



AI-100^{Q&As}

Designing and Implementing an Azure AI Solution

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QUESTION 1

You have a solution that runs on a five-node Azure Kubernetes Service (AKS) cluster. The cluster uses an N-series virtual machine.

An Azure Batch AI process runs once a day and rarely on demand.

You need to recommend a solution to maintain the cluster configuration when the cluster is not in use. The solution must not incur any compute costs.

What should you include in the recommendation?

- A. Downscale the cluster to one node
- B. Downscale the cluster to zero nodes
- C. Delete the cluster

Correct Answer: A

An AKS cluster has one or more nodes.

References: <https://docs.microsoft.com/en-us/azure/aks/concepts-clusters-workloads>

QUESTION 2

Your company has a data team of Transact-SQL experts.

You plan to ingest data from multiple sources into Azure Event Hubs.

You need to recommend which technology the data team should use to move and query data from Event Hubs to Azure Storage. The solution must leverage the data team's existing skills.

What is the best recommendation to achieve the goal? More than one answer choice may achieve the goal.

- A. Azure Notification Hubs
- B. Azure Event Grid
- C. Apache Kafka streams
- D. Azure Stream Analytics

Correct Answer: D

Azure Stream Analytics is a real-time analytics and complex event processing engine that is well-suited for ingesting, processing, and storing data from various sources, including Azure Event Hubs. It provides a familiar SQL-like language (Transact-SQL) for querying and transforming data, making it a suitable choice for a data team of Transact-SQL experts. With Azure Stream Analytics, the data team can easily define queries and transformations to move and query data from Event Hubs to Azure Storage.



QUESTION 3

You plan to deploy Azure IoT Edge devices that will each store more than 10,000 images locally and classify the images by using a Custom Vision Service classifier.

Each image is approximately 5 MB.

You need to ensure that the images persist on the devices for 14 days.

What should you use?

- A. The device cache
- B. Azure Blob storage on the IoT Edge devices
- C. Azure Stream Analytics on the IoT Edge devices
- D. Microsoft SQL Server on the IoT Edge devices

Correct Answer: B

References: <https://docs.microsoft.com/en-us/azure/iot-edge/how-to-store-data-blob>

QUESTION 4

You have an AI application that uses keys in Azure Key Vault.

Recently, a key used by the application was deleted accidentally and was unrecoverable.

You need to ensure that if a key is deleted, it is retained in the key vault for 90 days.

Which two features should you configure? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. The expiration date on the keys
- B. Soft delete
- C. Purge protection
- D. Auditors
- E. The activation date on the keys

Correct Answer: BC

References: <https://docs.microsoft.com/en-us/azure/architecture/best-practices/data-partitioning>

QUESTION 5

You have created an AI solution that uses several PersonGroup objects.



One of the PersonGroup objects contains thousands of entries and cannot accept any new entries.

You want to be able to add new entries to the PersonGroup object. The PersonGroup object must be identifiable by all the entries.

Which of the following actions should you take?

- A. Compress the entries from the PersonGroup object.
- B. Create another PersonGroup object with the same name.
- C. Migrate the PersonGroup to a LargePersonGroup object.
- D. Archive some of the entries from the PersonGroup object.

Correct Answer: C

LargePersonGroup and LargeFaceList are collectively referred to as large-scale operations. LargePersonGroup can contain up to 1 million persons, each with a maximum of 248 faces. LargeFaceList can contain up to 1 million faces. The

large-scale operations are similar to the conventional PersonGroup and FaceList but have some differences because of the new architecture.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/how-to-use-large-scale>

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