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Q1. Your application provides data transformation services. Files containing data to be transformed are first uploaded to Amazon S3 and then transformed by a fleet of Spot EC2 Instances. Files submitted by your premium customers must be transformed with the highest priority. How would you implement such a system?

Options

- ☐ Use a DynamoDB table with an attribute defining the priority level. Transformation instances will scan the table for tasks, sorting the results by priority level.
- ☐ Use Route 53 latency-based routing to send high priority tasks to the closest transformation instances.
- ☒ Use two SQS queues, one for high priority messages, the other for default priority.
- ☐ Use a single SQS queue. Each message contains the priority level. Transformation instances poll high-priority messages first.
- ☐ Transformation instances first poll the high priority queue; if there is no message, they poll the default priority queue.

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Q2. An application allows a manufacturing site to upload files. Each uploaded 3 GB file is processed to extract metadata, and this process takes a few seconds per file. The frequency at which the uploads happen is unpredictable. For instance, there may be no updates for hours, followed by several files being uploaded concurrently. What architecture addresses this workload in the most cost efficient manner?

Options

☐ Use a Kinesis Data Delivery Stream to store the file. Use Lambda for processing.

☐ Use an SQS queue to store the file, to be accessed by a fleet of EC2 Instances.

☐ Store the file in an EBS volume, which can then be accessed by another EC2 Instance for processing.

☒ Store the file in an S3 bucket. Use Amazon S3 event notification to invoke a Lambda function for file processing.



Options

- We can use combination of Amazon CloudWatch and AWS SNS. Amazon CloudWatch may be used to monitor IOPS metrics from the RDS instance and Amazon Simple Notification Service, to send the notification if any alarm is triggered.