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Amazon DVA-C02 (AWS Certified Developer - Associate) certification exam is designed to validate the skills and knowledge of individuals who have experience in developing and maintaining applications on the AWS platform. AWS Certified Developer -

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## Key DVA-C02 Concepts & Latest DVA-C02 Material

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### Amazon AWS Certified Developer - Associate Sample Questions (Q109-Q114):

#### NEW QUESTION # 109

A developer has observed an increase in bugs in the AWS Lambda functions that a development team has deployed in its Node.js application.

To minimize these bugs, the developer wants to implement automated testing of Lambda functions in an environment that closely simulates the Lambda environment.

The developer needs to give other developers the ability to run the tests locally. The developer also needs to integrate the tests into the team's continuous integration and continuous delivery (CI/CD) pipeline before the AWS Cloud Development Kit (AWS CDK) deployment.

Which solution will meet these requirements?

- A. Install a unit testing framework that reproduces the Lambda execution environment. Create sample events based on the Lambda documentation. Invoke the handler function by using a unit testing framework. Check the response. Document how to run the unit testing framework for the other developers on the team. Update the CI/CD pipeline to run the unit testing framework.
- B. Create sample events based on the Lambda documentation. Create a Docker container from the Node.js base image to invoke the Lambda functions. Check the response. Document how to run the Docker container for the other developers on the team. Update the CI/CD pipeline to run the Docker container.
- C. **Install the AWS Serverless Application Model (AWS SAM) CLI tool. Use the sam local generate-event command to generate sample events for the automated tests. Create automated test scripts that use the sam local invoke command to invoke the Lambda functions. Check the response. Document the test scripts for the other developers on the team. Update the CI/CD pipeline to run the test scripts.**
- D. Create sample events based on the Lambda documentation. Create automated test scripts that use the cdk local invoke command to invoke the Lambda functions. Check the response. Document the test scripts for the other developers on the team. Update the CI/CD pipeline to run the test scripts.

#### Answer: C

Explanation:

The AWS Serverless Application Model Command Line Interface (AWS SAM CLI) is a command-line tool for local development and testing of Serverless applications3. The sam local generate-event command of AWS SAM CLI generates sample events for automated tests3. The sam local invoke command is used to invoke Lambda functions3. Therefore, option C is correct.

#### NEW QUESTION # 110

A developer is creating an AWS Lambda function in VPC mode. An Amazon S3 event will invoke the Lambda function when an object is uploaded into an S3 bucket. The Lambda function will process the object and produce some analytic results that will be recorded into a file. Each processed object will also generate a log entry that will be recorded into a file.

Other Lambda functions, AWS services, and on-premises resources must have access to the result files and log file. Each log entry must also be appended to the same shared log file. The developer needs a solution that can share files and append results into an existing file.

Which solution should the developer use to meet these requirements?

- A. Create an Amazon Elastic Block Store (Amazon EBS) Multi-Attach enabled volume. Attach the EBS volume to all

Lambda functions. Update the Lambda function code to download the log file, append the log entries, and upload the modified log file to Amazon EBS.

- B. Create a reference to the /opt storage directory. Store the result files and log file by using the directory reference. Append the log entry to the log file.
- C. Create an Amazon Elastic File System (Amazon EFS) file system. Mount the EFS file system in Lambda. Store the result files and log file in the mount point. Append the log entries to the log file.
- D. Create a reference to the /tmp local directory. Store the result files and log file by using the directory reference. Append the log entry to the log file.

**Answer: C**

#### NEW QUESTION # 111

A company is building a serverless application on AWS. The application uses an AWS Lambda function to process customer orders 24 hours a day, 7 days a week. The Lambda function calls an external vendor's HTTP API to process payments.

During load tests, a developer discovers that the external vendor payment processing API occasionally times out and returns errors. The company expects that some payment processing API calls will return errors.

The company wants the support team to receive notifications in near real time only when the payment processing external API error rate exceed 5% of the total number of transactions in an hour. Developers need to use an existing Amazon Simple Notification Service (Amazon SNS) topic that is configured to notify the support team.

Which solution will meet these requirements?

