM integrates with external CAs. Create an API Gateway HTTP API with a custom domain name. Configure the custom domain to use the ACM certificate. API Gateway supports configuring custom domains with ACM certificates. This allows serving the API over TLS using the required third-party certificate and TLS 1.3 support. upvoted 2 times

ACM integrates with external CAs." no

upvoted 1 times

😑 🌲 taustin2 10 months ago

Selected Answer: A

You can provide certificates for your integrated AWS services either by issuing them directly with ACM or by importing third-party certificates into the ACM management system.

upvoted 1 times

😑 🌡 vini15 10 months ago

Should be A. We need to import third-party certificate to ACM. upvoted 4 times

😑 🏝 darkknight23 10 months, 1 week ago

Selected Answer: A

I am not sure between A and B. I think A makes more sense, as the only way to do it in ACM is to import it and not create it. upvoted 2 times

A company runs an application on AWS. The application receives inconsistent amounts of usage. The application uses AWS Direct Connect to connect to an on-premises MySQL-compatible database. The on-premises database consistently uses a minimum of 2 GiB of memory.

The company wants to migrate the on-premises database to a managed AWS service. The company wants to use auto scaling capabilities to manage unexpected workload increases.

Which solution will meet these requirements with the LEAST administrative overhead?

A. Provision an Amazon DynamoDB database with default read and write capacity settings.

B. Provision an Amazon Aurora database with a minimum capacity of 1 Aurora capacity unit (ACU).

C. Provision an Amazon Aurora Serverless v2 database with a minimum capacity of 1 Aurora capacity unit (ACU).

D. Provision an Amazon RDS for MySQL database with 2 GiB of memory.

Correct Answer: C

Community vote distribution

C (100%)

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: C

The key reasons:

Aurora Serverless v2 provides auto-scaling so the database can handle inconsistent workloads and spikes automatically without admin intervention.

It can scale down to zero when not in use to minimize costs.

The minimum 1 ACU capacity is sufficient to replace the on-prem 2 GiB database based on the info given.

Serverless capabilities reduce admin overhead for capacity management.

DynamoDB lacks MySQL compatibility and requires more hands-on management.

RDS and provisioned Aurora require manually resizing instances to scale, increasing admin overhead.

upvoted 9 times

😑 🌲 dkw2342 2 months, 3 weeks ago

> It can scale down to zero when not in use to minimize costs.
 This part is not correct. Aurora Serverless v1 was able to scale to zero.
 upvoted 1 times

😑 👗 kambarami (Highly Voted 🖬) 8 months, 3 weeks ago

the questions are hard from 500 + upvoted 5 times

😑 💄 foha2012 5 months, 1 week ago

I dont think these are associate exam questions rather are from AWS professional exam upvoted 1 times

😑 🌲 awsgeek75 5 months ago

Yes, I agree. I have been reading the pro questions and these are copy paste. On the bright side, it prepares you for the next step! upvoted 2 times

😑 🌲 awsgeek75 Most Recent 🕐 5 months ago

Selected Answer: C

LEAST administrative overhead = Aurora Serverless upvoted 1 times

😑 🌢 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: C

LEAST administrative overhead = Serverless upvoted 1 times

😑 🌡 ibu007 10 months ago

Selected Answer: C

serverless = LEAST overhead

upvoted 2 times

🖯 🌡 D10SJoker 10 months, 1 week ago

Why not D? upvoted 1 times

😑 💄 wizcloudifa 1 month, 1 week ago

no autoscaling with RDS upvoted 1 times

😑 🛔 awsgeek75 5 months ago

Because "LEAST administrative overhead" is a requirement. RDS configured with mem requirements is an admin overhead upvoted 1 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: C

C seems to be the right answer

Instead of provisioning and managing database servers, you specify Aurora capacity units (ACUs). Each ACU is a combination of approximately 2 gigabytes (GB) of memory, corresponding CPU, and networking. Database storage automatically scales from 10 gibibytes (GiB) to 128 tebibytes (TiB), the same as storage in a standard Aurora DB cluster

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-serverless-v1.how-it-works.html https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-serverless-v2.html upvoted 1 times

😑 💄 Bmaster 10 months, 2 weeks ago

C is correct.

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-serverless-v2.how-it-works.html#aurora-serverless-v2.how-it-works.capacity upvoted 2 times

Question #573

Which solution will meet these requirements MOST cost-effectively?

A. Configure Lambda provisioned concurrency.

B. Increase the timeout of the Lambda functions.

C. Increase the memory of the Lambda functions.

D. Configure Lambda SnapStart.

Correct Answer: C

Community vote distribution

D (100%)

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: D

The key reasons:

SnapStart keeps functions initialized and ready to respond quickly, eliminating cold starts. SnapStart is optimized for applications without aggressive latency needs, reducing costs. It scales automatically to match traffic spikes, eliminating outliers when scaling up. SnapStart is a native Lambda feature with no additional charges, keeping costs low. Provisioned concurrency incurs charges for always-on capacity reserved. More costly than SnapStart. Increasing timeout and memory do not directly improve startup performance like SnapStart. upvoted 11 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: D

https://docs.aws.amazon.com/lambda/latest/dg/snapstart.html

"Lambda SnapStart for Java can improve startup performance for latency-sensitive applications by up to 10x at no extra cost, typically with no changes to your function code."

upvoted 3 times

😑 🌲 awsgeek75 5 months ago

Also

A: Solves concurrency issues not startup

- B is for execution timeout (don't think that possible if I understand the option correctly)
- C Memory is not the issue here

upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: D

Lambda SnapStart it is.

https://docs.aws.amazon.com/lambda/latest/dg/snapstart.html#:~:text=RSS-,Lambda%20SnapStart,-for%20Java%20can

upvoted 1 times

E 🌡 TariqKipkemei 6 months, 3 weeks ago

only because its a Java 11 app...if it were any other besides Java I believe Provisioned concurrency could help. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: D

Lambda SnapStart for Java can improve startup performance for latency-sensitive applications by up to 10x at no extra cost, typically with no changes to your function code.

https://docs.aws.amazon.com/lambda/latest/dg/snapstart.html upvoted 2 times

😑 🌲 BrijMohan08 9 months, 2 weeks ago

Selected Answer: D

https://docs.aws.amazon.com/lambda/latest/dg/snapstart.html

upvoted 1 times

😑 💄 skyphilip 9 months, 3 weeks ago

Selected Answer: D

D is correct

Lambda SnapStart for Java can improve startup performance for latency-sensitive applications by up to 10x at no extra cost, typically with no changes to your function code. The largest contributor to startup latency (often referred to as cold start time) is the time that Lambda spends initializing the function, which includes loading the function's code, starting the runtime, and initializing the function code.

With SnapStart, Lambda initializes your function when you publish a function version. Lambda takes a Firecracker microVM snapshot of the memory and disk state of the initialized execution environment, encrypts the snapshot, and caches it for low-latency access. When you invoke the function version for the first time, and as the invocations scale up, Lambda resumes new execution environments from the cached snapshot instead of initializing them from scratch, improving startup latency.

upvoted 1 times

😑 💄 anikety123 9 months, 3 weeks ago

Selected Answer: D

Both Lambda SnapStart and provisioned concurrency can reduce cold starts and outlier latencies when a function scales up. SnapStart helps you improve startup performance by up to 10x at no extra cost. Provisioned concurrency keeps functions initialized and ready to respond in double-digit milliseconds. Configuring provisioned concurrency incurs charges to your AWS account. Use provisioned concurrency if your application has strict cold start latency requirements. You can't use both SnapStart and provisioned concurrency on the same function version. upvoted 4 times

😑 🌲 avkya 10 months ago

"SnapStart does not support provisioned concurrency, the arm64 architecture, Amazon Elastic File System (Amazon EFS), or ephemeral storage greater than 512 MB." The question says "The company wants to reduce cold starts" This means provisioned concurrency. I'm a little bit confused with D.

upvoted 2 times

😑 🌲 Woodlawn5700 10 months, 1 week ago

D

https://docs.aws.amazon.com/lambda/latest/dg/snapstart.html upvoted 1 times

😑 🌲 mrsoa 10 months, 1 week ago

Selected Answer: D

D is the answer

Lambda SnapStart for Java can improve startup performance for latency-sensitive applications by up to 10x at no extra cost, typically with no changes to your function code. The largest contributor to startup latency (often referred to as cold start time) is the time that Lambda spends initializing the function, which includes loading the function's code, starting the runtime, and initializing the function code.

https://docs.aws.amazon.com/lambda/latest/dg/snapstart.html upvoted 2 times

😑 👗 Bmaster 10 months, 2 weeks ago

D is best!! A is not MOST cost effectly. lambda snapshot is new feature for lambda.

https://docs.aws.amazon.com/lambda/latest/dg/snapstart.html upvoted 3 times

😑 🌲 Bmaster 10 months, 2 weeks ago

misspell.... lambda snapstart upvoted 1 times

😑 👗 RaksAWS 10 months, 2 weeks ago

why not D It should work upvoted 2 times A financial services company launched a new application that uses an Amazon RDS for MySQL database. The company uses the application to track stock market trends. The company needs to operate the application for only 2 hours at the end of each week. The company needs to optimize the cost of running the database.

Which solution will meet these requirements MOST cost-effectively?

A. Migrate the existing RDS for MySQL database to an Aurora Serverless v2 MySQL database cluster.

B. Migrate the existing RDS for MySQL database to an Aurora MySQL database cluster.

C. Migrate the existing RDS for MySQL database to an Amazon EC2 instance that runs MySQL. Purchase an instance reservation for the EC2 instance.

D. Migrate the existing RDS for MySQL database to an Amazon Elastic Container Service (Amazon ECS) cluster that uses MySQL container images to run tasks.

Correct Answer: A

Community vote distribution

13%

😑 🆀 Guru4Cloud (Highly Voted 🖝) 9 months, 3 weeks ago

A (88%)

Selected Answer: A

The key reasons are:

Aurora Serverless v2 scales compute capacity automatically based on actual usage, down to zero when not in use. This minimizes costs for intermittent usage.

Since it only runs for 2 hours per week, the application is ideal for a serverless architecture like Aurora Serverless.

Aurora Serverless v2 charges per second when the database is active, unlike RDS which charges hourly.

Aurora Serverless provides higher availability than self-managed MySQL on EC2 or ECS.

Using reserved EC2 instances or ECS still incurs charges when not in use versus the fine-grained scaling of serverless.

Standard Aurora clusters have a minimum capacity unlike the auto-scaling serverless architecture.

upvoted 8 times

😑 🌲 dkw2342 2 months, 3 weeks ago

A is correct, but Aurora Serverless v2 only scales down to 0.5 ACU, not to zero. upvoted 1 times

😑 🌲 awsgeek75 (Most Recent 🕗 5 months ago

Selected Answer: A

B is wrong because Aurora MySQL cluster will just keep on running for the rest of the week and will be costly. C and D have too much infra bloating so costly upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: A

2 hours per week = Serverless = A. Recommended for "infrequent, intermittent, or unpredictable workloads" upvoted 4 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Answer is A. Here are the key distinctions:

Amazon Aurora: provides built-in security, continuous backups, serverless compute, up to 15 read replicas, automated multi-Region replication, and integrations with other AWS services.

Amazon Aurora Serverless: is an on-demand, auto-scaling configuration for Aurora where the database automatically starts up, shuts down, and scales capacity up or down based on your application's needs.

