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AWS Certified Developer - Associate

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QUESTION 1

A company has a serverless application that uses Amazon API Gateway backed by AWS Lambda proxy integration. The company is developing several backend APIs. The company needs a landing page to provide an overview of navigation

to the APIs.

A developer creates a new/LandingPage resource and a new GET method that uses mock integration.

What should the developer do next to meet these requirements?

A. Configure the integration request mapping template with Content-Type of text/html and statusCode of 200. Configure the integration response mapping template with Content-Type of application/json. In the integration response mapping template, include the LandingPage HTML code that references the APIs.

B. Configure the integration request mapping template with Content-Type of application/json. In the integration request mapping template, include the LandingPage HMTL code that references the APIs. Configure the integration response mapping template with Content-Type of text/html and statusCode of 200.

C. Configure the integration request mapping template with Content-Type of application/json and statusCode of 200. Configure the integration response mapping template with Content-Type of text/html. In the integration response mapping template, include the LandingPage HTML code that references the APIs.

D. Configure the integration request mapping template with Content-Type of text/html. In the integration request mapping template, include the LandingPage HTML code that references the APIs. Configure the integration response mapping template with Content-Type of application/json and statusCode of 200.

Correct Answer: C

By configuring the integration request and response mapping templates as described, you ensure that the mock integration correctly serves the HTML landing page, meeting the requirement of providing an overview and navigation to the backend APIs.

QUESTION 2

A developer wants to reduce risk when deploying a new version of an existing AWS Lambda function. To test the Lambda function, the developer needs to split the traffic between the existing version and the new version of the Lambda function.

Which solution will meet these requirements?

A. Configure a weighted routing policy in Amazon Route 53. Associate the versions of the Lambda function with the weighted routing policy.

B. Create a function alias. Configure the alias to split the traffic between the two versions of the Lambda function.

C. Create an Application Load Balancer (ALB) that uses the Lambda function as a target. Configure the ALB to split the traffic between the two versions of the Lambda function.

D. Create the new version of the Lambda function as a Lambda layer on the existing version. Configure the function to split the traffic between the two layers.

Correct Answer: B

QUESTION 3

A developer has an application that stores data in an Amazon S3 bucket. The application uses an HTTP API to store and retrieve objects. When the PutObject API operation adds objects to the S3 bucket the developer must encrypt these objects at rest by using server- side encryption with Amazon S3 managed keys (SSE-S3).

Which solution will meet this requirement?

A. Create an AWS Key Management Service (AWS KMS) key. Assign the KMS key to the S3 bucket.

B. Set the x-amz-server-side-encryption header when invoking the PutObject API operation.

C. Provide the encryption key in the HTTP header of every request.

D. Apply TLS to encrypt the traffic to the S3 bucket.

Correct Answer: B

https://docs.aws.amazon.com/AmazonS3/latest/userguide/UsingServerSideEncryption.html

QUESTION 4

An application under development is required to store hundreds of video files. The data must be encrypted within the application prior to storage, with a unique key for each video file. How should the developer code the application?

A. Use the KMS Encrypt API to encrypt the data. Store the encrypted data key and data.

B. Use a cryptography library to generate an encryption key for the application. Use the encryption key to encrypt the data. Store the encrypted data.

C. Use the KMS GenerateDataKey API to get a data key. Encrypt the data with the data key. Store the encrypted data key and data.

D. Upload the data to an S3 bucket using server side-encryption with an AWS KMS key.

Correct Answer: C

QUESTION 5

A company stores all personally identifiable information (PII) in an Amazon DynamoDB table named PII in Account A. Developers are working on an application that is running on Amazon EC2 instances in Account B. The application in

Account B requires access to the PII table.

An administrator in Account A creates an IAM role named AccessPII that has permission to access the PII table. The administrator also creates a trust policy that specifies Account B as a principal that can assume the role.

Which combination of steps should the developers take in Account B to allow their application to access the PII table? (Choose two.)

A. Allow the EC2 IAM role the permission to assume the AccessPII role.

B. Allow the EC2 IAM role the permission to access the PII table.

C. Include the AWS API in the application code logic to obtain temporary credentials from the EC2 IAM role to access the PII table.

D. Include the AssumeRole API operation in the application code logic to obtain temporary credentials to access the PII table.

E. Include the GetSessionToken API operation in the application code logic to obtain temporary credentials to access the PII table.

Correct Answer: AD

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