- A. Publish custom metrics to CloudWatch that record the failures of the external payment processing API calls. Configure a CloudWatch alarm to notify the existing SNS topic when error rate exceeds the specified rate.
- B. Write the results of payment processing API calls to Amazon CloudWatch. Use Amazon CloudWatch Logs Insights to query the CloudWatch logs. Schedule the Lambda function to check the CloudWatch logs and notify the existing SNS topic.
- C. Publish the results of the external payment processing API calls to a new Amazon SNS topic. Subscribe the support team members to the new SNS topic.
- D. Write the results of the external payment processing API calls to Amazon S3. Schedule an Amazon Athena query to run at regular intervals. Configure Athena to send notifications to the existing SNS topic when the error rate exceeds the specified rate.

**Answer: A**

Explanation:

Explanation

Amazon CloudWatch is a service that monitors AWS resources and applications. The developer can publish custom metrics to CloudWatch that record the failures of the external payment processing API calls. The developer can configure a CloudWatch alarm to notify the existing SNS topic when the error rate exceeds 5% of the total number of transactions in an hour. This solution will meet the requirements in a near real-time and scalable way.

References:

[What Is Amazon CloudWatch? - Amazon CloudWatch]

[Publishing Custom Metrics - Amazon CloudWatch]

[Creating Amazon CloudWatch Alarms - Amazon CloudWatch]

#### NEW QUESTION # 112

A developer is designing an event-driven architecture. An AWS Lambda function that processes data needs to push processed data to a subset of four consumer Lambda functions. The data must be routed based on the value of one field in the data.

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

- A. Create a single Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the four consumer Lambda functions to the topic. Add SNS subscription filter policies to each subscription. Configure the data-processing Lambda function to publish to the topic.
- B. Create a separate Amazon Simple Notification Service (Amazon SNS) topic and subscription for each consumer Lambda function. Add message routing logic to the data-processing Lambda function to publish to the appropriate topic.
- C. Create an Amazon Simple Queue Service (Amazon SQS) queue and even! source mapping for each consumer Lambda function. Add message routing logic to the data-processing Lambda function.
- D. Create an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the four consumer Lambda functions to the topic. Add message filtering logic to each consumer Lambda function. Subscribe the data-processing Lambda function to the SNS topic.

## Answer: D

### NEW QUESTION # 113

A company is using AWS CloudFormation to deploy a two-tier application. The application will use Amazon RDS as its backend database. The company wants a solution that will randomly generate the database password during deployment. The solution also must automatically rotate the database password without requiring changes to the application.

What is the MOST operationally efficient solution that meets these requirements?

- A. Use a cron daemon on the application's host to generate and rotate the password.
- B. Use an AWS Secrets Manager resource to generate and rotate the password.
- C. Use an AWS Lambda function as a CloudFormation custom resource to generate and rotate the password.
- D. Use an AWS Systems Manager Parameter Store resource with the SecureString data type to generate and rotate the password.

## Answer: B

Explanation:

Explanation

This solution will meet the requirements by using AWS Secrets Manager, which is a service that helps protect secrets such as database credentials by encrypting them with AWS Key Management Service (AWS KMS) and enabling automatic rotation of secrets. The developer can use an AWS Secrets Manager resource in AWS CloudFormation template, which enables creating and managing secrets as part of a CloudFormation stack. The developer can use an AWS::SecretsManager::Secret resource type to generate and rotate the password for accessing RDS database during deployment. The developer can also specify a RotationSchedule property for the secret resource, which defines how often to rotate the secret and which Lambda function to use for rotation logic. Option A is not optimal because it will use an AWS Lambda function as a CloudFormation custom resource, which may introduce additional complexity and overhead for creating and managing a custom resource and implementing rotation logic. Option B is not optimal because it will use an AWS Systems Manager Parameter Store resource with the SecureString data type, which does not support automatic rotation of secrets. Option C is not optimal because it will use a cron daemon on the application's host to generate and rotate the password, which may incur more costs and require more maintenance for running and securing a host.

References: [AWS Secrets Manager], [AWS::SecretsManager::Secret]

### NEW QUESTION # 114

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