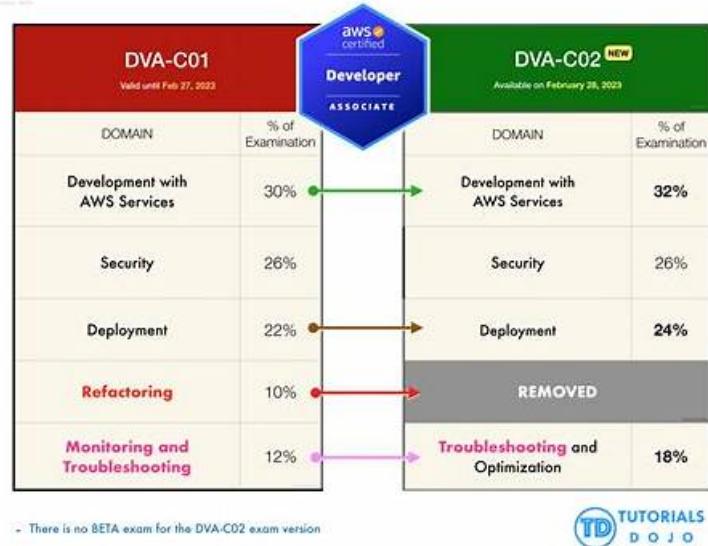


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The AWS Certified Developer - Associate exam is an essential certification for developers who want to demonstrate their expertise in developing and deploying applications on the AWS platform. AWS Certified Developer - Associate certification can help candidates advance their careers and open up new opportunities in the field of cloud computing.

## Amazon AWS Certified Developer - Associate Sample Questions (Q306-Q311):

NEW QUESTION # 306

A developer runs an application that displays scores for sports games on Amazon EC2 instances. The application uses a Redis client to retrieve the scores from an Amazon ElastiCache (Redis OSS) cluster.

The developer observes increased latency during operations on the cache because of connection failures to the cluster. The developer needs to resolve the latency issues.

- A. Configure the Redis client to use an exponential backoff retry strategy to establish cache connections.
- B. Store the scores in the application's memory. Perform bulk set operations on the scores that are stored in memory.
- **C. Configure the Redis client in the application to persist connections to the cluster by implementing a connection pool.**
- D. Deploy more nodes in the ElastiCache cluster. Update the Redis client to discover the new nodes.

**Answer: C**

Explanation:

Comprehensive Detailed Explanation with all AWS References

\* Why Option C is Correct: Implementing a connection pool in the Redis client reduces connection overhead and avoids frequent connection establishment, which helps to reduce latency and connection failures.

\* Why Other Options are Incorrect:

\* Option A: Exponential backoff retry strategies help with transient failures but do not resolve latency caused by frequent connection establishment.

\* Option B: Storing scores in application memory adds complexity and risks inconsistency.

\* Option D: Adding more nodes is unnecessary unless the cluster is under heavy load. Latency due to connection failures is better addressed at the application level.

\* AWS Documentation References:

\* Amazon ElastiCache Best Practices

#### **NEW QUESTION # 307**

A developer is creating an AWS Lambda function that is invoked by messages to an Amazon Simple Notification Service (Amazon SNS) topic. The messages represent customer data updates from a customer relationship management (CRM) system. The developer wants the Lambda function to process only the messages that pertain to email address changes. Additional subscribers to the SNS topic will process any other messages.

Which solution will meet these requirements in the LEAST development effort?

- A. Configure the Lambda code to check the received message. If the message is not related to an email address change, configure the Lambda function to publish the message back to the SNS topic for the other subscribers to process.
- B. Use Lambda event filtering to allow only messages that are related to email address changes to invoke the Lambda function.
- **C. Use an SNS filter policy on the Lambda function subscription to allow only messages that are related to email address changes to invoke the Lambda function.**
- D. Subscribe an Amazon Simple Queue Service (Amazon SQS) queue to the SNS topic. Configure the SQS queue with a filter policy to allow only messages that are related to email address changes. Connect the SQS queue to the Lambda function.

