DVA-C02^{Q&As}

AWS Certified Developer - Associate

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QUESTION 1

A developer is planning to use an Amazon API Gateway and AWS Lambda to provide a REST API. The developer will have three distinct environments to manage: development, test, and production.

How should the application be deployed while minimizing the number of resources to manage?

A. Create a separate API Gateway and separate Lambda function for each environment in the same Region.

B. Assign a Region for each environment and deploy API Gateway and Lambda to each Region.

C. Create one API Gateway with multiple stages with one Lambda function with multiple aliases.

D. Create one API Gateway and one Lambda function, and use a REST parameter to identify the environment.

Correct Answer: C

QUESTION 2

A developer is building an application that gives users the ability to view bank accounts from multiple sources in a single dashboard. The developer has automated the process to retrieve API credentials for these sources. The process invokes an AWS Lambda function that is associated with an AWS CloudFormation custom resource.

The developer wants a solution that will store the API credentials with minimal operational overhead.

Which solution will meet these requirements in the MOST secure way?

A. Add an AWS Secrets Manager GenerateSecretString resource to the CloudFormation template. Set the value to reference new credentials for the CloudFormation resource.

B. Use the AWS SDK ssm:PutParameter operation in the Lambda function from the existing custom resource to store the credentials as a parameter. Set the parameter value to reference the new credentials. Set the parameter type to SecureString.

C. Add an AWS Systems Manager Parameter Store resource to the CloudFormation template. Set the CloudFormation resource value to reference the new credentials. Set the resource NoEcho attribute to true.

D. Use the AWS SDK ssm:PutParameter operation in the Lambda function from the existing custom resource to store the credentials as a parameter. Set the parameter value to reference the new credentials. Set the parameter NoEcho attribute to true.

Correct Answer: B

QUESTION 3

A company is migrating an on-premises database to Amazon RDS for MySQL. The company has read-heavy workloads. The company wants to refactor the code to achieve optimum read performance for queries. Which solution will meet this requirement with LEAST current and future effort?

A. Use a multi-AZ Amazon RDS deployment. Increase the number of connections that the code makes to the database or increase the connection pool size if a connection pool is in use.

B. Use a multi-AZ Amazon RDS deployment. Modify the code so that queries access the secondary RDS instance.

C. Deploy Amazon RDS with one or more read replicas. Modify the application code so that queries use the URL for the read replicas.

D. Use open source replication software to create a copy of the MySQL database on an Amazon EC2 instance. Modify the application code so that queries use the IP address of the EC2 instance.

Correct Answer: C

QUESTION 4

A developer is building a microservices-based application by using Python on AWS and several AWS services The developer must use AWS X-Ray The developer views the service map by using the console to view the service dependencies. During testing, the developer notices that some services are missing from the service map

What can the developer do to ensure that all services appear in the X-Ray service map?

A. Modify the X-Ray Python agent configuration in each service to increase the sampling rate

B. Instrument the application by using the X-Ray SDK for Python. Install the X-Ray SDK for all the services that the application uses

C. Enable X-Ray data aggregation in Amazon CloudWatch Logs for all the services that the application uses

D. Increase the X-Ray service map timeout value in the X-Ray console

Correct Answer: B

The X-Ray SDK for Python provides libraries and tools for instrumenting Python applications that use AWS services and other AWS X-Ray integrations. By installing the X-Ray SDK for all the services that the application uses, the developer can ensure that all the service dependencies are captured and displayed in the X-Ray service map. The other options are not relevant or effective for this scenario. References AWS X-Ray SDK for Python Instrumenting a Python Application

QUESTION 5

A company has deployed an application on AWS Elastic Beanstalk. The company has configured the Auto Scaling group that is associated with the Elastic Beanstalk environment to have five Amazon EC2 instances. If the capacity is fewer than four EC2 instances during the deployment, application performance degrades. The company is using the all-at-once deployment policy.

What is the MOST cost-effective way to solve the deployment issue?

A. Change the Auto Scaling group to six desired instances.

B. Change the deployment policy to traffic splitting. Specify an evaluation time of 1 hour.

C. Change the deployment policy to rolling with additional batch. Specify a batch size of 1.

D. Change the deployment policy to rolling. Specify a batch size of 2.

Correct Answer: C