With serverless the db will shut down when not in use. upvoted 3 times

😑 🌲 anikety123 9 months, 3 weeks ago

Selected Answer: A

Option is A

upvoted 2 times

😑 💄 hachiri 9 months, 4 weeks ago

Selected Answer: A

Aurora Serverless

- Automated database instantiation and auto-scaling based on actual usage
- Good for infrequent, intermittent or unpredictable workloads
- No capacity planning needed
- Pay per second, can be more cost-effective upvoted 2 times

😑 🏝 vini15 10 months ago

will go with A

Amazon Aurora Serverless v2 is suitable for the most demanding, highly variable workloads. For example, your database usage might be heavy for a short period of time, followed by long periods of light activity or no activity at all. upvoted 2 times

😑 💄 msdnpro 10 months, 1 week ago

Selected Answer: A

"Amazon Aurora Serverless v2 is suitable for the most demanding, highly variable workloads. For example, your database usage might be heavy fo a short period of time, followed by long periods of light activity or no activity at all. "

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-serverless-v2.how-it-works.html upvoted 1 times

😑 💄 ersin13 10 months, 1 week ago

A. Migrate the existing RDS for MySQL database to an Aurora Serverless v2 MySQL database cluster. upvoted 1 times

😑 💄 mrsoa 10 months, 1 week ago

Selected Answer: B

B seems to be the correct answer, because if we have a predictable workload Aurora database seems to be most cost effective however if we have unpredictable workload aurora serverless seems to be more cost effective because our database will scale up and down

for more informations please read this article

https://medium.com/trackit/aurora-or-aurora-serverless-v2-which-is-more-cost-effective-bcd12e172dcf upvoted 3 times

□ ▲ Chef_couincouin 7 months ago

according to the link, i understand that Aurora Serverless is ideal for sudden peaks in database usage with moderate or minimal usage during other periods of the day. So Answear is A

upvoted 2 times

😑 👗 Smart 9 months, 3 weeks ago

True but due to autoscaling - it will be cheaper...check example#1 in the your link. upvoted 1 times

😑 💄 Smart 9 months, 3 weeks ago

Correct Answer is A upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Provisioned RDS (as in B) is good for steady (not "predictable") workloads. In this case, the workload is predictable, but the prediction is that it will be used only 2 hours per week.

upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Aurora Serverless is for "infrequent, intermittent, OR unpredictable workloads" upvoted 2 times

A company deploys its applications on Amazon Elastic Kubernetes Service (Amazon EKS) behind an Application Load Balancer in an AWS Region. The application needs to store data in a PostgreSQL database engine. The company wants the data in the database to be highly available. The company also needs increased capacity for read workloads.

Which solution will meet these requirements with the MOST operational efficiency?

A. Create an Amazon DynamoDB database table configured with global tables.

- B. Create an Amazon RDS database with Multi-AZ deployments.
- C. Create an Amazon RDS database with Multi-AZ DB cluster deployment.
- D. Create an Amazon RDS database configured with cross-Region read replicas.

Correct Answer: *B*

Community vote distribution

C (100%)

😑 👗 Guru4Cloud (Highly Voted 🐽) 9 months, 3 weeks ago

Selected Answer: C

RDS Multi-AZ DB cluster deployments provide high availability, automatic failover, and increased read capacity.

A multi-AZ cluster automatically handles replicating data across AZs in a single region.

This maintains operational efficiency as it is natively managed by RDS without needing external replication.

DynamoDB global tables involve complex provisioning and requires app changes.

RDS read replicas require manual setup and management of replication.

RDS Multi-AZ clustering is purpose-built by AWS for HA PostgreSQL deployments and balancing read workloads. upvoted 8 times

😑 👗 upliftinghut (Most Recent 🕐) 4 months, 2 weeks ago

Selected Answer: C

multi-AZ addresses both HA & increased read capacity with synchronous data replication between main DB & standby. Read replica is not enough because only increased read capacity not enabling HA, besides the data replication is async upvoted 1 times

😑 🌲 awsgeek75 5 months ago

Selected Answer: C

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/multi-az-db-clusters-concepts.html

"A Multi-AZ DB cluster deployment is a semisynchronous, high availability deployment mode of Amazon RDS with two readable standby DB instances"

A: DynamoDB is not Postgres

B: Although HA is achieve but it does not increase the read capacity as much as C without additional operational complexity

D: Cross region is not a requirement and won't solve the same region HA or read issues

upvoted 1 times

😑 🌡 aws94 6 months ago

Selected Answer: C Multi-AZ DB Cluster Deployment = Aurora upvoted 1 times

😑 💄 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: C

Multi-AZ DB cluster deployments provides two readable DB instances if you need additional read capacity upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: C

C is correct upvoted 1 times

😑 🌲 avkya 10 months ago

Selected Answer: C

Multi-AZ DB clusters provide high availability, increased capacity for read workloads, and lower write latency when compared to Multi-AZ DB instance deployments.

upvoted 1 times

😑 🌲 mrsoa 10 months, 1 week ago

Selected Answer: C

CCCCCCCCCCCCCCCCCCCcCcCc upvoted 1 times

😑 💄 luiscc 10 months, 2 weeks ago

Selected Answer: C

DB cluster deployment can scale read workloads by adding read replicas. This provides increased capacity for read workloads without impacting the write workload.

upvoted 4 times

Question #576

A company is building a RESTful serverless web application on AWS by using Amazon API Gateway and AWS Lambda. The users of this web application will be geographically distributed, and the company wants to reduce the latency of API requests to these users.

Which type of endpoint should a solutions architect use to meet these requirements?

- A. Private endpoint
- B. Regional endpoint
- C. Interface VPC endpoint
- D. Edge-optimized endpoint

Correct Answer: D

Community vote distribution

D (100%)

😑 🌲 mrsoa (Highly Voted 🖬) 10 months, 1 week ago

Selected Answer: D

The correct answer is D

API Gateway - Endpoint Types

- Edge-Optimized (default): For global clients
- Requests are routed through the CloudFront Edge locations (improves latency)
- The API Gateway still lives in only one region
- Regional:
- For clients within the same region
- Could manually combine with CloudFront (more control over the caching
- strategies and the distribution)
- Private:
- Can only be accessed from your VPC using an interface VPC endpoint (ENI)
- Use a resource policy to define access

upvoted 6 times

😑 💄 awsgeek75 [Most Recent 🕑] 4 months, 3 weeks ago

Selected Answer: D

geographically distributed users + low latency = Edge optimized ednpoint upvoted 1 times

🖃 上 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: D

An edge-optimized API endpoint typically routes requests to the nearest CloudFront Point of Presence (POP), which could help in cases where you clients are geographically distributed. This is the default endpoint type for API Gateway REST APIs.

https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-endpointtypes.html#:~:text=API%20endpoint%20typically-,routes,-requests%20to%20the upvoted 2 times

😑 🌡 dilaaziz 7 months, 1 week ago

Selected Answer: D

https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-endpoint-types.html upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: D

An edge-optimized API endpoint typically routes requests to the nearest CloudFront Point of Presence (POP), which could help in cases where you clients are geographically distributed. This is the default endpoint type for API Gateway REST APIs.

https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-endpoint-types.html upvoted 3 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

Edge-optimized endpoint upvoted 2 times

😑 💄 Josantru 10 months, 2 weeks ago

Correct D.

Edge-optimized API endpoints An edge-optimized API endpoint is best for geographically distributed clients. API requests are routed to the nearest CloudFront Point of Presence (POP). This is the default endpoint type for API Gateway REST APIs. upvoted 2 times

A company uses an Amazon CloudFront distribution to serve content pages for its website. The company needs to ensure that clients use a TLS certificate when accessing the company's website. The company wants to automate the creation and renewal of the TLS certificates.

Which solution will meet these requirements with the MOST operational efficiency?

A. Use a CloudFront security policy to create a certificate.

- B. Use a CloudFront origin access control (OAC) to create a certificate.
- C. Use AWS Certificate Manager (ACM) to create a certificate. Use DNS validation for the domain.
- D. Use AWS Certificate Manager (ACM) to create a certificate. Use email validation for the domain.

Correct Answer: *D*

Community vote distribution

C (100%)

😑 🛔 Bmaster (Highly Voted 🖬) 10 months, 2 weeks ago

C is correct.

"ACM provides managed renewal for your Amazon-issued SSL/TLS certificates. This means that ACM will either renew your certificates automatically (if you are using DNS validation), or it will send you email notices when expiration is approaching. These services are provided for both public and private ACM certificates."

https://docs.aws.amazon.com/acm/latest/userguide/managed-renewal.html upvoted 7 times

😑 🛔 Guru4Cloud (Highly Voted 🖬) 9 months, 3 weeks ago

Selected Answer: C

The key reasons are:

AWS Certificate Manager (ACM) provides free public TLS/SSL certificates and handles certificate renewals automatically.

Using DNS validation with ACM is operationally efficient since it automatically makes changes to Route 53 rather than requiring manual validation steps.

ACM integrates natively with CloudFront distributions for delivering HTTPS content.

CloudFront security policies and origin access controls do not issue TLS certificates.

Email validation requires manual steps to approve the domain validation emails for each renewal.

upvoted 5 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: C

For me, C is the only realistic option as I don't think you can do AB without a lot of complexity. D just makes no sense. upvoted 1 times

😑 🌲 ibu007 9 months, 1 week ago

Selected Answer: C

Use AWS Certificate Manager (ACM) to create a certificate. Use DNS validation for the domain upvoted 3 times

😑 🌲 chen0305_099 9 months, 3 weeks ago

Selected Answer: C

C 似乎是正確的 upvoted 3 times

😑 🌲 Kiki_Pass 10 months, 1 week ago

Selected Answer: C

"DNS Validation is preferred for automation purposes" -- Stephane's course on Udemy upvoted 1 times

😑 🌲 mrsoa 10 months, 1 week ago

Selected Answer: C

C seems to be correct

upvoted 1 times

😑 🌲 nananashi 10 months, 2 weeks ago

I think the general product uses DNS rather than email to automate, is the given answer correct?

Question #578

A company deployed a serverless application that uses Amazon DynamoDB as a database layer. The application has experienced a large increase in users. The company wants to improve database response time from milliseconds to microseconds and to cache requests to the database.

Which solution will meet these requirements with the LEAST operational overhead?

A. Use DynamoDB Accelerator (DAX).

B. Migrate the database to Amazon Redshift.

C. Migrate the database to Amazon RDS.

D. Use Amazon ElastiCache for Redis.

Correct Answer: A

Community vote distribution

12%

😑 📥 h8er (Highly Voted 🖬) 10 months, 1 week ago

A (88%)

Selected Answer: A

Amazon DynamoDB Accelerator (DAX) is a fully managed, highly available, in-memory cache for Amazon DynamoDB that delivers up to a 10 times performance improvement—from milliseconds to microseconds—even at millions of requests per second.

https://aws.amazon.com/dynamodb/dax/#:~:text=Amazon%20DynamoDB%20Accelerator%20(DAX)%20is,millions%20of%20requests%20per%20s cond.

upvoted 9 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: A

DAX is least operations overhead.

B: Redshift, although powerful, but is for analytics

C: Downgrading to RDS won't help

D: EC for Redis is more for persistent caching so would be good but lot of operational overhead

upvoted 2 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

improve DynamoDB response time from milliseconds to microseconds and to cache requests to the database = DynamoDB Accelerator (DAX) upvoted 2 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Use DynamoDB Accelerator (DAX). upvoted 2 times

pentium75 5 months, 1 week ago Which is A, not C. Topic 1

upvoted 2 times

😑 💄 awsgeek75 5 months ago

Quote A but mark C. You need more coffee mate :) upvoted 3 times

😑 🌲 mrsoa 10 months, 1 week ago

Selected Answer: A

A is the right answer upvoted 2 times

😑 💄 Bmaster 10 months, 2 weeks ago

Correct A. upvoted 1 times Which solution will meet these requirements?

- A. Use the Instance Scheduler on AWS to configure start and stop schedules.
- B. Turn off automatic backups. Create weekly manual snapshots of the database.
- C. Create a custom AWS Lambda function to start and stop the database based on minimum CPU utilization.
- D. Purchase All Upfront reserved DB instances.

Correct Answer: C

Community vote distribution

A (95%)

5%

😑 💄 potomac (Highly Voted 🖬 7 months, 1 week ago

Selected Answer: A

The Instance Scheduler on AWS solution automates the starting and stopping of Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Relational Database Service (Amazon RDS) instances.

This solution helps reduce operational costs by stopping resources that are not in use and starting them when they are needed. The cost savings can be significant if you leave all of your instances running at full utilization continuously. https://aws.amazon.com/solutions/implementations/instance-scheduler-on-aws/ upvoted 5 times

E & pentium75 Most Recent (2) 5 months, 1 week ago

Selected Answer: A

B increases operational overhead

C Lambda functions could work but NOT "based on minimum CPU utilization"

D might save cost but not as much as A

upvoted 3 times

😑 🌲 ibu007 9 months, 1 week ago

Selected Answer: A

A. Use the Instance Scheduler on AWS to configure start and stop schedules upvoted 3 times

😑 🌲 baba365 8 months, 2 weeks ago

Why not D? upvoted 2 times

😑 🏝 AndreiWebNet 6 months, 1 week ago

How do you actually reduce costs enough to buy upfront instances that you pay for them if you use them 1 h or 24 and it is payed to run 24h. It says that you use this instances 8 hours a day 5 days a week, totaling 40h a week.... so is it the difference from 40h to 168 h? upvoted 3 times

😑 💄 master9 5 months, 3 weeks ago

When you buy Reserved Instances, the larger the upfront payment, the greater the discount. To maximize your savings, you can pay all

up-front and receive the largest discount. Partial up-front RI's offer lower discounts but give you the option to spend less up front. Lastly you can choose to spend nothing up front and receive a smaller discount, but allowing you to free up capital to spend in other projects.

