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**QUESTION 1**

A team of developers is using an AWS CodePipeline pipeline as a continuous integration and continuous delivery (CI/CD) mechanism for a web application. A developer has written unit tests to programmatically test the functionality of the application code. The unit tests produce a test report that shows the results of each individual check. The developer now wants to run these tests automatically during the CI/CD process.

Which solution will meet this requirement with the LEAST operational effort?

- A. Write a Git pre-commit hook that runs the tests before every commit. Ensure that each developer who is working on the project has the pre-commit hook installed locally. Review the test report and resolve any issues before pushing changes to AWS CodeCommit.
- B. Add a new stage to the pipeline. Use AWS CodeBuild as the provider. Add the new stage after the stage that deploys code revisions to the test environment. Write a buildspec that fails the CodeBuild stage if any test does not pass. Use the test reports feature of CodeBuild to integrate the report with the CodeBuild console. View the test results in CodeBuild. Resolve any issues.
- C. Add a new stage to the pipeline. Use AWS CodeBuild as the provider. Add the new stage before the stage that deploys code revisions to the test environment. Write a buildspec that fails the CodeBuild stage if any test does not pass. Use the test reports feature of CodeBuild to integrate the report with the CodeBuild console. View the test results in CodeBuild. Resolve any issues.
- D. Add a new stage to the pipeline. Use Jenkins as the provider. Configure CodePipeline to use Jenkins to run the unit tests. Write a Jenkinsfile that fails the stage if any test does not pass. Use the test report plugin for Jenkins to integrate the report with the Jenkins dashboard. View the test results in Jenkins. Resolve any issues.

Correct Answer: C

QUESTION 2

A developer is creating an AWS CloudFormation template to deploy Amazon EC2 instances across multiple AWS accounts. The developer must choose the EC2 instances from a list of approved instance types.

How can the developer incorporate the list of approved instance types in the CloudFormation template?

- A. Create a separate CloudFormation template for each EC2 instance type in the list.
- B. In the Resources section of the CloudFormation template, create resources for each EC2 instance type in the list.
- C. In the CloudFormation template, create a separate parameter for each EC2 instance type in the list.
- D. In the CloudFormation template, create a parameter with the list of EC2 instance types as AllowedValues.

Correct Answer: D

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/parameters-section-structure.html>

Parameters:

InstanceTypeParameter:

Type: String



Default: t2.micro

AllowedValues:

-t2.micro

-m1.small

-m1.large

Description: Enter t2.micro, m1.small, or m1.large. Default is t2.micro.

QUESTION 3

A company has a mobile app. The app includes an Amazon API Gateway REST API that invokes AWS Lambda functions. The Lambda functions process data from the app.

The company needs to test updated Lambda functions that have new features. The company must conduct these tests with a subset of users before deployment. The tests must not affect other users of the app.

Which solution will meet these requirements with the LEAST amount of operational effort?

- A. Create a new version of each Lambda function with a weighted alias. Configure a weight value for each version of the Lambda function. Update the new weighted alias Amazon Resource Name (ARN) in the REST API.
- B. Create a new REST API in API Gateway. Set up a Lambda proxy integration to connect to multiple Lambda functions. Enable canary settings on the deployment stage. Specify a smaller percentage of API traffic to go to the new version of the Lambda function.
- C. Create a new version of each Lambda function. Integrate a predefined canary deployment in AWS CodeDeploy to slowly shift the traffic to the new versions automatically.
- D. Create a new REST API in API Gateway. Set up a Lambda non-proxy integration to connect to multiple Lambda functions. Specify the necessary parameters and properties in API Gateway. Enable canary settings on the deployment stage. Specify a smaller percentage of API traffic to go to the new version of the Lambda function.

Correct Answer: C

QUESTION 4

A developer supports an application that accesses data in an Amazon DynamoDB table. One of the item attributes is expirationDate in the timestamp format. The application uses this attribute to find items, archive them, and remove them from the table based on the timestamp value.

The application will be decommissioned soon, and the developer must find another way to implement this functionality. The developer needs a solution that will require the least amount of code to write.

Which solution will meet these requirements?

- A. Enable TTL on the expirationDate attribute in the table. Create a DynamoDB stream. Create an AWS Lambda function to process the deleted items. Create a DynamoDB trigger for the Lambda function.
- B. Create two AWS Lambda functions: one to delete the items and one to process the items. Create a DynamoDB



stream. Use the DeleteItem API operation to delete the items based on the expirationDate attribute. Use the GetRecords API operation to get the items from the DynamoDB stream and process them.

C. Create two AWS Lambda functions: one to delete the items and one to process the items. Create an Amazon EventBridge scheduled rule to invoke the Lambda functions. Use the DeleteItem API operation to delete the items based on the expirationDate attribute. Use the GetRecords API operation to get the items from the DynamoDB table and process them.

D. Enable TTL on the expirationDate attribute in the table. Specify an Amazon Simple Queue Service (Amazon SQS) dead-letter queue as the target to delete the items. Create an AWS Lambda function to process the items.

Correct Answer: C

QUESTION 5

A company with multiple branch locations has an analytics and reporting application. Each branch office pushes a sales report to a shared Amazon S3 bucket at a predefined time each day. The company has developed an AWS Lambda

function that analyzes the reports from all branch offices in a single pass. The Lambda function stores the results in a database.

The company needs to start the analysis once each day at a specific time.

Which solution will meet these requirements MOST cost-effectively?

A. Configure an S3 event notification to invoke the Lambda function when a branch office uploads a sales report.

B. Create an AWS Step Functions state machine that invokes the Lambda function once each day at the predefined time.

C. Configure the Lambda function to run continuously and to begin analysis only at the predefined time each day.

D. Create an Amazon EventBridge scheduled rule that invokes the Lambda function once each day at the predefined time.

Correct Answer: D

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