

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

Designing and Implementing an Azure AI Solution

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## QUESTION 1

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 2

You have deployed several Azure IoT Edge devices for an AI solution. The Azure IoT Edge devices generate measurement data from temperature sensors.

You need a solution to process the sensor data. Your solution must be able to write configuration changes back to the devices.

You make use of Azure Notification Hub.

Does this action accomplish your objective?

- A. Yes, it does
- B. No, it does not

Correct Answer: B

Azure Notification Hub is a scalable and multi-platform push notification service that enables you to send push notifications to various mobile platforms, such as iOS, Android, and Windows. It provides features for targeting specific devices, sending personalized notifications, and tracking engagement metrics.

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## QUESTION 3

You need to evaluate trends in fuel prices during a period of 10 years. The solution must identify unusual fluctuations in prices and produce visual representations.

Which Azure Cognitive Services API should you use?

- A. Anomaly Detector
- B. Computer Vision
- C. Text Analytics
- D. Bing Autosuggest

Correct Answer: A

The Anomaly Detector API enables you to monitor and detect abnormalities in your time series data with machine learning. The Anomaly Detector API adapts by automatically identifying and applying the best-fitting models to your data, regardless of industry, scenario, or data volume. Using your time series data, the API determines boundaries for anomaly detection, expected values, and which data points are anomalies.

References: <https://docs.microsoft.com/en-us/azure/cognitive-services/anomaly-detector/overview>

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#### QUESTION 4

You have an Azure SQL database an Azure Data Lake Storage Gen 2 account, and an API developed by using Azure Machine Learning Studio.

You need to ingest data once daily from the database. score each row by using me API, and write the data to the storage account

Solution: You create an Azure Data Factory pipeline that contains the Machine Learning Batch Execution activity. Does this mew the goal?

- A. Yes
- B. NO

Correct Answer: A

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#### QUESTION 5

You have an on-premises repository that contains 5,000 videos. The videos feature demonstrations of the products sold by your company.

The company's customers plan to search the videos by using the name of the product demonstrated in each video.

You need to build a custom search tool for the customers.

What should you do first?

- A. Deploy an Azure Media Services resource.
- B. Create an Azure Storage account and a blob container.

C. Create an Azure Search resource.

D. Deploy a Custom Vision API service.

Correct Answer: A

Azure Media Services can be used to encode and package content, stream videos on-demand, broadcast live, analyze your videos with Media Services v3.

You can analyze recorded videos or audio content. For example, to achieve higher customer satisfaction, organizations can extract speech-to-text and build search indexes and dashboards. Then, they can extract intelligence around common

complaints, sources of complaints, and other relevant data.

References:

<https://docs.microsoft.com/en-us/azure/media-services/latest/media-services-overview>

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