But you need some mechanism to stop on weekend and in night to save cost. upvoted 1 times

😑 🌲 ErnShm 9 months, 1 week ago

А

https://docs.aws.amazon.com/solutions/latest/instance-scheduler-on-aws/solution-overview.html upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

Purpose-built scheduling minimizes operational overhead. Aligns instance running time precisely with business hour demands. Maintains backups unlike disabling auto backups. More cost effective and flexible than reserved instances. Simpler to implement than a custom Lambda function. upvoted 3 times

😑 🌲 anikety123 9 months, 3 weeks ago

Selected Answer: B

Its B. Check the AWS link

https://aws.amazon.com/solutions/implementations/instance-scheduler-on-aws/?nc1=h_ls upvoted 1 times

😑 💄 anikety123 9 months, 3 weeks ago

Sorry I wanted to select A. upvoted 4 times

😑 🌲 mrsoa 10 months, 1 week ago

Selected Answer: A

А

https://aws.amazon.com/solutions/implementations/instance-scheduler-on-aws/ upvoted 1 times

😑 🛔 luiscc 10 months, 2 weeks ago

Selected Answer: A

Scheduler do the job upvoted 3 times

A company uses locally attached storage to run a latency-sensitive application on premises. The company is using a lift and shift method to move the application to the AWS Cloud. The company does not want to change the application architecture.

Which solution will meet these requirements MOST cost-effectively?

- A. Configure an Auto Scaling group with an Amazon EC2 instance. Use an Amazon FSx for Lustre file system to run the application.
- B. Host the application on an Amazon EC2 instance. Use an Amazon Elastic Block Store (Amazon EBS) GP2 volume to run the application.
- C. Configure an Auto Scaling group with an Amazon EC2 instance. Use an Amazon FSx for OpenZFS file system to run the application.
- D. Host the application on an Amazon EC2 instance. Use an Amazon Elastic Block Store (Amazon EBS) GP3 volume to run the application.

Correct Answer: *B*

Community vote distribution

D (100%)

😑 👗 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: D MOST cost-effectively =GP3 upvoted 3 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: D

gp3 offers SSD-performance at a 20% lower cost per GB than gp2 volumes. upvoted 2 times

😑 🎍 bojila 9 months, 2 weeks ago

GP3 is the lastest version upvoted 2 times

😑 💄 Hades2231 9 months, 2 weeks ago

Selected Answer: D

GP3 is the lastest version, and it is cost effective upvoted 2 times

😑 🌲 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: D

GP3 is preferable over GP2, FSx for Lustre, and FSx for OpenZFS is clear and convincing:

GP3 offers identical latency performance to GP2 at a lower price point. FSx options are higher performance but more expensive and require application changes. GP3 aligns better with lift and shift needs as a directly attached block storage volume. upvoted 2 times

😑 🌡 taustin2 10 months ago

Selected Answer: D

Migrate your Amazon EBS volumes from gp2 to gp3 and save up to 20% on costs. upvoted 2 times

😑 🌲 Vadbro7 10 months ago

Y not gp2

upvoted 1 times

😑 🌲 Ale1973 10 months, 1 week ago

Selected Answer: D

My rational:

Options A y C are based on autoscaling-group and no make sense for me on this scenary. Then, use Amazon EBS is the solution and GP2 or GP3 is the question. Requirement requires the most COST effective solution, then, I choose GP3 upvoted 3 times A company runs a stateful production application on Amazon EC2 instances. The application requires at least two EC2 instances to always be running.

A solutions architect needs to design a highly available and fault-tolerant architecture for the application. The solutions architect creates an Auto Scaling group of EC2 instances.

Which set of additional steps should the solutions architect take to meet these requirements?

A. Set the Auto Scaling group's minimum capacity to two. Deploy one On-Demand Instance in one Availability Zone and one On-Demand Instance in a second Availability Zone.

B. Set the Auto Scaling group's minimum capacity to four. Deploy two On-Demand Instances in one Availability Zone and two On-Demand Instances in a second Availability Zone.

C. Set the Auto Scaling group's minimum capacity to two. Deploy four Spot Instances in one Availability Zone.

D. Set the Auto Scaling group's minimum capacity to four. Deploy two On-Demand Instances in one Availability Zone and two Spot Instances in a second Availability Zone.

Correct Answer: D

Community vote distribution B (69%)

A (31%)

😑 🎍 luiscc (Highly Voted 🖬) 10 months, 2 weeks ago

Selected Answer: B

By setting the Auto Scaling group's minimum capacity to four, the architect ensures that there are always at least two running instances. Deploying two On-Demand Instances in each of two Availability Zones ensures that the application is highly available and fault-tolerant. If one Availability Zone becomes unavailable, the application can still run in the other Availability Zone. upvoted 15 times

E & Ale1973 [Highly Voted 🖬] 10 months, 1 week ago

Selected Answer: A

My rational is: Highly available = 2 AZ, and then 2 EC2 instances always running is 1 EC2 in each AZ. If an entire AZ fails, SacalinGroup deploy the minimum instances (2) on the running AZ

upvoted 12 times

😑 💄 baba365 8 months, 2 weeks ago

Ans: A.

The application requires at least two EC2 instances to always be running = 2 minimum capacity... minimum cap of 4 ec2 will work but a waste o resources that doesn't follow well archi. framework.

upvoted 1 times

😑 🌲 Ramdi1 8 months, 1 week ago

it says always have to have two running, hence you need 4. two in each AV. it might be a waste of resource but if that what is required by the company then so be it. Also you out the 4 you cannot use spot instances because if the two instances on the on demand go down and you need to use the spot instance they could be called back at any point.

upvoted 4 times

😑 🏝 Ramdi1 8 months, 1 week ago

AZ * not AV upvoted 2 times

😑 🆀 Marco_St Most Recent 🕗 5 months ago

Selected Answer: B

so indeed ASG can set up a new EC2 instance in another AZ if there is one AZ failed with fault but it failed to meet the need of always having 2 instance running before the new instance replacement is done in the working AZ. so this is why we deploy 2 instances per AZ upvoted 1 times

E **a** pentium75 5 months, 1 week ago

Selected Answer: B

If it would not mention the "stateful" application, and if it would only have to be "highly available" but NOT "fault-tolerant", A would be fine. upvoted 4 times

😑 💄 1rob 6 months, 2 weeks ago

Selected Answer: B

From <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/spot-best-practices.html : Spot Instances are not suitable for workloads that are inflexible, stateful, fault-intolerant, or tightly coupled between instance nodes. So C and D don't fit.

From <https://docs.aws.amazon.com/whitepapers/latest/real-time-communication-on-aws/use-multiple-availability-zones.html : Within the constructs of AWS, customers are encouraged to run their workloads in more than one Availability Zone. This ensures that customer applications can withstand even a complete Availability Zone failure - a very rare event in itself.

So a HA solution in this case implies a total of 4 instances, 2 per AZ.

upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: B

The main requirement here is a 'highly available and fault-tolerant architecture for the application', this covered by option B. The application requires at least two EC2 instances to always be running, main word here being 'atleast' which means more than two is ok. upvoted 1 times

😑 👗 Ramdi1 8 months, 1 week ago

Selected Answer: B

B - Need 2 in each AZ and you cant use spot instances as it could be recalled. upvoted 1 times

😑 🌲 Mandar15 8 months, 2 weeks ago

Selected Answer: B

Stateful is keyword here. 2 is minimum required all time. upvoted 1 times

🖃 💄 MII1975 9 months, 1 week ago

Selected Answer: A

If a complete AZ fails, autoscale will lunch a second EC2 in the running AZ. If that short period of time is not always, which is not, then the answer i B, but I would take my chances and select A in the exam xD because the application is highly available and fault-tolerant.

upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: B

- ° Minimum of 4 ensures at least 2 instances are always running in each AZ, meeting the HA requirement.
- ° On-Demand instances provide consistent performance and availability, unlike Spot.
- ° Spreading across 2 AZs adds fault tolerance, protecting from AZ failure. upvoted 2 times

😑 🌲 darkknight23 10 months, 1 week ago

Selected Answer: B

While Spot Instances can be used to reduce costs, they might not provide the same level of availability and guaranteed uptime that On-Demand Instances offer. So I will go with B and not D.

upvoted 1 times

😑 💄 Sat897 10 months, 1 week ago

Selected Answer: B

Highly available - 2 AZ and then 2 EC2 instances always running. 2 in each AZ. upvoted 2 times

😑 🌲 Sat897 10 months, 1 week ago

Highly available - 2 AZ and then 2 EC2 instances always running. 2 in each AZ.. upvoted 1 times

An ecommerce company uses Amazon Route 53 as its DNS provider. The company hosts its website on premises and in the AWS Cloud. The company's on-premises data center is near the us-west-1 Region. The company uses the eu-central-1 Region to host the website. The company wants to minimize load time for the website as much as possible.

Which solution will meet these requirements?

A. Set up a geolocation routing policy. Send the traffic that is near us-west-1 to the on-premises data center. Send the traffic that is near eucentral-1 to eu-central-1.

B. Set up a simple routing policy that routes all traffic that is near eu-central-1 to eu-central-1 and routes all traffic that is near the on-premises datacenter to the on-premises data center.

C. Set up a latency routing policy. Associate the policy with us-west-1.

D. Set up a weighted routing policy. Split the traffic evenly between eu-central-1 and the on-premises data center.

Correct Answer: A

Community vote distribution

A (83%)

C (17%)

😑 💄 awsgeek75 5 months ago

Selected Answer: A

https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy-geo.html B can be done but definition of "near" is ambiguous

C wrong region

D wrong solution as splitting evenly does not reduce latency for on-prem server users upvoted 1 times

😑 🌲 Cyberkayu 5 months, 3 weeks ago

Selected Answer: A

not C. Client do not have AWS us-west-1 region. Client have a on prem DC near west-1 not D. 2 people visit the site together near eu-central-1, one of the user may be thrown to west-1 due to load balancing on split even weighted policy.

A and B are both valid, latency = how soon user reach the datacenter and received a responses from the DC, round trip. So in short, geolocation or send user to the nearest DC will improve latency. upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Geolocation routing policy allows you to route traffic based on the location of your users. upvoted 2 times

😑 🛔 t0nx 6 months, 3 weeks ago

Selected Answer: C

C. Set up a latency routing policy. Associate the policy with us-west-1.

Explanation:

A latency routing policy directs traffic based on the lowest network latency to the specified AWS endpoint. Since the on-premises data center is near the us-west-1 Region, associating the policy with us-west-1 ensures that users near that region will be directed to the on-premises data center.

This allows for optimal routing, minimizing the load time for users based on their geographical proximity to the respective hosting locations (uswest-1 and eu-central-1).

Options A, B, and D do not explicitly consider latency or are not optimal for minimizing load time:

Option A (geolocation routing policy) would direct traffic based on the geographic location of the user but may not necessarily optimize for the lowest latency.

upvoted 2 times

😑 🌲 awsgeek75 4 months, 3 weeks ago

There is nothing in us-west-1 as the company's data centre is near us-west-1. upvoted 1 times

😑 🌲 Chiquitabandita 6 months, 3 weeks ago

except I don't think that it should be applied to the west region. If Geolocation is applied and the west is closer to the client, but the west is having intermittent issues at the time, they will have a longer latency even though closer to that region. this is why I would apply latency in a real world solution.

upvoted 1 times

😑 🌲 Chiquitabandita 6 months, 3 weeks ago

in real world I think it should use latency routing if the main concern is to lower the latency but AWS likes to promote geolocation and if that is in the question I think that will be the answer so I choose A. upvoted 1 times

😑 💄 baba365 8 months, 2 weeks ago

The company wants to minimize load time for the website as much as possible... between data Centre and website or between users and website? upvoted 1 times

😑 💄 Hades2231 9 months, 2 weeks ago

Selected Answer: A

Geolocation is the key word upvoted 1 times

😑 💄 lemur88 9 months, 2 weeks ago

Selected Answer: A

https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy-geo.html upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: A

The key reasons are:

Geolocation routing allows you to route users to the closest endpoint based on their geographic location. This will provide the lowest latency. Routing us-west-1 traffic to the on-premises data center minimizes latency for those users since it is also located near there. Routing eu-central-1 traffic to the eu-central-1 AWS region minimizes latency for users nearby. This achieves routing users to the closest endpoint on a geographic basis to optimize for low latency. upvoted 4 times

E & PLN6302 9 months, 3 weeks ago

why can't be the option C upvoted 1 times

😑 👗 lemur88 9 months, 2 weeks ago

You cannot associate the policy to us-west-1 as the AWS account is in eu-central-1 upvoted 3 times

Which solution will meet these requirements MOST cost-effectively?