**Answer: C**

#### **NEW QUESTION # 308**

A company runs a batch processing application by using AWS Lambda functions and Amazon API Gateway APIs with deployment stages for development, user acceptance testing and production. A development team needs to configure the APIs in the deployment stages to connect to third-party service endpoints.

Which solution will meet this requirement?

- A. Store the third-party service endpoints in Lambda layers that correspond to the stage
- B. Store the third-party service endpoint for each environment in AWS AppConfig
- **C. Store the third-party service endpoints in API Gateway stage variables that correspond to the stage**
- D. Encode the third-party service endpoints as query parameters in the API Gateway request URL.

**Answer: C**

Explanation:

API Gateway Stage Variables: These are designed for configuring dynamic values for your APIs in different deployment stages (dev,

test, prod). Here's how to use them for third-party endpoints:

In the API Gateway console, access the "Stages" section of your API.

For each stage, create a stage variable named something like thirdPartyEndpoint.

Set the value of this variable to the actual endpoint URL for that specific environment.

When configuring API requests within your API Gateway method, reference this endpoint using \${stageVariables.thirdPartyEndpoint}.

Why Stage Variables Excel Here:

Environment Isolation: This approach keeps the endpoint configuration specific to each deployment stage, ensuring the right endpoints are used during development, testing, and production cycles.

Ease of Management: You manage the endpoints directly through the API Gateway console without additional infrastructure.

Reference:

Amazon API Gateway Stage Variables: <https://docs.aws.amazon.com/apigateway/latest/developerguide/stage-variables.html>

### NEW QUESTION # 309

An application that runs on AWS Lambda requires access to specific highly confidential objects in an Amazon S3 bucket. In accordance with the principle of least privilege a company grants access to the S3 bucket by using only temporary credentials. How can a developer configure access to the S3 bucket in the MOST secure way?

- A. Create a secret access key and access key ID with permission to access the S3 bucket. Store the key and key ID as environment variables in Lambda. Use the environment variables to access the required S3 objects.
- B. Create a secret access key and access key ID with permission to access the S3 bucket. Store the key and key ID in AWS Secrets Manager. Configure the application to retrieve the Secrets Manager secret and use the credentials to access the S3 objects.
- C. **Create a Lambda function execution role** **Attach a policy to the role that grants access to specific objects in the S3 bucket.**
- D. Hardcode the credentials that are required to access the S3 objects in the application code. Use the credentials to access the required S3 objects.

### Answer: C

Explanation:

This solution will meet the requirements by creating a Lambda function execution role, which is an IAM role that grants permissions to a Lambda function to access AWS resources such as Amazon S3 objects. The developer can attach a policy to the role that grants access to specific objects in the S3 bucket that are required by the application, following the principle of least privilege.

Option A is not optimal because it will hardcode the credentials that are required to access S3 objects in the application code, which is insecure and difficult to maintain. Option B is not optimal because it will create a secret access key and access key ID with permission to access the S3 bucket, which will introduce additional security risks and complexity for storing and managing credentials. Option D is not optimal because it will store the secret access key and access key ID as environment variables in Lambda, which is also insecure and difficult to maintain.

### NEW QUESTION # 310

A developer is building a microservice that uses AWS Lambda to process messages from an Amazon Simple Queue Service (Amazon SQS) standard queue. The Lambda function calls external APIs to enrich the SOS message data before loading the data into an Amazon Redshift data warehouse. The SOS queue must handle a maximum of 1.000 messages per second.

During initial testing, the Lambda function repeatedly inserted duplicate data into the Amazon Redshift table.

The duplicate data led to a problem with data analysis. All duplicate messages were submitted to the queue within 1 minute of each other.

How should the developer resolve this issue?

- A. **Create an SOS FIFO queue. Enable message deduplication on the SOS FIFO queue.**
- B. Configure a message group ID for every sent message. Enable message deduplication on the SQS standard queue.
- C. Reduce the maximum Lambda concurrency that the SOS queue can invoke.
- D. Use Lambda's temporary storage to keep track of processed message identifiers.

### Answer: A

### NEW QUESTION # 311

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