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QUESTION 1

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 2

A company is developing a serverless multi-tier application on AWS. The company will build the serverless logic tier by using Amazon API Gateway and AWS Lambda. While the company builds the logic tier, a developer who works on the frontend of the application must develop integration tests. The tests must cover both positive and negative scenarios, depending on success and error HTTP status codes.

Which solution will meet these requirements with the LEAST effort?

- A. Set up a mock integration for API methods in API Gateway. In the integration request from Method Execution, add simple logic to return either a success or error based on HTTP status code. In the integration response, add messages that correspond to the HTTP status codes.
- B. Create two mock integration resources for API methods in API Gateway. In the integration request, return a success HTTP status code for one resource and an error HTTP status code for the other resource. In the integration response, add messages that correspond to the HTTP status codes.
- C. Create Lambda functions to perform tests. Add simple logic to return either success or error, based on the HTTP status codes. Build an API Gateway Lambda integration. Select appropriate Lambda functions that correspond to the HTTP status codes.
- D. Create a Lambda function to perform tests. Add simple logic to return either success or error-based HTTP status codes. Create a mock integration in API Gateway. Select the Lambda function that corresponds to the HTTP status codes.

Correct Answer: A

QUESTION 3

A developer needs temporary access to resources in a second account.

What is the MOST secure way to achieve this?



- A. Use the Amazon Cognito user pools to get short-lived credentials for the second account.
- B. Create a dedicated IAM access key for the second account, and send it by mail.
- C. Create a cross-account access role, and use sts:AssumeRole API to get short-lived credentials.
- D. Establish trust, and add an SSH key for the second account to the IAM user.

Correct Answer: C

QUESTION 4

A company has a web application that is deployed on AWS. The application uses an Amazon API Gateway API and an AWS Lambda function as its backend.

The application recently demonstrated unexpected behavior. A developer examines the Lambda function code, finds an error, and modifies the code to resolve the problem. Before deploying the change to production, the developer needs to

run tests to validate that the application operates properly.

The application has only a production environment available. The developer must create a new development environment to test the code changes. The developer must also prevent other developers from overwriting these changes during the

test cycle.

Which combination of steps will meet these requirements with the LEAST development effort? (Choose two.)

- A. Create a new resource in the current stage. Create a new method with Lambda proxy integration. Select the Lambda function. Add the hotfix alias. Redeploy the current stage. Test the backend.
- B. Update the Lambda function in the API Gateway API integration request to use the hotfix alias. Deploy the API Gateway API to a new stage named hotfix. Test the backend.
- C. Modify the Lambda function by fixing the code. Test the Lambda function. Create the alias hotfix. Point the alias to the \$LATEST version.
- D. Modify the Lambda function by fixing the code. Test the Lambda function. When the Lambda function is working as expected, publish the Lambda function as a new version. Create the alias hotfix. Point the alias to the new version.
- E. Create a new API Gateway API for the development environment. Add a resource and method with Lambda integration. Choose the Lambda function and the hotfix alias. Deploy to a new stage. Test the backend.

Correct Answer: BD

QUESTION 5

A developer is writing unit tests for a new application that will be deployed on AWS. The developer wants to validate all pull requests with unit tests and merge the code with the main branch only when all tests pass.

The developer stores the code in AWS CodeCommit and sets up AWS CodeBuild to run the unit tests. The developer creates an AWS Lambda function to start the CodeBuild task. The developer needs to identify the CodeCommit events in



an Amazon EventBridge event that can invoke the Lambda function when a pull request is created or updated.

Which CodeCommit event will meet these requirements?

- ☐ A.
- ```
{
 "source": ["aws.codecommit"],
 "detail": {
 "event": ["pullRequestMergeStatusUpdated"],
 }
}
```
- ☐ B.
- ```
{
  "source": ["aws.codecommit"],
  "detail": {
    "event": ["pullRequestApprovalRuleCreated"]
  }
}
```
- ☐ C.
- ```
{
 "source": ["aws.codecommit"],
 "detail": {
 "event": ["pullRequestSourceBranchUpdated", "pullRequestCreated"]
 }
}
```
- ☐ D.
- ```
{
  "source": ["aws.codecommit"],
  "detail": {
    "event": ["pullRequestUpdated", "pullRequestSourceBranchCreated"]
  }
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C