A. Read the data from the tapes on premises. Stage the data in a local NFS storage. Use AWS DataSync to migrate the data to Amazon S3 Glacier Flexible Retrieval.

B. Use an on-premises backup application to read the data from the tapes and to write directly to Amazon S3 Glacier Deep Archive.

C. Order multiple AWS Snowball devices that have Tape Gateway. Copy the physical tapes to virtual tapes in Snowball. Ship the Snowball devices to AWS. Create a lifecycle policy to move the tapes to Amazon S3 Glacier Deep Archive.

D. Configure an on-premises Tape Gateway. Create virtual tapes in the AWS Cloud. Use backup software to copy the physical tape to the virtual tape.

Correct Answer: C

Community vote distribution

😑 👗 adeyinkaamole (Highly Voted 🖬) 9 months, 2 weeks ago

C (97%)

If you have made it to the end of the exam dump, you will definitely pass your exams in Jesus name. After over a year of Procrastination, I am finally ready to write my AWS Solutions Architect Exam. Thank you Exam Topics upvoted 20 times

😑 👗 Hades2231 (Highly Voted 🖬) 9 months, 2 weeks ago

Selected Answer: C

Ready for the exam tomorrow. Wish you guys all the best. BTW Snowball Device comes in handy when you need to move a huge amount of data but cant afford any bandwidth loss

upvoted 10 times

😑 🌲 awsgeek75 (Most Recent 🕗) 5 months ago

Selected Answer: C

5PB over 1GB connection will take approximately 15 months so anything with "transfer" is invalid. ABD are not practical. C: Just order snowball

upvoted 2 times

😑 💄 pentium75 5 months, 1 week ago

Selected Answer: C

Though we'll need more than 60 Snowball devices, C is the only option that works. The internet uplink could transport less than 2 PB in 6 months (otherwise, say with a 10 Gb uplink, D would work).

upvoted 4 times

😑 💄 Cyberkayu 5 months, 3 weeks ago

transfer 5 PB data in 1Gbps link, assume 0 overhead and drop packet, need 485 days, 10 hours, 50 minutes, 40 seconds to complete.

Snowball it is. C

upvoted 1 times

😑 🌲 SHAAHIBHUSHANAWS 6 months, 1 week ago

С

https://docs.aws.amazon.com/storagegateway/latest/tgw/using-tape-gateway-snowball.html upvoted 1 times

E **L** TariqKipkemei 6 months, 3 weeks ago

Selected Answer: C

Migrate petabyte-scale data stored on physical tapes to AWS using AWS Snowball https://aws.amazon.com/snowball/#:~:text=Migrate-,petabyte%2Dscale,-data%20stored%20on upvoted 1 times

😑 🌲 hungta 6 months, 4 weeks ago

Selected Answer: C

5 PB data is too huge for using 1Gbps uplink. With this uplink, it takes more than 1 year to migrate this data. upvoted 1 times

😑 💄 baba365 8 months, 2 weeks ago

Answer: D for most cost effective.

If you are looking for a cost-effective, durable, long-term, offsite alternative for data archiving, deploy a Tape Gateway. With its virtual tape library (VTL) interface, you can use your existing tape-based backup software infrastructure to store data on virtual tape cartridges that you create -

https://docs.aws.amazon.com/storagegateway/latest/tgw/WhatIsStorageGateway.html upvoted 1 times

😑 💄 Devsin2000 8 months, 3 weeks ago

D

https://aws.amazon.com/storagegateway/vtl/ the bandwidth and available time is ample upvoted 1 times

😑 💄 nnecode 8 months, 3 weeks ago

Selected Answer: A

The most cost-effective solution to meet the requirements is to read the data from the tapes on premises. Stage the data in a local NFS storage. Use AWS DataSync to migrate the data to Amazon S3 Glacier Flexible Retrieval.

This solution is the most cost-effective because it uses the least amount of bandwidth. AWS DataSync is a service that transfers data between onpremises storage and Amazon S3. It uses a variety of techniques to optimize the transfer speed and reduce c upvoted 1 times

😑 💄 lemur88 9 months, 2 weeks ago

Selected Answer: C

Only thing that makes sense given the 1Gbps limitation upvoted 1 times

😑 💄 Guru4Cloud 9 months, 3 weeks ago

Selected Answer: C

Option C is likely the most cost-effective solution given the large data size and limited internet bandwidth. The physical data transfer and integration with the existing tape infrastructure provides efficiency benefits that can optimize the cost. upvoted 2 times

😑 🌲 barracouto 10 months ago

Selected Answer: C

Went through this dump twice now. Exam is in about an hour. Will update with results. upvoted 2 times

😑 🌲 Vaishali12 9 months, 3 weeks ago

how was ur exam? was these dump que helpful? upvoted 1 times

😑 🌲 riccardoto 10 months ago

Finished the dump today - taking my exam tomorrow :-) Wish me luck! upvoted 4 times

😑 📥 Ale1973 10 months, 1 week ago

My rational: question is about which solution will meet these requirements MOST cost-effectively, not MOST time or effectively, then, my response is D (using Tape Gateways)

upvoted 4 times

😑 💄 D10SJoker 10 months, 1 week ago

Selected Answer: C For me it's C

upvoted 1 times

A company is deploying an application that processes large quantities of data in parallel. The company plans to use Amazon EC2 instances for the workload. The network architecture must be configurable to prevent groups of nodes from sharing the same underlying hardware.

Which networking solution meets these requirements?

- A. Run the EC2 instances in a spread placement group.
- B. Group the EC2 instances in separate accounts.
- C. Configure the EC2 instances with dedicated tenancy.
- D. Configure the EC2 instances with shared tenancy.

Community vote distribution

A (81%)

C (19%)

😑 🌲 czyboi (Highly Voted 🖬) 9 months, 2 weeks ago

Selected Answer: A

A spread placement group is a group of instances that are each placed on distinct hardware. https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html upvoted 10 times

😑 👗 Guru4Cloud (Highly Voted 🖬) 9 months ago

Selected Answer: C

C is the correct answer.

Configuring the EC2 instances with dedicated tenancy ensures that each instance will run on isolated, single-tenant hardware. This meets the requirement to prevent groups of nodes from sharing underlying hardware.

A spread placement group only provides isolation at the Availability Zone level. Instances could still share hardware within an AZ. upvoted 5 times

😑 🎍 pentium75 5 months, 1 week ago

No. C ensures that your EC2 instances run on hardware that is not shared with other customers (!). It is still shared among YOUR instances. upvoted 3 times

E & Marco_St Most Recent) 5 months ago

Selected Answer: A

dedicated tenancy cannot ensure the instances share the same hardware. So A upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: A

A, spread placement group does exactly what is required here.

Not C and D, tenancy determines whether the hardware is shared with other customers or not, it has nothing to with your own instances sharing hardware. (On the contrary, dedicated tenancy would spread your EC2 instances across as little nodes as possible.)

Not B, accounts have nothing to do with the issue.

upvoted 4 times

😑 💄 maged123 5 months, 3 weeks ago

Selected Answer: A

Let's assume that you have two groups of instances, group A and group B and you have two physical hardware X and Y. With spread placement group, you can have group A of instances on hardware X and group B on hardware Y but this will not prevent hardware X to host other instances c other customers because your only requirement is to separate group A from group B. On the other hand, the dedicated tenancy means that AWS will dedicate the physical hardware only for you. So, the correct answer is A.

upvoted 2 times

😑 🌡 Murtadhaceit 6 months ago

Question is ambiguous and confusing. Is it asking about the EC2 instance of the same application not sharing hardware? or EC2 instance not sharing hardware with other EC2 from other applications?

upvoted 1 times

😑 💄 Mikado211 6 months, 1 week ago

Selected Answer: A

Spread placement group allows you to isolate your instances on hardware level. Dedicated tenancy allows you to be sure that you are the only customer on the hardware.

The correct answer is A.

upvoted 1 times

😑 🌲 Mikado211 6 months, 1 week ago

A : Spread placement group upvoted 1 times

😑 💄 lucasbg 6 months, 2 weeks ago

Selected Answer: A

Def is A: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html upvoted 1 times

😑 🏝 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Keywords 'prevent groups of nodes from sharing the same underlying hardware'. Spread Placement Group strictly places a small group of instances across distinct underlying hardware to reduce correlated failures. upvoted 1 times

😑 🌲 cciesam 7 months ago

Selected Answer: A

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html Each instances is placed on seven different racks, each rack has its own network and power source. upvoted 1 times

😑 🌲 wsdasdasdqwdaw 7 months, 3 weeks ago

Another tricky question, but I would go for A because:

Dedicated instances:

Dedicated Instances are EC2 instances that run on hardware that's dedicated to a single customer. Dedicated Instances that belong to different AWS accounts are physically isolated at a hardware level, even if those accounts are linked to a single payer account. However, Dedicated Instance: might share hardware with other instances from the same AWS account that are not Dedicated Instances. Which is not the desired option.

Spread – strictly places a small group of instances across distinct underlying hardware to reduce correlated failures.

That's why A. upvoted 2 times

😑 💄 garuta 8 months, 2 weeks ago

Selected Answer: C

C is clear. upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Dedicated tenancy" means that all your nodes run on hardware that is not shared with other customers. This is counter-productive to the objective here.

upvoted 1 times

😑 💄 Devsin2000 8 months, 3 weeks ago

А

When you launch a new EC2 instance, the EC2 service attempts to place the instance in such a way that all of your instances are spread out across underlying hardware to minimize correlated failures.

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html upvoted 2 times

😑 🏝 taustin2 8 months, 3 weeks ago

Selected Answer: A

Spread Placement Group strictly places a small group of instances across distinct underlying hardware to reduce correlated failures. upvoted 1 times

😑 🌲 Eminenza22 9 months, 2 weeks ago

Selected Answer: A

Option A is the correct answer. It suggests running the EC2 instances in a spread placement group. This solution is cost-effective and requires minimal development effort .

upvoted 2 times

😑 🌲 Eminenza22 9 months, 2 weeks ago

The placement group reduces the risk of simultaneous failures by spreading the instances across distinct underlying hardware upvoted 1 times

A solutions architect is designing a disaster recovery (DR) strategy to provide Amazon EC2 capacity in a failover AWS Region. Business requirements state that the DR strategy must meet capacity in the failover Region.

Which solution will meet these requirements?

- A. Purchase On-Demand Instances in the failover Region.
- B. Purchase an EC2 Savings Plan in the failover Region.
- C. Purchase regional Reserved Instances in the failover Region.
- D. Purchase a Capacity Reservation in the failover Region.

Correct Answer: C

Community vote distribution

D (93%)

7%

😑 💄 awsgeek75 5 months ago

Selected Answer: D

"Business requirements state that the DR strategy must meet capacity in the failover Region" so only D meets these requirements

A. No reservation of capacity

B. Saving plans don't guarantee capacity

C. Can be possible but it's like an active instance so doesn't really make sense

upvoted 2 times

😑 🌲 awsgeek75 5 months ago

Correction on C (I mixed it up with tenancy!). Reserved instance are not really for capacity, its for type of instance which gives good discount bu that is not required here.

upvoted 1 times

😑 🌲 Derek_G 5 months, 2 weeks ago

Selected Answer: D

Purchase a Capacity Reservation in the failover Region:

A Capacity Reservation allows you to reserve a specific amount of EC2 instance capacity in a given region without purchasing specific instances. This reserved capacity is dedicated to your account and can be utilized for launching instances when needed. Capacity Reservations offer flexibility allowing you to launch different instance types and sizes within the reserved capacity.

Purchase regional Reserved Instances in the failover Region:

Regional Reserved Instances involve paying an upfront fee to reserve a certain number of specific EC2 instances in a particular region. These reserved instances are of a predefined type and size, providing a more traditional reservation model. Regional Reserved Instances are specific to a designated region and ensure that the reserved instances of a particular specification are available when needed.

