



AI-100^{Q&As}

Designing and Implementing an Azure AI Solution

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QUESTION 1

You need to meet the greeting requirements for Butler. Which type of authentication should you use?

- A. AdaptiveCard
- B. SigninCard
- C. CardCarousel
- D. HeroCard

Correct Answer: D

Scenario: Butler must greet users by name when they first connect. HeroCard defines a card with a large image, title, text, and action buttons. Incorrect Answers:

B: SigninCard defines a card that lets a user sign in to a service. References: <https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-send-welcome-message>

QUESTION 2

You need to design an application that will analyze real-time data from financial feeds.

The data will be ingested into Azure IoT Hub. The data must be processed as quickly as possible in the order in which it is ingested.

Which service should you include in the design?

- A. Azure Data Factory
- B. Azure Queue storage
- C. Azure Stream Analytics
- D. Azure Notification Hubs
- E. Apache Kafka
- F. Azure Event Hubs

Correct Answer: C

Stream processing can be handled by Azure Stream Analytics. Azure Stream Analytics can run perpetual queries against an unbounded stream of data. These queries consume streams of data from storage or message brokers, filter and aggregate the data based on temporal windows, and write the results to sinks such as storage, databases, or directly to reports in Power BI. Stream Analytics uses a SQL-based query language that supports temporal and geospatial constructs, and can be extended using JavaScript.

Incorrect Answers:

E: Apache Kafka is used for ingestion, not for stream processing.



F: Azure Event Hubs is used for ingestion, not for stream processing.

Reference: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/big-data/real-time-processing>

QUESTION 3

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>

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 developing an application that uses an Azure Kubernetes Service (AKS) cluster.

You are troubleshooting a node issue.



You need to connect to an AKS node by using SSH.

Solution: You change the permissions of the AKS resource group, and then you create an SSH connection.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead add an SSH key to the node, and then you create an SSH connection.

References: <https://docs.microsoft.com/en-us/azure/aks/ssh>

QUESTION 5

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 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 the API, and write the data to the storage account.

Solution: You create an Azure Data Factory pipeline that contains a Machine Learning Execute Pipeline activity.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

The Machine Learning Execute Pipeline activity enables batch prediction scenarios such as identifying possible loan defaults, determining sentiment, and analyzing customer behavior patterns.

Reference: <https://docs.microsoft.com/en-us/azure/data-factory/transform-data-machine-learning-service>

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