DVA-C02 Q&As

AWS Certified Developer - Associate

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QUESTION 1

A developer has written an application that runs on Amazon EC2 instances. The developer is adding functionality for the application to write objects to an Amazon S3 bucket. Which policy must the developer modify to allow the instances to write these objects?

A. The IAM policy that is attached to the EC2 instance profile role

B. The session policy that is applied to the EC2 instance role session

C. The AWS Key Management Service (AWS KMS) key policy that is attached to the EC2 instance profile role

D. The Amazon VPC endpoint policy

Correct Answer: A

QUESTION 2

A developer is modifying an existing AWS Lambda function. While checking the code, the developer notices hardcoded parameter values for an Amazon RDS for SQL Server user name, password, database, host, and port. There are also hardcoded parameter values for an Amazon DynamoDB table, an Amazon S3 bucket, and an Amazon Simple Notification Service (Amazon SNS) topic.

The developer wants to securely store the parameter values outside the code in an encrypted format and wants to turn on rotation for the credentials. The developer also wants to be able to reuse the parameter values from other applications and to update the parameter values without modifying code.

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

A. Create an RDS database secret in AWS Secrets Manager. Set the user name, password, database, host, and port. Turn on secret rotation. Create encrypted Lambda environment variables for the DynamoDB table, S3 bucket, and SNS topic.

B. Create an RDS database secret in AWS Secrets Manager. Set the user name, password, database, host, and port. Turn on secret rotation. Create SecureString parameters in AWS Systems Manager Parameter Store for the DynamoDB table, S3 bucket, and SNS topic.

C. Create RDS database parameters in AWS Systems Manager Parameter Store for the user name, password, database, host, and port. Create encrypted Lambda environment variables for the DynamoDB table, S3 bucket, and SNS topic. Create a Lambda function and set the logic for the credentials rotation task. Schedule the credentials rotation task in Amazon EventBridge.

D. Create RDS database parameters in AWS Systems Manager Parameter Store for the user name, password, database, host, and port. Store the DynamoDB table, S3 bucket, and SNS topic in Amazon S3. Create a Lambda function and set the logic for the credentials rotation. Invoke the Lambda function on a schedule.

Correct Answer: B

QUESTION 3

A developer is creating an AWS Lambda function. The Lambda function needs an external library to connect to a third-party solution. The external library is a collection of files with a total size of 100 MB. The developer needs to make the external library available to the Lambda execution environment and reduce the Lambda package space.

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

A. Create a Lambda layer to store the external library. Configure the Lambda function to use the layer.

B. Create an Amazon S3 bucket. Upload the external library into the S3 bucket. Mount the S3 bucket folder in the Lambda function. Import the library by using the proper folder in the mount point.

C. Load the external library to the Lambda function\\'s /tmp directory during deployment of the Lambda package. Import the library from the /tmp directory.

D. Create an Amazon Elastic File System (Amazon EFS) volume. Upload the external library to the EFS volume. Mount the EFS volume in the Lambda function. Import the library by using the proper folder in the mount point.

Correct Answer: A

Create a Lambda layer to store the external library. Configure the Lambda function to use the layer. This will allow the developer to make the external library available to the Lambda execution environment without having to include it in the Lambda package, which will reduce the Lambda package space. Using a Lambda layer is a simple and straightforward solution that requires minimal operational overhead.

QUESTION 4

An application runs on multiple EC2 instances behind an ELB.

Where is the session data best written so that it can be served reliably across multiple requests?

A. Write data to Amazon ElastiCache.

B. Write data to Amazon Elastic Block Store.

C. Write data to Amazon EC2 Instance Store.

D. Write data to the root filesystem.

Correct Answer: A

QUESTION 5

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. 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.

B. 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.

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 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.

Correct Answer: B