



SAA-C03^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

A company created a new organization in AWS Organizations. The organization has multiple accounts for the company's development teams. The development team members use AWS IAM Identity Center (AWS Single Sign-On) to access the accounts. For each of the company's applications, the development teams must use a predefined application name to tag resources that are created. A solutions architect needs to design a solution that gives the development team the ability to create resources only if the application name tag has an approved value.

Which solution will meet these requirements?

- A. Create an IAM group that has a conditional Allow policy that requires the application name tag to be specified for resources to be created.
- B. Create a cross-account role that has a Deny policy for any resource that has the application name tag.
- C. Create a resource group in AWS Resource Groups to validate that the tags are applied to all resources in all accounts.
- D. Create a tag policy in Organizations that has a list of allowed application names.

Correct Answer: D

QUESTION 2

A company has an API that receives real-time data from a fleet of monitoring devices. The API stores this data in an Amazon RDS DB instance for later analysis. The amount of data that the monitoring devices send to the API fluctuates. During periods of heavy traffic, the API often returns timeout errors.

After an inspection of the logs, the company determines that the database is not capable of processing the volume of write traffic that comes from the API. A solutions architect must minimize the number of connections to the database and

must ensure that data is not lost during periods of heavy traffic.

Which solution will meet these requirements?

- A. Increase the size of the DB instance to an instance type that has more available memory.
- B. Modify the DB instance to be a Multi-AZ DB instance. Configure the application to write to all active RDS DB instances.
- C. Modify the API to write incoming data to an Amazon Simple Queue Service (Amazon SQS) queue. Use an AWS Lambda function that Amazon SQS invokes to write data from the queue to the database.
- D. Modify the API to write incoming data to an Amazon Simple Notification Service (Amazon SNS) topic. Use an AWS Lambda function that Amazon SNS invokes to write data from the topic to the database.

Correct Answer: C

Using Amazon SQS will help minimize the number of connections to the database, as the API will write data to a queue instead of directly to the database. Additionally, using an AWS Lambda function that Amazon SQS invokes to write data from the queue to the database will help ensure that data is not lost during periods of heavy traffic, as the queue will serve as a buffer between the API and the database.



QUESTION 3

A solution architect needs to assign a new microsoft for a company's application. Clients must be able to call an HTTPS endpoint to reach the microservice. The microservice also must use AWS identity and Access Management (IAM) to authentication calls. The solutions architect will write the logic for this microservice by using a single AWS Lambda function that is written in Go 1.x.

Which solution will deploy the function in the in the MOST operationally efficient way?

- A. Create an Amazon API Gateway REST API. Configure the method to use the Lambda function. Enable IAM authentication on the API.
- B. Create a Lambda function URL for the function. Specify AWS_IAM as the authentication type.
- C. Create an Amazon CloudFront distribution. Deploy the function to Lambda@Edge. Integrate IAM authentication logic into the Lambda@Edge function.
- D. Create an Amazon CloudFront distribuion. Deploy the function to CloudFront Functions. Specify AWS_IAM as the authentication type.

Correct Answer: A

This option is the most operationally efficient as it allows you to use API Gateway to handle the HTTPS endpoint and also allows you to use IAM to authenticate the calls to the microservice. API Gateway also provides many additional features such as caching, throttling, and monitoring, which can be useful for a microservice.

QUESTION 4

A solutions architect is designing the cloud architecture for a new stateless application that will be deployed on AWS. The solutions architect created an Amazon Machine Image (AMI) and launch template for the application.

Based on the number of jobs that need to be processed, the processing must run in parallel while adding and removing application Amazon EC2 instances as needed. The application must be loosely coupled. The job items must be durably stored.

Which solution will meet these requirements?

- A. Create an Amazon Simple Notification Service (Amazon SNS) topic to send the jobs that need to be processed. Create an Auto Scaling group by using the launch template with the scaling policy set to add and remove EC2 instances based on CPU usage.
- B. Create an Amazon Simple Queue Service (Amazon SQS) queue to hold the jobs that need to be processed. Create an Auto Scaling group by using the launch template with the scaling policy set to add and remove EC2 instances based on network usage.
- C. Create an Amazon Simple Queue Service (Amazon SQS) queue to hold the jobs that need to be processed. Create an Auto Scaling group by using the launch template with the scaling policy set to add and remove EC2 instances based on the number of items in the SQS queue.
- D. Create an Amazon Simple Notification Service (Amazon SNS) topic to send the jobs that need to be processed. Create an Auto Scaling group by using the launch template with the scaling policy set to add and remove EC2 instances based on the number of messages published to the SNS topic.



Correct Answer: C

QUESTION 5

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-aci 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

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/>

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