

SAA-C03^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

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: 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

QUESTION 2

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.

What should a solutions architect do to reduce the cost of the website?

- A. Create an Amazon CloudFront distribution to cache static 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: C

QUESTION 3

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: 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 FSx for Lustre is optimized for compute-intensive workloads and provides high performance

and durability.

QUESTION 4

A company has hired an external vendor to perform work in the company's AWS account. The vendor uses an automated tool that is hosted in an AWS account that the vendor owns. The vendor does not have IAM access to the company's AWS account.

How should a solutions architect grant this access to the vendor?

A. Create an IAM role in the company's account to delegate access to the vendor's IAM role. Attach the appropriate IAM policies to the role for the permissions that the vendor requires.

B. Create an IAM user in the company's account with a password that meets the password complexity requirements. Attach the appropriate IAM policies to the user for the permissions that the vendor requires.

C. Create an IAM group in the company's account. Add the tool's IAM user from the vendor account to the group. Attach the appropriate IAM policies to the group for the permissions that the vendor requires.

D. Create a new identity provider by choosing "AWS account" as the provider type in the IAM console. Supply the vendor's AWS account ID and user name. Attach the appropriate IAM policies to the new provider for the permissions that the vendor requires.

Correct Answer: A

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_common-scenarios_third-party.html

QUESTION 5

A company has an application that is backed by an Amazon DynamoDB table. The company's compliance requirements specify that database backups must be taken every month, must be available for 6 months, and must be retained for 7 years.

Which solution will meet these requirements?

- A. Create an AWS Backup plan to back up the DynamoDB table on the first day of each month. Specify a lifecycle policy that transitions the backup to cold storage after 6 months. Set the retention period for each backup to 7 years.
- B. Create a DynamoDB on-demand backup of the DynamoDB table on the first day of each month. Transition the backup to Amazon S3 Glacier Flexible Retrieval after 6 months. Create an S3 Lifecycle policy to delete backups that are older than 7 years.
- C. Use the AWS SDK to develop a script that creates an on-demand backup of the DynamoDB table. Set up an Amazon EventBridge rule that runs the script on the first day of each month. Create a second script that will run on the second day of each month to transition DynamoDB backups that are older than 6 months to cold storage and to delete backups that are older than 7 years.
- D. Use the AWS CLI to create an on-demand backup of the DynamoDB table. Set up an Amazon EventBridge rule that runs the command on the first day of each month with a cron expression. Specify in the command to transition the backups to cold storage after 6 months and to delete the backups after 7 years.

Correct Answer: A

This solution satisfies the requirements in the following ways:

1.
AWS Backup will automatically take full backups of the DynamoDB table on the schedule defined in the backup plan (the first of each month).
2.
The lifecycle policy can transition backups to cold storage after 6 months, meeting that requirement.
3.
Setting a 7-year retention period in the backup plan will ensure each backup is retained for 7 years as required.
4.
AWS Backup manages the backup jobs and lifecycle policies, requiring no custom scripting or management.

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