😑 🌲 TheLaPlanta 2 months, 3 weeks ago

What I don't get is... can't you accomplish that by using on-demand? I understood that you can scale infinitely upvoted 1 times

😑 💄 Tanidanindo 2 months, 2 weeks ago

It won't guarantee that you have the capacity when you need it. If available, like in most cases, it'll work. But the scenario requires a guarantee that the capacity will be available.

upvoted 1 times

E & SHAAHIBHUSHANAWS 6 months, 1 week ago

D

Ask is to reserve capacity with RI capacity is not reserved also you can reserve capacity along with RI but only in AZ. https://repost.aws/knowledge-center/ri-reserved-capacity upvoted 1 times

E **L** TariqKipkemei 6 months, 3 weeks ago

Selected Answer: D

Capacity Reservations mitigate against the risk of being unable to get On-Demand capacity in case there are capacity constraints. If you have strict capacity requirements, and are running business-critical workloads that require a certain level of long or short-term capacity assurance, create a Capacity Reservation to ensure that you always have access to Amazon EC2 capacity when you need it, for as long as you need it. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: D

Capacity Reservations enable you to reserve capacity for your Amazon EC2 instances in a specific Availability Zone for any duration. This gives you the flexibility to selectively add capacity reservations and still get the Regional RI discounts for that usage. By creating Capacity Reservations, you ensure that you always have access to Amazon EC2 capacity when you need it, for as long as you need it. upvoted 2 times

😑 💄 potomac 7 months, 1 week ago

Savings Plans does not provide a capacity reservation. upvoted 1 times

😑 🌲 Guru4Cloud 9 months ago

Selected Answer: D

Capacity Reservations allocate EC2 capacity in a specific AWS Region for you to launch instances.

The capacity is reserved and available to be utilized when needed, meeting the requirement to provide EC2 capacity in the failover region. Other options do not reserve capacity. On-Demand provides flexible capacity but does not reserve capacity upfront. Savings Plans and Reserved Instances provide discounts but do not reserve capacity.

Capacity Reservations allow defining instance attributes like instance type, platform, Availability Zone so the reserved capacity matches the production environment.

upvoted 3 times

😑 💄 Eminenza22 9 months, 1 week ago

Selected Answer: D

A regional Reserved Instance does not reserve capacity https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/reserved-instances-scope.html upvoted 1 times

😑 💄 judyda 9 months, 1 week ago

Selected Answer: D

reserved instances for price discount. need capacity reservation. upvoted 2 times

😑 💄 gispankaj 9 months, 2 weeks ago

Selected Answer: C

The Reserved Instance discount applies to instance usage within the instance family, regardless of size. upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Reserved Instances are not physical instances, but rather a billing discount "

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-reserved-instances.html upvoted 1 times

😑 💄 ErnShm 9 months, 2 weeks ago

D

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-capacity-reservations.html upvoted 1 times

A company has five organizational units (OUs) as part of its organization in AWS Organizations. Each OU correlates to the five businesses that the company owns. The company's research and development (R&D) business is separating from the company and will need its own organization. A solutions architect creates a separate new management account for this purpose.

What should the solutions architect do next in the new management account?

A. Have the R&D AWS account be part of both organizations during the transition.

B. Invite the R&D AWS account to be part of the new organization after the R&D AWS account has left the prior organization.

C. Create a new R&D AWS account in the new organization. Migrate resources from the prior R&D AWS account to the new R&D AWS account.

D. Have the R&D AWS account join the new organization. Make the new management account a member of the prior organization.

Correct Answer: C			
<i>Community vote distribution</i> B (85%)	C (15%)		

😑 🌲 awsgeek75 (Highly Voted 🖬) 5 months ago

Selected Answer: B

An account can only join another org when it leaves the first org. A is wrong as it's not possible C that's a new account so not really a migration D The R&D department is separating from the company so you don't want the OU to join via nesting upvoted 6 times

□ ▲ Marco_St Most Recent ② 5 months ago

Selected Answer: B

https://aws.amazon.com/blogs/mt/migrating-accounts-between-aws-organizations-with-consolidated-billing-to-all-features/ upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: B

B as exactly described here: https://repost.aws/knowledge-center/organizations-move-accounts upvoted 4 times

😑 💄 ale_brd_ 5 months, 2 weeks ago

Selected Answer: B

https://repost.aws/knowledge-center/organizations-move-accounts Remove the member account from the old organization. Send an invite to the member account from the new organization. Accept the invite to the new organization from the member account. upvoted 2 times

E Scherchard Scherchar

Selected Answer: C

C is better. first migrate , then delete. avoid the data lose. upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

What kind of "data lose" would happen when you change the account to a new organization? And why should you migrate ALL RESOURCES of the account to a new account?

upvoted 1 times

E & Derek_G 5 months, 2 weeks ago

C is better. first migrate , then delete. avoid the data lose. upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: B

As per this document, B is clearly the answer.

https://repost.aws/knowledge-center/organizations-move-accounts#:~:text=In%20either%20case%2C-,perform%20these%20actions,-for%20each%20member

upvoted 1 times

😑 💄 Joben 8 months, 2 weeks ago

Selected Answer: B

In either case, perform these actions for each member account:

- Remove the member account from the old organization.
- Send an invite to the member account from the new organization.
- Accept the invite to the new organization from the member account.

https://repost.aws/knowledge-center/organizations-move-accounts upvoted 4 times

😑 💄 Guru4Cloud 8 months, 3 weeks ago

Selected Answer: C

Creating a brand new AWS account in the new organization (Option C) allows for a clean separation and migration of only the necessary resources from the old account to the new.

upvoted 2 times

😑 🏝 pentium75 5 months, 1 week ago

"A clean separation" is already existing, they have their own account. "Migration of only the necessary resources from the old account to the new" is not asked for. They have an account in an existing organization, they need their own organization, thus move the existing account to a new organisation (B), done.

upvoted 1 times

😑 👗 Guru4Cloud 9 months ago

Selected Answer: C

When separating a business unit from an AWS Organizations structure, best practice is to:

Create a new AWS account dedicated for the business unit in the new organization

Migrate resources from the old account to the new account

Remove the old account from the original organization

This allows a clean break between the organizations and avoids any linking between them after separation.

upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

Says who? upvoted 1 times

😑 🌲 ErnShm 9 months, 2 weeks ago

В

https://aws.amazon.com/blogs/mt/migrating-accounts-between-aws-organizations-with-consolidated-billing-to-all-features/ upvoted 2 times

😑 💄 gispankaj 9 months, 2 weeks ago

Selected Answer: B

account can leave current organization and then join new organization. upvoted 3 times

A company is designing a solution to capture customer activity in different web applications to process analytics and make predictions. Customer activity in the web applications is unpredictable and can increase suddenly. The company requires a solution that integrates with other web applications. The solution must include an authorization step for security purposes.

Which solution will meet these requirements?

A. Configure a Gateway Load Balancer (GWLB) in front of an Amazon Elastic Container Service (Amazon ECS) container instance that stores the information that the company receives in an Amazon Elastic File System (Amazon EFS) file system. Authorization is resolved at the GWLB.

B. Configure an Amazon API Gateway endpoint in front of an Amazon Kinesis data stream that stores the information that the company receives in an Amazon S3 bucket. Use an AWS Lambda function to resolve authorization.

C. Configure an Amazon API Gateway endpoint in front of an Amazon Kinesis Data Firehose that stores the information that the company receives in an Amazon S3 bucket. Use an API Gateway Lambda authorizer to resolve authorization.

D. Configure a Gateway Load Balancer (GWLB) in front of an Amazon Elastic Container Service (Amazon ECS) container instance that stores the information that the company receives on an Amazon Elastic File System (Amazon EFS) file system. Use an AWS Lambda function to resolve authorization.

Correct Answer: D

Community vote distribution

😑 👗 ralfj (Highly Voted 🖬 9 months, 2 weeks ago

C (81%)

Selected Answer: C

https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-use-lambda-authorizer.html upvoted 6 times

B (19%)

😑 👗 Matte_ (Most Recent 🕗) 2 weeks, 5 days ago

Selected Answer: B

https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-use-lambda-authorizer.html upvoted 1 times

😑 🌲 Mr_Marcus 1 week, 6 days ago

Ummm. This link (Use API Gateway Lambda authorizers) helps to validate "C" as the correct answer, not "B". upvoted 1 times

😑 👗 4fad2f8 4 months, 3 weeks ago

Selected Answer: B

B. Amazon Kinesis Data Firehose does not save anything upvoted 2 times

😑 🌲 jaswantn 4 months ago

option C...Amazon Kinesis Data Firehose that stores the information (that the company receives) in an Amazon S3 bucket. This answer statement is worded in a complex way. It means to say that Firehose stores the data in S3 ...which company receives from API Gateway.

upvoted 2 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: C

Configure an Amazon API Gateway endpoint in front of an Amazon Kinesis Data Firehose that stores the information that the company receives in an Amazon S3 bucket. Use an API Gateway Lambda authorizer to resolve authorization. upvoted 3 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

Using ECS just to stores the information is a overkill. So B or C then, lambda authoriser is the key word => C upvoted 3 times

😑 🌲 Eminenza22 9 months, 2 weeks ago

Selected Answer: C

https://docs.aws.amazon.com/lambda/latest/dg/services-kinesisfirehose.html upvoted 2 times

😑 💄 ErnShm 9 months, 2 weeks ago

С

authorizer is configured for the method. If it is, API Gateway calls the Lambda function. The Lambda function authenticates the caller by means such as the following: Calling out to an OAuth provider to get an OAuth access token

upvoted 2 times

😑 💄 gispankaj 9 months, 2 weeks ago

Selected Answer: C

lambda authoriser seems to be logical solution. upvoted 2 times

Which solution will meet these requirements MOST cost-effectively?

A. Create a cross-Region read replica and promote the read replica to the primary instance.

B. Use AWS Database Migration Service (AWS DMS) to create RDS cross-Region replication.

C. Use cross-Region replication every 24 hours to copy native backups to an Amazon S3 bucket.

D. Copy automatic snapshots to another Region every 24 hours.

Correct Answer: *B*

Community vote distribution

D (100%)

😑 🌲 awsgeek75 5 months ago

Selected Answer: D

Cross region data transfer is billable so think of smallest amount of data to transfer every 24 hours upvoted 3 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: D

Amazon RDS creates and saves automated backups of your DB instance or Multi-AZ DB cluster during the backup window of your DB instance. RDS creates a storage volume snapshot of your DB instance, backing up the entire DB instance and not just individual databases. RDS saves the automated backups of your DB instance according to the backup retention period that you specify. If necessary, you can recover your DB instance to any point in time during the backup retention period.

upvoted 2 times

😑 🌲 wsdasdasdqwdaw 7 months, 2 weeks ago

most cost-effective way is just copying the snapshot (24h delta in the storage). => D upvoted 2 times

😑 🌲 Guru4Cloud 9 months ago

Selected Answer: D Dddddddddd upvoted 3 times

😑 💄 Eminenza22 9 months, 1 week ago

Selected Answer: D

This is the most cost-effective solution because it does not require any additional AWS services. Amazon RDS automatically creates snapshots of your DB instances every hour. You can copy these snapshots to another Region every 24 hours to meet your RPO and RTO requirements.

The other solutions are more expensive because they require additional AWS services. For example, AWS DMS is a more expensive service than AWS RDS.

upvoted 3 times

😑 🌲 TiagueteVital 9 months, 1 week ago

Selected Answer: D

Snapshots are always a cost-efficience way to have a DR plan. upvoted 3 times A company runs a web application on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer that has sticky sessions enabled. The web server currently hosts the user session state. The company wants to ensure high availability and avoid user session state loss in the event of a web server outage.

Which solution will meet these requirements?

A. Use an Amazon ElastiCache for Memcached instance to store the session data. Update the application to use ElastiCache for Memcached to store the session state.

B. Use Amazon ElastiCache for Redis to store the session state. Update the application to use ElastiCache for Redis to store the session state.

C. Use an AWS Storage Gateway cached volume to store session data. Update the application to use AWS Storage Gateway cached volume to store the session state.

D. Use Amazon RDS to store the session state. Update the application to use Amazon RDS to store the session state.

Correct /	Answer: D	
Comm	unity vote distribution	
	B (88%)	12%
😑 🌲 Gu	rru4Cloud (Highly Voted 🖬) 9 months ago	
Select	ted Answer: B	
The k	ey points are:	
Redis The a If a w availa	supports replication and multi-AZ which can pplication can be updated to store session d	at can deliver microsecond latency for session data. In provide high availability for the cache. lata in ElastiCache Redis rather than locally on the web servers. In International Internation International Internationa International International International International International International International International International Internation International International Internation International International Internation International Internationa
😑 🌡 pe	ntium75 Most Recent ① 5 months, 1 week ago	
Select	ted Answer: B	
As M	emcached is not HA	
upvo	ted 3 times	
😑 🌲 SH	IAAHIBHUSHANAWS 6 months, 1 week ago	
A		
	che needs to be distributed as ALB is used. ted 1 times	
	tomac 7 months, 1 week ago	
-	ted Answer: B orrect	
	ted 2 times	
🖃 📥 fra	anbarberan 8 months, 2 weeks ago	

Selected Answer: D

Elastic cache is Only for RDS upvoted 3 times

😑 🌲 pentium75 5 months, 1 week ago

Since when?

upvoted 3 times

😑 🌲 gispankaj 9 months, 2 weeks ago

Selected Answer: B

redis is correct since it provides high availability and data persistance upvoted 4 times

😑 🌲 Eminenza22 9 months, 2 weeks ago

Selected Answer: B

B is the correct answer. It suggests using Amazon ElastiCache for Redis to store the session state. Update the application to use ElastiCache for Redis to store the session state. This solution is cost-effective and requires minimal development effort.

upvoted 3 times

E **& czyboi** 9 months, 2 weeks ago

Selected Answer: B

high availability => use redis instead of Elastich memcache upvoted 4 times

Question #590

Topic 1

A company migrated a MySQL database from the company's on-premises data center to an Amazon RDS for MySQL DB instance. The company sized the RDS DB instance to meet the company's average daily workload. Once a month, the database performs slowly when the company runs queries for a report. The company wants to have the ability to run reports and maintain the performance of the daily workloads.

