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QUESTION 1

An application that runs on AWS receives messages from an Amazon Simple Queue Service (Amazon SQS) queue and processes the messages in batches. The application sends the data to another SQS queue to be consumed by another legacy application. The legacy system can take up to 5 minutes to process some transaction data.

A developer wants to ensure that there are no out-of-order updates in the legacy system.

The developer cannot alter the behavior of the legacy system.

Which solution will meet these requirements?

- A. Use an SQS FIFO queue. Configure the visibility timeout value.
- B. Use an SQS standard queue with a `SendMessageBatchRequestEntry` data type. Configure the `DelaySeconds` values.
- C. Use an SQS standard queue with a `SendMessageBatchRequestEntry` data type. Configure the visibility timeout value.
- D. Use an SQS FIFO queue. Configure the `DelaySeconds` value.

Correct Answer: A

Explanation:

An SQS FIFO queue is a type of queue that preserves the order of messages and ensures that each message is delivered and processed only once¹. This is suitable for the scenario where the developer wants to ensure that there are no out-of-order updates in the legacy system.

The visibility timeout value is the amount of time that a message is invisible in the queue after a consumer receives it². This prevents other consumers from processing the same message simultaneously. If the consumer does not delete the

message before the visibility timeout expires, the message becomes visible again and another consumer can receive it².

In this scenario, the developer needs to configure the visibility timeout value to be longer than the maximum processing time of the legacy system, which is 5 minutes. This will ensure that the message remains invisible in the queue until the legacy system finishes processing it and deletes it. This will prevent duplicate or out-of-order processing of messages by the legacy system.

QUESTION 2

A company is using an AWS Lambda function to process records from an Amazon Kinesis data stream. The company recently observed slow processing of the records. A developer notices that the iterator age metric for the function is increasing and that the Lambda run duration is constantly above normal.

Which actions should the developer take to increase the processing speed? (Choose two.)

- A. Increase the number of shards of the Kinesis data stream.



- B. Decrease the timeout of the Lambda function.
- C. Increase the memory that is allocated to the Lambda function.
- D. Decrease the number of shards of the Kinesis data stream.
- E. Increase the timeout of the Lambda function.

Correct Answer: AC

QUESTION 3

A developer is building an application that uses Amazon DynamoDB. The developer wants to retrieve multiple specific items from the database with a single API call. Which DynamoDB API call will meet these requirements with the MINIMUM impact on the database?

- A. BatchGetItem
- B. GetItem
- C. Scan
- D. Query

Correct Answer: A

https://docs.aws.amazon.com/amazondynamodb/latest/APIReference/API_BatchGetItem.html

QUESTION 4

A company needs to harden its container images before the images are in a running state. The company's application uses Amazon Elastic Container Registry (Amazon ECR) as an image registry. Amazon Elastic Kubernetes Service (Amazon EKS) for compute, and an AWS CodePipeline pipeline that orchestrates a continuous integration and continuous delivery (CI/CD) workflow.

Dynamic application security testing occurs in the final stage of the pipeline after a new image is deployed to a development namespace in the EKS cluster. A developer needs to place an analysis stage before this deployment to analyze the container image earlier in the CI/CD pipeline.

Which solution will meet these requirements with the MOST operational efficiency?

- A. Build the container image and run the docker scan command locally. Mitigate any findings before pushing changes to the source code repository. Write a pre-commit hook that enforces the use of this workflow before commit.
- B. Create a new CodePipeline stage that occurs after the container image is built. Configure ECR basic image scanning to scan on image push. Use an AWS Lambda function as the action provider. Configure the Lambda function to check the scan results and to fail the pipeline if there are findings.
- C. Create a new CodePipeline stage that occurs after source code has been retrieved from its repository. Run a security scanner on the latest revision of the source code. Fail the pipeline if there are findings.
- D. Add an action to the deployment stage of the pipeline so that the action occurs before the deployment to the EKS cluster. Configure ECR basic image scanning to scan on image push. Use an AWS Lambda function as the action



provider. Configure the Lambda function to check the scan results and to fail the pipeline if there are findings.

Correct Answer: B

<https://docs.aws.amazon.com/AmazonECR/latest/userguide/image-scanning-basic.html>

The below blog post refers to the solution using Amazon Inspector and ECS, but the architecture is almost same as required in this scenario. The built in image scanning in Amazon ECR provides a simpler solution.

<https://aws.amazon.com/blogs/security/use-amazon-inspector-to-manage-your-build-and-deploy-pipelines-for-containerized-applications/>

QUESTION 5

A developer needs to deploy an application running on AWS Fargate using Amazon ECS. The application has environment variables that must be passed to a container for the application to initialize. How should the environment variables be passed to the container?

- A. Define an array that includes the environment variables under the environment parameter within the service definition.
- B. Define an array that includes the environment variables under the environment parameter within the task definition.
- C. Define an array that includes the environment variables under the entryPoint parameter within the task definition.
- D. Define an array that includes the environment variables under the entryPoint parameter within the service definition.

Correct Answer: A

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