

DVA-C02^{Q&As}

AWS Certified Developer - Associate

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QUESTION 1

A developer needs to manage AWS infrastructure as code and must be able to deploy multiple identical copies of the infrastructure, stage changes, and revert to previous versions.

Which approach addresses these requirements?

- A. Use cost allocation reports and AWS OpsWorks to deploy and manage the infrastructure.
- B. Use Amazon CloudWatch metrics and alerts along with resource tagging to deploy and manage the infrastructure.
- C. Use AWS Elastic Beanstalk and AWS CodeCommit to deploy and manage the infrastructure.
- D. Use AWS CloudFormation and AWS CodeCommit to deploy and manage the infrastructure.

Correct Answer: D

QUESTION 2

A developer is setting up infrastructure by using AWS CloudFormation. If an error occurs when the resources described in the CloudFormation template are provisioned, successfully provisioned resources must be preserved. The developer must provision and update the CloudFormation stack by using the AWS CLI.

Which solution will meet these requirements?

- A. Add an `--enable-termination-protection` command line option to the `create-stack` command and the `update-stack` command.
- B. Add a `--disable-rollback` command line option to the `create-stack` command and the `update-stack` command.
- C. Add a `--parameters ParameterKey=PreserveResources,ParameterValue=True` command line option to the `create-stack` command and the `update-stack` command.
- D. Add a `--tags Key=PreserveResources,Value=True` command line option to the `create-stack` command and the `update-stack` command.

Correct Answer: C

QUESTION 3

A developer is creating an AWS Lambda function that will connect to an Amazon RDS for MySQL instance. The developer wants to store the database credentials. The database credentials need to be encrypted and the database password needs to be automatically rotated.

Which solution will meet these requirements?

- A. Store the database credentials as environment variables for the Lambda function. Set the environment variables to rotate automatically.

- B. Store the database credentials in AWS Secrets Manager. Set up managed rotation on the database credentials.
- C. Store the database credentials in AWS Systems Manager Parameter Store as secure string parameters. Set up managed rotation on the parameters.
- D. Store the database credentials in the X-Amz-Security-Token parameter. Set up managed rotation on the parameter.

Correct Answer: B

QUESTION 4

An application that is hosted on an Amazon EC2 instance needs access to files that are stored in an Amazon S3 bucket. The application lists the objects that are stored in the S3 bucket and displays a table to the user. During testing, a developer discovers that the application does not show any objects in the list.

What is the MOST secure way to resolve this issue?

- A. Update the IAM instance profile that is attached to the EC2 instance to include the S3:* permission for the S3 bucket.
- B. Update the IAM instance profile that is attached to the EC2 instance to include the S3:ListBucket permission for the S3 bucket.
- C. Update the developer's user permissions to include the S3:ListBucket permission for the S3 bucket.
- D. Update the S3 bucket policy by including the S3:ListBucket permission and by setting the Principal element to specify the account number of the EC2 instance.

Correct Answer: B

QUESTION 5

A company's new mobile app uses Amazon API Gateway. As the development team completes a new release of its APIs, a developer must safely and transparently roll out the API change. What is the SIMPLEST solution for the developer to use for rolling out the new API version to a limited number of users through API Gateway?

- A. Create a new API in API Gateway. Direct a portion of the traffic to the new API using an Amazon Route 53 weighted routing policy.
- B. Validate the new API version and promote it to production during the window of lowest expected utilization.
- C. Implement an Amazon CloudWatch alarm to trigger a rollback if the observed HTTP 500 status code rate exceeds a predetermined threshold.
- D. Use the canary release deployment option in API Gateway. Direct a percentage of the API traffic using the canarySettings setting.

Correct Answer: D

<https://docs.aws.amazon.com/apigateway/latest/developerguide/canary-release.html>

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