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QUESTION 1

An image-processing company has a web application that users use to upload images. The application uploads the images into an Amazon S3 bucket. The company has set up S3 event notifications to publish the object creation events to an

Amazon Simple Queue Service (Amazon SQS) standard queue. The SQS queue serves as the event source for an AWS Lambda function that processes the images and sends the results to users through email.

Users report that they are receiving multiple email messages for every uploaded image. A solutions architect determines that SQS messages are invoking the Lambda function more than once, resulting in multiple email messages.

What should the solutions architect do to resolve this issue with the LEAST operational overhead?

A. Set up long polling in the SQS queue by increasing the ReceiveMessage wait time to 30 seconds.

B. Change the SQS standard queue to an SQS FIFO queue. Use the message deduplication ID to discard duplicate messages.

C. Increase the visibility timeout in the SQS queue to a value that is greater than the total of the function timeout and the batch window timeout.

D. Modify the Lambda function to delete each message from the SQS queue immediately after the message is read before processing.

Correct Answer: C

QUESTION 2

A company has an ordering application that stores customer information in Amazon RDS for MySQL. During regular business hours, employees run one-time queries for reporting purposes. Timeouts are occurring during order processing because the reporting queries are taking a long time to run. The company needs to eliminate the timeouts without preventing employees from performing queries.

What should a solutions architect do to meet those requirements?

A. Create a read replica Move reporting queries to the read replica.

B. Create a read replica. Distribute the ordering application to the primary DB instance and the read replica.

C. Migrate the ordering application to Amazon DynamoDB with on-demand capacity.

D. Schedule the reporting queries for non-peak hours.

Correct Answer: B

QUESTION 3

A company needs to migrate a legacy application from an on-premises data center to the AWS Cloud because of

hardware capacity constraints. The application runs 24 hours a day. and days a week,. The application database storage continues to grow over time.

What should a solution architect do to meet these requirements MOST cost-affectivity?

A. Migrate the application layer to Amazon FC2 Spot Instances Migrate the data storage layer to Amazon S3.

B. Migrate the application layer to Amazon EC2 Reserved Instances Migrate the data storage layer to Amazon RDS On-Demand Instances.

C. Migrate the application layer to Amazon EC2 Reserved instances Migrate the data storage layer to Amazon Aurora Reserved Instances.

D. Migrate the application layer to Amazon EC2 On Demand Amazon Migrate the data storage layer to Amazon RDS Reserved instances.

Correct Answer: C

QUESTION 4

A company is planning to migrate a commercial off-the-shelf application from its on-premises data center to AWS. The software has a software licensing model using sockets and cores with predictable capacity and uptime requirements. The

company wants to use its existing licenses, which were purchased earlier this year.

Which Amazon EC2 pricing option is the MOST cost-effective?

A. Dedicated Reserved Hosts

B. Dedicated On-Demand Hosts

C. Dedicated Reserved Instances

D. Dedicated On-Demand Instances

Correct Answer: A

QUESTION 5

A leasing company generates and emails PDF statements every month for all its customers. Each statement is about 400 KB in size. Customers can download their statements from the website for up to 30 days from when the statements were generated. At the end of their 3-year lease, the customers are emailed a ZIP file that contains all the statements

What is the MOST cost-effective storage solution for this situation?

A. Store the statements using the Amazon S3 Standard storage class Create a lifecycle policy to move the statements to Amazon S3 Glacier storage after 1 day.

B. Store the statements using the Amazon S3 Glacier storage class Create a lifecycle policy to move the statements to Amazon S3 Glacier Deep Archive storage after 30 days.

C. Store the statements using the Amazon S3 Standard storage class. Create a lifecycle policy to move the statements to Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA) storage after 30 days.

D. Store the statements using the Amazon S3 Standard-Infrequent Access (S3 Standard-IA) storage class. Create a lifecycle policy to move the statements to Amazon S3 Glacier storage after 30 days.

Correct Answer: D

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