Which solution will meet these requirements?

A. Create a read replica of the database. Direct the queries to the read replica.

B. Create a backup of the database. Restore the backup to another DB instance. Direct the queries to the new database.

C. Export the data to Amazon S3. Use Amazon Athena to query the S3 bucket.

D. Resize the DB instance to accommodate the additional workload.

Correct Answer: A

Community vote distribution

A (100%)

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A queries for reports = read replica upvoted 2 times

😑 🌲 Guru4Cloud 9 months ago

Selected Answer: A

Create a read replica of the database. Direct the queries to the read replica. upvoted 3 times

😑 🌲 Eminenza22 9 months, 1 week ago

Selected Answer: A

This is the most cost-effective solution because it does not require any additional AWS services. A read replica is a copy of a database that is synchronized with the primary database. You can direct the queries for the report to the read replica, which will not affect the performance of the daily workloads

upvoted 2 times

😑 💄 TiagueteVital 9 months, 1 week ago

Selected Answer: A

Clearly the right choice, with a read replica all the queries needed for a report are done in the replica, leaving the primary on best perfomance for write

upvoted 2 times

A company runs a container application by using Amazon Elastic Kubernetes Service (Amazon EKS). The application includes microservices that manage customers and place orders. The company needs to route incoming requests to the appropriate microservices.

Which solution will meet this requirement MOST cost-effectively?

A. Use the AWS Load Balancer Controller to provision a Network Load Balancer.

- B. Use the AWS Load Balancer Controller to provision an Application Load Balancer.
- C. Use an AWS Lambda function to connect the requests to Amazon EKS.
- D. Use Amazon API Gateway to connect the requests to Amazon EKS.

Correct Answer: C
Community vote distribution
B (76%)

D (24%)

😑 🌲 awsgeek75 (Highly Voted 🖬) 5 months ago

Selected Answer: B

"The company needs to route incoming requests to the appropriate microservices" In Kubernetes world, this would be called an Ingress Service so it will need B https://kubernetes-sigs.github.io/aws-load-balancer-controller/v2.6/ https://kubernetes.io/docs/concepts/services-networking/ingress/ upvoted 5 times

E & pentium75 Most Recent) 5 months, 1 week ago

Selected Answer: B

Not D because

- even with an API gateway you'd need an ALB or ELB (so B+D would work, but D alone does not)

 - you would use AWS API Gateway Controller (not "Amazon API Gateway") to create the API Gateway upvoted 3 times

😑 🌲 pentium75 5 months, 1 week ago

https://aws.amazon.com/blogs/containers/microservices-development-using-aws-controllers-for-kubernetes-ack-and-amazon-eks-blueprints/

https://aws.amazon.com/blogs/containers/integrate-amazon-api-gateway-with-amazon-eks/ upvoted 3 times

😑 🌲 Wuhao 6 months ago

Selected Answer: B

ALB is cost-effectively upvoted 3 times

😑 🌲 Mikado211 6 months ago

Selected Answer: B

ALB is considered as expensive than API Gateway, particularly on higher load.

If you do not need any specific functionalities of API Gateway so you must choose ALB because it will be cheaper. upvoted 3 times

😑 🌲 Mikado211 6 months ago

ALB is considered as LESS expensive upvoted 1 times

😑 🌲 riyasara 6 months, 1 week ago

Selected Answer: B

API Gateway has a pricing model that includes a cost per API call, and depending on the volume of requests, this could potentially be more expensive than using an Application Load Balancer.

upvoted 3 times

😑 💄 1rob 6 months, 2 weeks ago

Selected Answer: B

Routing requests to the appr. microserv. can easily be done with ALB and ingress. The ingress handles routing rules to the micro.serv. With answer D you wil still need ALB or NLB as can be seen in the pics of https://aws.amazon.com/blogs/containers/integrate-amazon-api-gateway-with-amazon-eks/ or https://aws.amazon.com/blogs/containers/microservices-development-using-aws-controllers-for-kubernetes-ack-and-amazon-eks-blueprints/ so that is not the most cost-effectively.

upvoted 2 times

😑 💄 ale_brd_ 5 months, 2 weeks ago

yeah, I was going with D than checked and seems that you are right to deploy API gateway you still a LB upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: D

Both ALB and API gateway can be used to route traffic to the microservices, but the question seeks the most 'cost effective' option.

You are charged for each hour or partial hour that an Application Load Balancer is running, and the number of Load Balancer Capacity Units (LCU) used per hour.

With Amazon API Gateway, you only pay when your APIs are in use.

I say API gateway is the best option for this case. upvoted 1 times

😑 💄 pentium75 5 months, 1 week ago

But you still need an ALB or ELB

https://aws.amazon.com/blogs/containers/microservices-development-using-aws-controllers-for-kubernetes-ack-and-amazon-eks-blueprints/

https://aws.amazon.com/blogs/containers/integrate-amazon-api-gateway-with-amazon-eks/ upvoted 1 times

😑 🌲 t0nx 6 months, 3 weeks ago

Selected Answer: B

AWS Load Balancer Controller: The AWS Load Balancer Controller is a Kubernetes controller that makes it easy to set up an Application Load Balancer (ALB) or Network Load Balancer (NLB) for your Amazon EKS clusters. It simplifies the process of managing load balancers for applications running on EKS.

Application Load Balancer (ALB): ALB is a Layer 7 load balancer that is capable of routing requests based on content, such as URL paths or hostnames. This makes it suitable for routing requests to different microservices based on specific criteria.

Cost-Effectiveness: ALB is typically more cost-effective than an NLB, and it provides additional features at the application layer, which may be useful for routing requests to microservices based on specific conditions.

Option D: Amazon API Gateway is designed for creating, publishing, and managing APIs. While it can integrate with Amazon EKS, it may be more feature-rich and complex than needed for simple routing to microservices within an EKS cluster. upvoted 3 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: D

API Gateway provides an entry point to your microservices.

https://aws.amazon.com/blogs/containers/integrate-amazon-api-gateway-with-amazon-eks/ upvoted 1 times

😑 👗 ccmc 7 months, 1 week ago

B is correct, it is a required before exposing through api gateway upvoted 1 times

😑 💄 thanhnv142 7 months, 2 weeks ago

B: is correct. For EKS, use application load balancer to expose microservices upvoted 3 times

😑 💄 KhasDenis 8 months, 2 weeks ago

Selected Answer: B

Routing to ms in k8s -> Ingresses -> Ingress Controller -> AWS Load Balancer Controller https://kubernetes-sigs.github.io/aws-load-balancercontroller/v2.6/ upvoted 3 times

😑 💄 RDM10 8 months, 3 weeks ago

Microservices--> API--> API GW upvoted 3 times

😑 💄 Guru4Cloud 9 months ago

Selected Answer: D

D. Use Amazon API Gateway to connect the requests to Amazon EKS. upvoted 3 times

😑 💄 MII1975 9 months, 1 week ago

Selected Answer: D

API Gateway is a fully managed service that makes it easy for you to create, publish, maintain, monitor, and secure APIs at any scale. API Gateway provides an entry point to your microservices.

upvoted 1 times

😑 💄 Eminenza22 9 months, 2 weeks ago

Selected Answer: D

https://aws.amazon.com/blogs/containers/microservices-development-using-aws-controllers-for-kubernetes-ack-and-amazon-eks-blueprints/ upvoted 1 times

😑 🏝 ralfj 9 months, 2 weeks ago

Selected Answer: D

https://aws.amazon.com/blogs/containers/integrate-amazon-api-gateway-with-amazon-eks/ upvoted 1 times

A company uses AWS and sells access to copyrighted images. The company's global customer base needs to be able to access these images quickly. The company must deny access to users from specific countries. The company wants to minimize costs as much as possible.

Which solution will meet these requirements?

A. Use Amazon S3 to store the images. Turn on multi-factor authentication (MFA) and public bucket access. Provide customers with a link to the S3 bucket.

B. Use Amazon S3 to store the images. Create an IAM user for each customer. Add the users to a group that has permission to access the S3 bucket.

C. Use Amazon EC2 instances that are behind Application Load Balancers (ALBs) to store the images. Deploy the instances only in the countries the company services. Provide customers with links to the ALBs for their specific country's instances.

D. Use Amazon S3 to store the images. Use Amazon CloudFront to distribute the images with geographic restrictions. Provide a signed URL for each customer to access the data in CloudFront.

Correct Answer: C

Community vote distribution

D (100%)

😑 💄 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: D

Store images = Amazon S3 global customer base needs to be able to access these images quickly = Amazon CloudFront deny access to users from specific countries = Amazon CloudFront geographic restrictions, signed URLs upvoted 3 times

Guru4Cloud 9 months ago

Selected Answer: D

D. Use Amazon S3 to store the images. Use Amazon CloudFront to distribute the images with geographic restrictions. Provide a signed URL for each customer to access the data in CloudFront.

upvoted 3 times

😑 📥 Colz 9 months ago

Correct answer is D upvoted 1 times

😑 💄 hubbabubba 9 months, 1 week ago

Selected Answer: D answer is D upvoted 1 times

😑 💄 Eminenza22 9 months, 2 weeks ago

Selected Answer: D

https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/georestrictions.html upvoted 2 times

😑 上 ralfj 9 months, 2 weeks ago

Selected Answer: D

Use Cloudfront and geographic restriction upvoted 4 times

A solutions architect is designing a highly available Amazon ElastiCache for Redis based solution. The solutions architect needs to ensure that failures do not result in performance degradation or loss of data locally and within an AWS Region. The solution needs to provide high availability at the node level and at the Region level.

Which solution will meet these requirements?

A. Use Multi-AZ Redis replication groups with shards that contain multiple nodes.

B. Use Redis shards that contain multiple nodes with Redis append only files (AOF) turned on.

C. Use a Multi-AZ Redis cluster with more than one read replica in the replication group.

D. Use Redis shards that contain multiple nodes with Auto Scaling turned on.

Correct Answer: A		
Community vote distribution		
A (74%)	C (15%) 11%	

😑 🌲 pentium75 5 months, 1 week ago

Selected Answer: A

It seems like "Multi-AZ Redis replication group" (A) and "Multi-AZ Redis cluster" (C) are different wordings for the same configuration. However, "t minimize the impact of a node failure, we recommend that your implementation use multiple nodes in each shard" - and that is mentioned only in A.

upvoted 4 times

😑 💄 LocNV 5 months, 2 weeks ago

Selected Answer: A

high availability at the node level = shard and Multi A-Z = region level upvoted 4 times

😑 👗 Cyberkayu 5 months, 3 weeks ago

did client ask for improved performance, unfortunately they didn't, so C is good to have but not part of the business requirement.

My answer A. upvoted 2 times

😑 🛔 SHAAHIBHUSHANAWS 6 months, 1 week ago

А

Multi-AZ is only option. It is regional service so can use backup to replicate but can not use for failover. upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: A

Multi-AZ is only supported on Redis clusters that have more than one node in each shard (node groups).

https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/AutoFailover.html#:~:text=node%20in%20each-,shard.,-Topics upvoted 3 times

😑 🌡 t0nx 6 months, 3 weeks ago

Selected Answer: C

C. Use a Multi-AZ Redis cluster with more than one read replica in the replication group. In summary, option C, using a Multi-AZ Redis cluster with more than one read replica, is designed to provide both node-level and AWS Region-

level high availability, making it the most suitable choice for the given requirements.

upvoted 2 times

😑 🏝 potomac 7 months, 1 week ago

Selected Answer: A

the replication structure is contained within a shard (called node group in the API/CLI) which is contained within a Redis cluster

A shard (in the API and CLI, a node group) is a hierarchical arrangement of nodes, each wrapped in a cluster. Shards support replication. Within a shard, one node functions as the read/write primary node. All the other nodes in a shard function as read-only replicas of the primary node. upvoted 1 times

😑 🏝 thanhnv142 7 months, 3 weeks ago

C is correct. Not A because in replication mode, shard have multiple nodes by default. B and D not correct because that not an option upvoted 1 times

😑 🌲 iwannabeawsgod 7 months, 3 weeks ago

Selected Answer: C its c for me upvoted 1 times

😑 👗 bsbs1234 8 months ago

C:

Cluster mode will create multiple shards, when node level failure, request of shard that not impacted will not has any performance impact. If the issue at AZ level, spread traffic between multiple shards shall also reduce the performance degrade. upvoted 1 times

😑 💄 loveaws 8 months, 1 week ago

C.

