

## AI-100<sup>Q&As</sup>

Designing and Implementing an Azure AI Solution

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**QUESTION 1**

You are developing an app that consumes data from several Azure IoT Edge devices.

You need to implement a storage solution for the app. Your solution must allow data to be queried in real-time as it streams into the solution. You need to ensure that your solution provides the least amount of latency for loading data.

You want the data files to persist on the devices for at least 14 days.

What storage solution should you implement?

- A. Azure Data Lake Analytics
- B. Azure Data Factory Edge
- C. Azure HDInsight Hadoop cluster
- D. Azure SQL database with In-Memory OLTP

Correct Answer: B

To implement a storage solution that allows real-time querying of data with low latency and ensures data persistence on the devices for at least 14 days, you should use Azure Data Factory Edge.

Azure Data Factory Edge is designed to collect, transform, and analyze data from edge devices. It provides a scalable and reliable solution for ingesting, processing, and storing data at the edge. With Azure Data Factory Edge, you can configure data flows to ingest data from your Azure IoT Edge devices and store it in the desired storage format (e.g., Azure Blob storage, Azure Data Lake Storage).

By using Azure Data Factory Edge, you can set up data pipelines to stream and process the data in real-time, allowing you to query the data as it streams into the solution with minimal latency. Additionally, you can define retention policies to ensure that the data files persist on the devices for at least 14 days.

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**QUESTION 2**

You deploy an Azure bot.

You need to collect Key Performance Indicator (KPI) data from the bot. The type of data includes:

1.  
The number of users interacting with the bot
2.  
The number of messages interacting with the bot
3.  
The number of messages on different channels received by the bot
- 4.

The number of users and messages continuously interacting with the bot What should you configure?

- A. Bot analytics
- B. Azure Monitor
- C. Azure Analysis Services
- D. Azure Application Insights

Correct Answer: A

References: <https://docs.microsoft.com/en-us/azure/bot-service/bot-service-manage-analytics?view=azure-bot-service-4.0>

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### QUESTION 3

You are designing a real-time speech-to-text AI feature for an Android mobile app. The feature will stream data to the Speech service.

You need to recommend which audio format to use to serialize the audio. The solution must minimize the amount of data transferred to the cloud.

What should you recommend?

- A. MP3
- B. WAV/PCM
- C. MP4a

Correct Answer: B

Currently, only the following configuration is supported:

Audio samples in PCM format, one channel, 16 bits per sample, 8000 or 16000 samples per second (16000 or 32000 bytes per second), two block align (16 bit including padding for a sample).

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-use-audio-input-streams>

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### QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are deploying an Azure Machine Learning model to an Azure Kubernetes Service (AKS) container.

You need to monitor the scoring accuracy of each run of the model.

Solution: You configure Azure Monitor for containers.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

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## QUESTION 5

You are developing an AI application that will perform the following functions:

Capture video from hundreds of surveillance cameras.

Recognize faces in the captured videos.

You want to save the captured videos in Azure but you also want to keep costs to a minimum.

Which of the following actions could you take?

A. Make use of Azure Synapse Analytics.

B. Make use of Azure Data Lake Storage.

C. Make use of Azure Blob Storage.

D. Make use of Azure Databricks.

Correct Answer: C

Azure Blob Storage is a cost-effective solution for storing large amounts of unstructured data, such as videos. It provides scalable storage capacity at a lower cost compared to other storage options. With Blob Storage, you can store and manage the captured videos from hundreds of surveillance cameras.

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