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Amazon AWS Certified Developer - Associate Sample Questions (Q205-Q210):

NEW QUESTION # 205

A developer is creating an application that includes an Amazon API Gateway REST API in the us-east-2 Region. The developer wants to use Amazon CloudFront and a custom domain name for the API. The developer has acquired an SSL/TLS certificate for the domain from a third-party provider.

How should the developer configure the custom domain for the application?

- A. Import the SSL/TLS certificate into AWS Certificate Manager (ACM) in the same Region as the API. Create a DNS A record for the custom domain.
- B. Import the SSL/TLS certificate into CloudFront. Create a DNS CNAME record for the custom domain.

- C. Import the SSL/TLS certificate into AWS Certificate Manager (ACM) in the same Region as the API. Create a DNS CNAME record for the custom domain.
- D. Import the SSL/TLS certificate into AWS Certificate Manager (ACM) in the us-east-1 Region. Create a DNS CNAME record for the custom domain.

Answer: B

NEW QUESTION # 206

A company has built a serverless application for its ecommerce website. The application includes a REST API in Amazon API Gateway that invokes an AWS Lambda function. The Lambda function processes data and stores the data in Amazon DynamoDB table. The Lambda function calls a third-party stock application API to process the order. After the order is processed, the Lambda function returns an HTTP 200 status code with no body to the client.

During peak usage when the API calls exceeds a certain threshold, the third-party stock application sometimes fails to process the data and responds with error messages. The company needs a solution that will not overwhelm the third-party stock application. Which solution will meet these requirements?

- A. Configure the REST API in API Gateway to write the requests directly into an Amazon Simple Queue Service (Amazon SQS) queue. Configure the Lambda function with a reserved concurrency equal to the third-party stock application's threshold. Set Lambda function to process the messages from the SQS queue.
- B. Configure the REST API in API Gateway to write the requests directly into Amazon Athena. Configure the transformation of the data by using SQL with multiple query result locations set up to point to the DynamoDB table and the third-party stock fulfillment application API. Delete the Lambda function.
- C. Configure the REST API in API Gateway to write the requests directly into DynamoDB. Configure a DynamoDB intrinsic function to perform the transformation. Set up a DynamoDB stream to call the third-party stock application API with each new row. Delete the Lambda function.
- **D. Configure the REST API in API Gateway to write the requests directly into an Amazon Simple Notification Service (Amazon SNS) topic. Configure the Lambda function with a provisioned concurrency equal to the third-party stock application's threshold. Set the Lambda function to process the messages from the SNS topic.**

Answer: D

NEW QUESTION # 207

A developer wants to insert a record into an Amazon DynamoDB table as soon as a new file is added to an Amazon S3 bucket. Which set of steps would be necessary to achieve this?

- A. Create a cron job that will run at a scheduled time and insert the records into DynamoDB.
- **B. Configure an S3 event to invoke an AWS Lambda function that inserts records into DynamoDB.**
- C. Create an event with Amazon EventBridge that will monitor the S3 bucket and then insert the records into DynamoDB.
- D. Create an AWS Lambda function that will poll the S3 bucket and then insert the records into DynamoDB.

Answer: B

Explanation:

Explanation

Amazon S3 is a service that provides highly scalable, durable, and secure object storage. Amazon DynamoDB is a fully managed NoSQL database service that provides fast and consistent performance with seamless scalability. AWS Lambda is a service that lets developers run code without provisioning or managing servers. The developer can configure an S3 event to invoke a Lambda function that inserts records into DynamoDB whenever a new file is added to the S3 bucket. This solution will meet the requirement of inserting a record into DynamoDB as soon as a new file is added to S3.

References:

[Amazon Simple Storage Service (S3)]

[Amazon DynamoDB]

[What Is AWS Lambda? - AWS Lambda]

[Using AWS Lambda with Amazon S3 - AWS Lambda]

NEW QUESTION # 208

An application uses Amazon API Gateway integrated with an AWS Lambda function. Some API requests return HTTP 504

(Gateway Timeout) errors.

The Lambda function timeout is set to 20 seconds. The API Gateway integration timeout is 15 seconds. There are no errors in the Lambda logs.

Which solution will prevent the HTTP 504 errors?

- A. Increase the per-client throttling limit.
- B. Increase the reserved concurrency of the Lambda function.
- C. Increase the timeout of the Lambda function.
- **D. Increase the timeout of the API Gateway integration.**

Answer: D

Explanation:

Amazon API Gateway has a hard integration timeout that determines how long it waits for a backend response. If the backend (Lambda) does not respond within this time, API Gateway returns an HTTP 504 error to the client.

In this scenario, the Lambda function timeout is longer (20 seconds) than the API Gateway integration timeout (15 seconds). AWS documentation states that API Gateway will terminate the request once its timeout is exceeded, even if Lambda continues executing successfully. This explains why there are no Lambda errors despite 504 responses.

Increasing the Lambda timeout (Option B) does not help because API Gateway times out first. Reserved concurrency (Option A) and throttling limits (Option D) are unrelated to request duration.

The correct solution is to increase the API Gateway integration timeout so that it exceeds the maximum expected Lambda execution time. This ensures API Gateway waits long enough for the Lambda response.

Therefore, increasing the API Gateway timeout prevents HTTP 504 errors.

NEW QUESTION # 209

A developer wants to expand an application to run in multiple AWS Regions. The developer wants to copy Amazon Machine Images (AMIs) with the latest changes and create a new application stack in the destination Region. According to company requirements, all AMIs must be encrypted in all Regions. However, not all the AMIs that the company uses are encrypted. How can the developer expand the application to run in the destination Region while meeting the encryption requirement?

- A. Use AWS Key Management Service (AWS KMS) to enable encryption on the unencrypted AMIs. Copy the encrypted AMIs to the destination Region.
- **B. Create new AMIs, and specify encryption parameters. Copy the encrypted AMIs to the destination Region. Delete the unencrypted AMIs.**
- C. Copy the unencrypted AMIs to the destination Region. Enable encryption by default in the destination Region.
- D. Use AWS Certificate Manager (ACM) to enable encryption on the unencrypted AMIs. Copy the encrypted AMIs to the destination Region.

Answer: B

Explanation:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AMIEncryption.html>

Encrypt an unencrypted image during copy

In this scenario, an AMI backed by an unencrypted root snapshot is copied to an AMI with an encrypted root snapshot. The CopyImage action is invoked with two encryption parameters, including a customer managed key.

NEW QUESTION # 210

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