Option A is not ideal because it doesn't mention read replicas, and it's generally better to have read replicas for both performance and high availability.

Option B mentions Redis append-only files (AOF), but AOF alone doesn't provide high availability or fault tolerance.

Option D mentions Auto Scaling, but this doesn't directly address high availability at the Region level or data replication upvoted 1 times

😑 💄 taustin2 8 months, 3 weeks ago

Multi-AZ is only supported on Redis clusters that have more than one node in each shard. upvoted 1 times

😑 👗 taustin2 8 months, 3 weeks ago

Selected Answer: A

https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/Replication.html upvoted 3 times

Guru4Cloud 9 months ago

Selected Answer: A

Multi-AZ replication groups provide automatic failover between AZs if there is an issue with the primary AZ. This provides high availability at the region level

upvoted 2 times

😑 🌲 pentium75 5 months, 1 week ago

What about "the node level"? upvoted 1 times

😑 🚨 xyb 9 months ago

Selected Answer: C

Enabling ElastiCache Multi-AZ with automatic failover on your Redis cluster (in the API and CLI, replication group) improves your fault tolerance. This is true particularly in cases where your cluster's read/write primary cluster becomes unreachable or fails for any reason. Multi-AZ with automatic failover is only supported on Redis clusters that support replication

upvoted 1 times

😑 💄 MII1975 9 months, 1 week ago

Selected Answer: A

I would go with A too

I would go with A, Using AOF can't protect you from all failure scenarios.

For example, if a node fails due to a hardware fault in an underlying physical server, ElastiCache will provision a new node on a different server. In this case, the AOF is not available and can't be used to recover the data.

upvoted 1 times

😑 🌲 hubbabubba 9 months, 1 week ago

Selected Answer: A

Hate to say this, but I read the two docs linked below, and I still think the answer is A. Turning on AOF helps in data persistence after failure, but it does nothing for availability unless you use Multi-AZ replica groups. upvoted 2 times A company plans to migrate to AWS and use Amazon EC2 On-Demand Instances for its application. During the migration testing phase, a technical team observes that the application takes a long time to launch and load memory to become fully productive.

Which solution will reduce the launch time of the application during the next testing phase?

A. Launch two or more EC2 On-Demand Instances. Turn on auto scaling features and make the EC2 On-Demand Instances available during the next testing phase.

B. Launch EC2 Spot Instances to support the application and to scale the application so it is available during the next testing phase.

C. Launch the EC2 On-Demand Instances with hibernation turned on. Configure EC2 Auto Scaling warm pools during the next testing phase.

D. Launch EC2 On-Demand Instances with Capacity Reservations. Start additional EC2 instances during the next testing phase.

Correct Answer: C

Community vote distribution

C (100%)

😑 🆀 Guru4Cloud (Highly Voted 🖬) 9 months ago

Selected Answer: C

Using EC2 hibernation and Auto Scaling warm pools will help address this:

Hibernation saves the in-memory state of the EC2 instance to persistent storage and shuts the instance down. When the instance is started again, the in-memory state is restored, which launches much faster than launching a new instance.

Warm pools pre-initialize EC2 instances and keep them ready to fulfill requests, reducing launch time. The hibernated instances can be added to a warm pool.

When auto scaling scales out during the next testing phase, it will be able to launch instances from the warm pool rapidly since they are already initialized

upvoted 7 times

😑 👗 awsgeek75 🛛 Most Recent 🕑 🕽 5 months ago

Selected Answer: C

https://docs.aws.amazon.com/autoscaling/ec2/userguide/ec2-auto-scaling-warm-pools.html upvoted 2 times

😑 L riyasara 6 months, 1 week ago

Selected Answer: C

Amazon EC2 hibernation and warm pool upvoted 2 times

😑 👗 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: C

If an instance or application takes a long time to bootstrap and build a memory footprint in order to become fully productive, you can use hibernation to pre-warm the instance. To pre-warm the instance, you: Launch it with hibernation enabled.

Bring it to a desired state.

Hibernate it so that it's ready to be resumed to the desired state whenever needed.

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/Hibernate.html#:~:text=you%20can%20use-,hibernation,-to%20pre%2Dwarm upvoted 3 times

😑 🌲 potomac 7 months, 1 week ago

Selected Answer: C

With Amazon EC2 hibernation enabled, you can maintain your EC2 instances in a "pre-warmed" state so these can get to a productive state faster. upvoted 2 times

😑 上 tabbyDolly 8 months, 3 weeks ago

C: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/Hibernate.html upvoted 2 times

😑 🌡 ralfj 9 months, 2 weeks ago

Selected Answer: C

just use hibernation option so you won't load the full EC2 Instance upvoted 1 times

Question #595

A company's applications run on Amazon EC2 instances in Auto Scaling groups. The company notices that its applications experience sudden traffic increases on random days of the week. The company wants to maintain application performance during sudden traffic increases.

Which solution will meet these requirements MOST cost-effectively?

- A. Use manual scaling to change the size of the Auto Scaling group.
- B. Use predictive scaling to change the size of the Auto Scaling group.
- C. Use dynamic scaling to change the size of the Auto Scaling group.
- D. Use schedule scaling to change the size of the Auto Scaling group.

Correct Answer: C

Community vote distribution

C (100%)

□ **awsgeek75** 4 months, 3 weeks ago

Selected Answer: C

random = dynamicA: Manual is never a solutionB: Predictive is not possible as it's randomD: Cannot schedule randomupvoted 4 times

😑 💄 TariqKipkemei 6 months, 3 weeks ago

Selected Answer: C

Dynamic scaling upvoted 1 times

😑 🌢 dilaaziz 7 months, 1 week ago

Selected Answer: C

https://aws.amazon.com/ec2/autoscaling/faqs/ upvoted 1 times

😑 上 tabbyDolly 8 months, 3 weeks ago

C - " sudden traffic increases on random days of the week" --> dynamic scaling upvoted 4 times

😑 🌲 Guru4Cloud 9 months ago

Selected Answer: C

C is the best answer here. Dynamic scaling is the most cost-effective way to automatically scale the Auto Scaling group to maintain performance during random traffic spikes.

upvoted 2 times

😑 🆀 ralfj 9 months, 2 weeks ago

Selected Answer: C

Dynamic Scaling – This is yet another type of Auto Scaling in which the number of EC2 instances is changed automatically depending on the signals received. Dynamic Scaling is a good choice when there is a high volume of unpredictable traffic.

https://www.developer.com/web-services/aws-auto-scaling-types-bestpractices/#:~:text=Dynamic%20Scaling%20%E2%80%93%20This%20is%20yet,high%20volume%20of%20unpredictable%20traffic. upvoted 4 times Which solution resolves this issue in the MOST cost-effective way?

- A. Migrate the PostgreSQL database to Amazon Aurora Serverless v2.
- B. Enable auto scaling for the PostgreSQL database on the EC2 instance to accommodate increased usage.
- C. Migrate the PostgreSQL database to Amazon RDS for PostgreSQL with a larger instance type.
- D. Migrate the PostgreSQL database to Amazon Redshift to accommodate increased usage.

Correct Answer: C						
Community vote distribution						
	A (93%)	7%				
😑 🖀 Guru4Cloud [Highly Voted 🖬] 9 months ago						

Selected Answer: A

Answer is A.

Aurora Serverless v2 got autoscaling, highly available and cheaper when compared to the other options. upvoted 7 times

😑 👗 pentium75 [Most Recent 🕐] 5 months, 1 week ago

Selected Answer: A

Not B - we can auto-scale the EC2 instance, but not "the [self-managed] PostgreSQL database ON the EC2 instance" Not C - This does not mention scaling, so it would incur high cost and still it might not be able to keep up with the "unpredictable" spikes Not D - Redshift is OLAP Data Warehouse upvoted 2 times

😑 🌲 TariqKipkemei 6 months, 2 weeks ago

Selected Answer: A

Amazon Aurora Serverless is an on-demand, auto-scaling configuration for Aurora where the database automatically starts up, shuts down, and scales capacity up or down based on your application's needs. This is the least costly option for unpredictable traffic. upvoted 2 times

😑 🌲 tabbyDolly 8 months, 3 weeks ago

A: "he traffic is unpredictable for subsequent monthly sales events" --> serverless upvoted 2 times

😑 🌲 Wayne23Fang 9 months, 1 week ago

Selected Answer: C

A is probably more expensive than C. Aurora is serverless and fast. But nevertheless it needs DB migration service. Not sure DMS may not be free. upvoted 1 times

😑 🌲 danielmakita 7 months, 2 weeks ago

C is more expensive if you think the scenario where the traffic is low. You are paying for a larger hardware but not using it. That's why I think A i correct.

upvoted 3 times

E **L TiagueteVital** 9 months, 1 week ago

Selected Answer: A

A to autoscaling upvoted 2 times

😑 🌲 manOfThePeople 9 months, 2 weeks ago

Answer is A. Aurora Serverless v2 got autoscaling, highly available and cheaper when compared to the other options. upvoted 1 times

🖃 👗 anikety123 9 months, 2 weeks ago

Selected Answer: A The correct answer is A upvoted 1 times

Ouestion #597

Topic 1

A company hosts an internal serverless application on AWS by using Amazon API Gateway and AWS Lambda. The company's employees report issues with high latency when they begin using the application each day. The company wants to reduce latency.

Which solution will meet these requirements?

A. Increase the API Gateway throttling limit.

B. Set up a scheduled scaling to increase Lambda provisioned concurrency before employees begin to use the application each day.

C. Create an Amazon CloudWatch alarm to initiate a Lambda function as a target for the alarm at the beginning of each day.

D. Increase the Lambda function memory.

Correct Answer: *B*

Community vote distribution

B (100%)

😑 👗 TariqKipkemei 6 months, 2 weeks ago

Selected Answer: B

Provisioned concurrency pre-initializes execution environments for your functions. These execution environments are prepared to respond immediately to incoming function requests at start of day.

upvoted 2 times

😑 🆀 potomac 7 months, 1 week ago

Selected Answer: B

A is wrong API Gateway throttling limit is for better throughput, not for latency upvoted 1 times

😑 🆀 Guru4Cloud 9 months ago

Selected Answer: B

Set up a scheduled scaling to increase Lambda provisioned concurrency before employees begin to use the application each day. upvoted 4 times

😑 🌡 MII1975 9 months, 1 week ago

Selected Answer: B

Provisioned Concurrency incurs additional costs, so it is cost-efficient to use it only when necessary. For example, early in the morning when activit starts, or to handle recurring peak usage. upvoted 3 times

😑 💄 Eminenza22 9 months, 2 weeks ago

Selected Answer: B

B option setting up a scheduled scaling to increase Lambda provisioned concurrency before employees begin to use the application each day. This solution is cost-effective and requires minimal development effort.

upvoted 1 times

🖃 👗 oayoade 9 months, 2 weeks ago

Selected Answer: B

https://aws.amazon.com/blogs/compute/scheduling-aws-lambda-provisioned-concurrency-for-recurring-peak-usage/ upvoted 4 times

A research company uses on-premises devices to generate data for analysis. The company wants to use the AWS Cloud to analyze the data. The devices generate .csv files and support writing the data to an SMB file share. Company analysts must be able to use SQL commands to guery the data. The analysts will run queries periodically throughout the day.

Which combination of steps will meet these requirements MOST cost-effectively? (Choose three.)

A. Deploy an AWS Storage Gateway on premises in Amazon S3 File Gateway mode.

B. Deploy an AWS Storage Gateway on premises in Amazon FSx File Gateway made.

C. Set up an AWS Glue crawler to create a table based on the data that is in Amazon S3.

D. Set up an Amazon EMR cluster with EMR File System (EMRFS) to query the data that is in Amazon S3. Provide access to analysts.

