

AI-100^{Q&As}

Designing and Implementing an Azure AI Solution

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QUESTION 1

You have Azure IoT Edge devices that collect measurements every 30 seconds.

You plan to send the measurements to an Azure IoT hub.

You need to process events in the cloud.

What should you use?

- A. Apache Kafka
- B. Azure Stream Analytics record functions
- C. Azure Stream Analytics windowing functions
- D. Azure Machine Learning on the IoT Edge devices

Correct Answer: D

Use Azure Notebooks to develop a machine learning module and deploy it to a Linux device running Azure IoT Edge. You can use IoT Edge modules to deploy code that implements your business logic directly to your IoT Edge devices.

References: <https://docs.microsoft.com/en-us/azure/iot-edge/tutorial-deploy-machine-learning>

QUESTION 2

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 have Azure IoT Edge devices that generate streaming data.

On the devices, you need to detect anomalies in the data by using Azure Machine Learning models. Once an anomaly is detected, the devices must add information about the anomaly to the Azure IoT Hub stream.

Solution: You deploy an Azure Machine Learning model as an IoT Edge module.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

You can use IoT Edge modules to deploy code that implements your business logic directly to your IoT Edge devices. For example, you can deploy an Azure Machine Learning module that predicts when a device fails based on simulated

machine temperature data.

References: <https://docs.microsoft.com/bs-latn-ba/azure/iot-edge/tutorial-deploy-machine-learning>

QUESTION 3

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 modify the Config.json file.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead update the manifest file.

Reference: https://azure.github.io/learnAnalytics-UsingAzureMachineLearningforAIWorkloads/lab07-deploying_a_scoring_service_to_aks/0_README.html

QUESTION 4

You design an AI workflow that combines data from multiple data sources for analysis. The data sources are composed of:

1.

JSON files uploaded to an Azure Storage account

2.

On-premises Oracle databases

3.

Azure SQL databases

Which service should you use to ingest the data?

- A. Azure Data Factory
- B. Azure SQL Data Warehouse
- C. Azure Data Lake Storage
- D. Azure Databricks

Correct Answer: A

References: <https://docs.microsoft.com/en-us/azure/data-factory/introduction>

QUESTION 5

Your company's marketing department is creating a social media campaign that will allow users to submit video messages for the company's social media sites.

You are developing an AI app for the campaign. Your app must meet the following requirements:

Add captions to the video messages before they are posted to the social media sites.

Ensure that no negative video messages are posted to the social media sites. Which of the following actions should you take?

- A. Implement Form Recognizer in your app.
- B. Implement the Face API in your app.
- C. Implement Custom Vision in your app.
- D. Implement Video Indexer in your app.

Correct Answer: D

Video Indexer includes Audio transcription: Converts speech to text in 12 languages and allows extensions. Supported languages include English, Spanish,

French, German, Italian, Mandarin Chinese, Japanese, Arabic, Russian, Portuguese, Hindi, and Korean.

When indexing by one channel, partial result for those models will be available, such as sentiment analysis: Identifies positive, negative, and neutral sentiments from speech and visual text.

Reference:

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

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