E. Set up an Amazon Redshift cluster to query the data that is in Amazon S3. Provide access to analysts.

F. Setup Amazon Athena to query the data that is in Amazon S3. Provide access to analysts.

Correct Answer: CEF

Community vote distribution

ACF (96%)

4%

😑 🌲 awsgeek75 (Highly Voted 🖬) 5 months ago

Selected Answer: ACF

SQL Queries is Athena so DE are wrong and we are now dependant on S3

A to get files into S3

C Glue to convert CSV to S3 table data

B irrelevant as we don't have anything to consume data from FSx in other options

upvoted 5 times

😑 👗 awsgeek75 4 months, 3 weeks ago

My only reservation with this answer is C. CSV is technically a table and Athena can query multiple csv from S3. Glue just seems overengineering over here upvoted 3 times

😑 💄 pentium75 [Most Recent 🕗] 5 months, 1 week ago

Selected Answer: ACF

A to upload the files to S3 via SMB C to convert the data from CSV format F to query with SQL

Not B (we need the data in S3, not in FSx) Not D or E (we should provide the ability to run SQL queries) upvoted 4 times

😑 💄 TariqKipkemei 6 months, 2 weeks ago

Selected Answer: ACF

SMB + use SQL commands to guery the data = Amazon S3 File Gateway mode + Amazon Athena upvoted 1 times

wsdasdasdqwdaw 7 months, 2 weeks ago

https://aws.amazon.com/storagegateway/file/s3/#:~:text=Amazon%20S3%20File%20Gateway%20provides,Amazon%20S3%20with%20local%20cal% hing.

"Amazon S3 File Gateway provides a seamless way to connect to the cloud in order to store application data files and backup images as durable objects in Amazon S3 cloud storage. Amazon S3 File Gateway offers SMB or NFS-based access to data in Amazon S3 with local caching"

=> SMB and NFS is supported in Amazon S3 File Gateway => ACF upvoted 2 times

😑 🌲 iwannabeawsgod 7 months, 3 weeks ago

Selected Answer: ACF

ACF 100% sure

upvoted 3 times

E & Ramdi1 8 months, 2 weeks ago

Selected Answer: ACF

I thought the correct answer was BCF however I have changed my mind to BCF FSx does support SMB protocol. However so does s3 file gateway which is version 2 and 3 of the SMB protocol. Hence using it with athena ACF should be correct

upvoted 4 times

😑 🌲 RDM10 8 months, 3 weeks ago

SMB file share- is B incorrect? upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

Yes because "FSx File Gateway" uploads the files to FSx, but we need it in S3. upvoted 1 times

😑 🌲 Guru4Cloud 9 months ago

Selected Answer: BCE

BCF is the correct upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

No because FSx File Gateway (B) uploads it to FSx while we we need it in S3. S3 File Gateway provides access to S3 via SMB. upvoted 2 times

😑 💄 Eminenza22 9 months, 2 weeks ago

Selected Answer: ACF

https://docs.aws.amazon.com/glue/latest/dg/aws-glue-programming-etl-format-csv-home.html https://aws.amazon.com/blogs/aws/amazon-athena-interactive-sql-queries-for-data-in-amazon-s3/ https://aws.amazon.com/storagegateway/faqs/

upvoted 2 times

😑 🌲 anikety123 9 months, 2 weeks ago

Selected Answer: ACF

It should be ACF upvoted 2 times

😑 🌲 ralfj 9 months, 2 weeks ago

Selected Answer: ACF

ACF use S3 File Gateway, Use Glue and Use Athena upvoted 2 times

A company wants to use Amazon Elastic Container Service (Amazon ECS) clusters and Amazon RDS DB instances to build and run a payment processing application. The company will run the application in its on-premises data center for compliance purposes.

A solutions architect wants to use AWS Outposts as part of the solution. The solutions architect is working with the company's operational team to build the application.

Which activities are the responsibility of the company's operational team? (Choose three.)

ACE (27%)

- A. Providing resilient power and network connectivity to the Outposts racks
- B. Managing the virtualization hypervisor, storage systems, and the AWS services that run on Outposts
- C. Physical security and access controls of the data center environment
- D. Availability of the Outposts infrastructure including the power supplies, servers, and networking equipment within the Outposts racks
- E. Physical maintenance of Outposts components
- F. Providing extra capacity for Amazon ECS clusters to mitigate server failures and maintenance events

Correct Answer: ACE

Community vote distribution

ACF (49%)

ACD (21%)

😑 👗 taustin2 (Highly Voted 🖬) 8 months ago

Selected Answer: ACF

From https://docs.aws.amazon.com/whitepapers/latest/aws-outposts-high-availability-design/aws-outposts-high-availability-design.html

With Outposts, you are responsible for providing resilient power and network connectivity to the Outpost racks to meet your availability requirements for workloads running on Outposts. You are responsible for the physical security and access controls of the data center environment. You must provide sufficient power, space, and cooling to keep the Outpost operational and network connections to connect the Outpost back to the Region. Since Outpost capacity is finite and determined by the size and number of racks AWS installs at your site, you must decide how much EC2, EBS, and S3 on Outposts capacity you need to run your initial workloads, accommodate future growth, and to provide extra capacity to mitigate server failures and maintenance events.

upvoted 22 times

😑 🜲 ibu007 (Highly Voted 🖬) 9 months, 1 week ago

Selected Answer: ACE

My exam is tomorrow. thank you all for the answers and links. upvoted 13 times

😑 💄 pentium75 5 months, 1 week ago

"Physical maintenance" such as replacing faulty disks is NOT your responsibility. upvoted 4 times

E & pentium75 Most Recent) 5 months, 1 week ago

Selected Answer: ACF

F: "If there is no additional capacity on the Outpost, the instance remains in the stopped state. The Outpost owner can try to free up used capacity or request additional capacity for the Outpost so that the migration can complete."

Not D: "Equipment within the Outposts rack" is AWS' responsibility, you're not supposed to touch that

Not E: "When the AWS installation team arrives on site, they will replace the unhealthy hosts, switches, or rack elements" upvoted 4 times

😑 💄 **1rob** 6 months, 2 weeks ago

Selected Answer: ACF

From <https://aws.amazon.com/outposts/rack/faqs/ : Your site must support the basic power, networking and space requirements to host an Outpost ===> A

From <https://docs.aws.amazon.com/whitepapers/latest/applying-security-practices-to-network-workload-for-csps/the-shared-responsibilitymodel.html : In AWS Outposts, the customer takes the responsibility of securing the physical infrastructure to host the AWS Outposts equipment ir their own data centers. ===> C

upvoted 1 times

😑 💄 1rob 6 months, 2 weeks ago

and From <https://docs.aws.amazon.com/whitepapers/latest/aws-outposts-high-availability-design/aws-outposts-high-availability-design.html Since Outpost capacity is finite and determined by the size and number of racks AWS installs at your site, you must decide how much EC2, EBS, and S3 on Outposts capacity you need to run your initial workloads, accommodate future growth, and to provide extra capacity to mitigate server failures and maintenance events. ===> F

upvoted 1 times

😑 💄 1rob 6 months, 2 weeks ago

From <https://docs.aws.amazon.com/whitepapers/latest/aws-outposts-high-availability-design/aws-outposts-high-availability-design.html> AWS is responsible for the availability of the Outposts infrastructure including the power supplies, servers, and networking equipment withir the AWS Outposts racks. AWS also manages the virtualization hypervisor, storage systems, and the AWS services that run on Outposts. So The customer isn't so not D.

upvoted 1 times

😑 🌲 TariqKipkemei 6 months, 2 weeks ago

Selected Answer: AC

Only A and C are correct.

AWS is responsible for the hardware and software that run on AWS Outposts. This is a fully managed infrastructure service. AWS manages security patches, updates firmware, and maintains the Outpost equipment. AWS also monitors the performance, health, and metrics for your Outpost and determines whether any maintenance is required.

https://docs.aws.amazon.com/outposts/latest/userguide/outpost-maintenance.html

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

"Choose three".

You're missing F, you must order the Outposts rack with excess capacity upvoted 1 times

E **[Removed]** 6 months, 4 weeks ago

Selected Answer: A다E

The role that physical companies will play is ACE. upvoted 1 times

😑 💄 potomac 7 months, 1 week ago

Selected Answer: ACD

E is wrong

If there is a need to perform physical maintenance, AWS will reach out to schedule a time to visit your site. https://aws.amazon.com/outposts/rack/faqs/#:~:text=As%20AWS%20Outposts%20rack%20runs,the%20Outpost%20for%20compliance%20certific tion.

upvoted 1 times

😑 🌲 pentium75 5 months, 1 week ago

So is D, "equipment WITHIN the Outposts rack" is something that your Infra team should stay away from. upvoted 1 times

😑 💄 beast2091 7 months, 1 week ago

ACE

AWS is responsible for the availability of the Outposts infrastructure including the power supplies, servers, and networking equipment within the AWS Outposts racks. AWS also manages the virtualization hypervisor, storage systems, and the AWS services that run on Outposts.

https://d1.awsstatic.com/whitepapers/aws-outposts-high-availability-design-and-architecture-considerations.pdf upvoted 1 times

😑 💄 dilaaziz 7 months, 1 week ago

Selected Answer: ACF

https://docs.aws.amazon.com/whitepapers/latest/aws-outposts-high-availability-design/aws-outposts-high-availability-design.html upvoted 1 times

😑 💄 canonlycontainletters1 7 months, 2 weeks ago

Selected Answer: ACD

I choose ACD

upvoted 1 times

😑 🌲 danielmakita 7 months, 2 weeks ago

Selected Answer: ACD

I think ACD is correct upvoted 1 times

😑 🌲 chris0975 7 months, 2 weeks ago

Selected Answer: ACF

You get to choose the capacity. F upvoted 1 times

😑 🌲 thanhnv142 7 months, 3 weeks ago

A, C and D upvoted 1 times

😑 🌲 aleksand41 8 months ago

ACD https://docs.aws.amazon.com/outposts/latest/userguide/outpost-maintenance.html upvoted 1 times

😑 🌡 Ramdi1 8 months, 2 weeks ago

Selected Answer: ACD

I think because of the shared responsibility model it is ACD upvoted 3 times

😑 💄 taustin2 8 months, 3 weeks ago

Selected Answer: ACF

A and C are obviously right. D is wrong because "within the Outpost racks". Between E and F, E is wrong because

(https://aws.amazon.com/outposts/rack/faqs/) says "If there is a need to perform physical maintenance, AWS will reach out to schedule a time to visit your site. AWS may replace a given module as appropriate but will not perform any host or network switch servicing on customer premises." So, choosing F.

upvoted 1 times

😑 👗 RDM10 8 months, 3 weeks ago

Why am I not able to access the rest of the question bank? upvoted 1 times

A company is planning to migrate a TCP-based application into the company's VPC. The application is publicly accessible on a nonstandard TCP port through a hardware appliance in the company's data center. This public endpoint can process up to 3 million requests per second with low latency. The company requires the same level of performance for the new public endpoint in AWS.

What should a solutions architect recommend to meet this requirement?

A. Deploy a Network Load Balancer (NLB). Configure the NLB to be publicly accessible over the TCP port that the application requires.

B. Deploy an Application Load Balancer (ALB). Configure the ALB to be publicly accessible over the TCP port that the application requires.

C. Deploy an Amazon CloudFront distribution that listens on the TCP port that the application requires. Use an Application Load Balancer as the origin.

D. Deploy an Amazon API Gateway API that is configured with the TCP port that the application requires. Configure AWS Lambda functions with provisioned concurrency to process the requests.

Correct Answer: A

Community vote distribution

A (100%)

😑 🆀 Sugarbear_01 (Highly Voted 🖬) 8 months, 3 weeks ago

Selected Answer: A

Since the company requires the same level of performance for the new public endpoint in AWS.

A Network Load Balancer functions at the fourth layer of the Open Systems Interconnection (OSI) model. It can handle millions of requests per second. After the load balancer receives a connection request, it selects a target from the target group for the default rule. It attempts to open a TCP connection to the selected target on the port specified in the listener configuration.

Link;

https://docs.aws.amazon.com/elasticloadbalancing/latest/network/introduction.html upvoted 8 times

😑 🆀 TariqKipkemei (Highly Voted 🖬) 6 months, 2 weeks ago

Selected Answer: A TCP = NLB upvoted 5 times

😑 🛔 awsgeek75 Most Recent 🕑 5 months ago

Selected Answer: A

B: Is wrong as ALB is not going to help with TCP trafficC: CloudFront is CDN. There is no content hereD: API Gateway is for HTTP web/API stuff, not custom TCP port applicationns upvoted 2 times

😑 👗 taustin2 8 months, 3 weeks ago

Selected Answer: A

NLBs handle millions of requests per second. NLBs can handle general TCP traffic.

upvoted 3 times