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

Designing and Implementing an Azure AI Solution

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**QUESTION 1**

You are developing an application that uses the Computer Vision API.

Your application will perform the following steps:

Take data from an on-premises database and load it to an Azure Blob storage account.

Connect to an Azure Machine Learning service.

You need to orchestrate the workflow.

What should you use?

A. Azure Kubernetes Service (AKS)

B. Azure Pipelines

C. Azure Data Factory

D. An Azure HDInsight cluster

E. Azure Data Lake

Correct Answer: C

Azure Data Factory is a fully managed data integration service that allows you to orchestrate and automate data movement and data transformation workflows. It provides a visual interface for building complex data pipelines and supports

various data sources and destinations, including on-premises databases and Azure Blob storage. With Azure Data Factory, you can easily move data from your on-premises database to Azure Blob storage and then connect to Azure Machine

Learning service for further processing using the Computer Vision API.

Reference:

https://azure.microsoft.com/en-us/services/data-factory/

**QUESTION 2**

Your company has several mobile apps, each of which are consumed by several thousand users.

You are creating an AI application that analyzes the user behavior on the company\\'s mobile apps.

You want to use a Microsoft Azure service to ingest the real-time data originating from the mobile app users. You also want to keep costs at a minimum.

Which of the following actions should you take?

A. Make use of Microsoft Azure Event Hubs

B. Make use of Microsoft Azure Notification Hubs

C. Make use of Microsoft Azure IoT Hub

D. Make use of Microsoft Azure Service Bus

Correct Answer: A

In this scenario, where you need to ingest real-time data originating from mobile app users and keep costs at a minimum, the most suitable option is to make use of Microsoft Azure Event Hubs. Azure Event Hubs is a scalable and event ingestion service that can handle millions of events per second. It is specifically designed for real-time streaming of data from various sources, including mobile devices. It provides low latency, high throughput, and cost-effective data ingestion capabilities.

**QUESTION 3**

Your company uses several bots. The bots use Azure Bot Service.

Several users report that some of the bots fail to return the expected results.

You plan to view the service health of the bot service.

You need to request the appropriate role to access the service health of the bot service. The solution must use the principle of least privilege.

Which role should you request?

A. The Contributor role on the Azure subscription

B. The Reader role on the bot service

C. The Owner role on the bot service

D. The Reader role on the Azure subscription

Correct Answer: B

Use the Reader role on the bot service to limit access and scope.

Note: Access management for cloud resources is a critical function for any organization that is using the cloud. Azure role-based access control (Azure RBAC) helps you manage who has access to Azure resources, what they can do with

those resources, and what areas they have access to.

Azure includes several built-in roles that you can use. The Reader Role can view existing Azure resources.

Scope is the set of resources that the access applies to. When you assign a role, you can further limit the actions allowed by defining a scope. In Azure, you can specify a scope at multiple levels: management group, subscription, resource

group, or resource.

Reference:

https://docs.microsoft.com/en-us/azure/role-based-access-control/overview

**QUESTION 4**

Your company has recently purchased and deployed 25,000 IoT devices.

You need to recommend a data analysis solution for the devices that meets the following requirements:

1.

Each device must use its own credentials for identity.

2.

Each device must be able to route data to multiple endpoints.

3.

The solution must require the minimum amount of customized code. What should you include in the recommendation?

A. Microsoft Azure Notification Hubs

B. Microsoft Azure Event Hubs

C. Microsoft Azure IoT Hub

D. Microsoft Azure Service Bus

Correct Answer: C

An IoT hub has a default built-in endpoint. You can create custom endpoints to route messages to by linking other services in your subscription to the hub. Individual devices connect using credentials stored in the IoT hub\\'s identity registry.

References: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-security

**QUESTION 5**

You are developing a Microsoft Bot Framework application. The application consumes structured NoSQL data that must be stored in the cloud.

You implement Azure Blob storage for the application. You want access to the blob store to be controlled by using a role.

You implement On-premises Active Directory Domain Services (AD DS).

Does this action accomplish your objective?

A. Yes, it does

B. No, it does not

Correct Answer: B

Implementing On-premises Active Directory Domain Services (AD DS) alone does not accomplish the objective of controlling access to Azure Blob storage based on a role.

On-premises AD DS is designed for managing user accounts, groups, and authentication within an on-premises network. It does not directly integrate with Azure Blob storage to control access based on roles.

To achieve role-based access control (RBAC) for Azure Blob storage, you should consider integrating Azure Active Directory (Azure AD) with your application. Azure AD provides a cloud-based identity and access management solution that can be used to define roles, assign permissions, and control access to Azure resources, including Blob storage.

By implementing Azure AD integration, you can manage access to Blob storage based on roles defined in Azure AD, granting or restricting access to users or groups based on their assigned roles.

**QUESTION 6**

You are developing a bot for an ecommerce application. The bot will support five languages.

The bot will use Language Understanding (LUIS) to detect the language of the customer, and QnA Maker to answer common customer questions. LUIS supports all the languages.

You need to determine the minimum number of Azure resources that you must create for the bot.

You create five instances of QnA Maker and one instance Language Understanding (LUIS).

Does this action accomplish your objective?

A. Yes, it does

B. No, it does not

Correct Answer: A

By creating one instance of Language Understanding (LUIS) that supports all five languages, and five instances of QnA Maker to handle the common customer questions in each language, you have fulfilled the requirement of supporting five languages in the bot. This approach ensures that you have the necessary Azure resources in place to handle the language detection and question answering functionalities for each language.

**QUESTION 7**

You are designing an AI workflow that performs data analysis from multiple data sources. The data sources consist of JSON files that have been uploaded to an

Azure Storage account, on-premises Oracle databases, and Azure SQL databases.

Which service should you recommend to ingest the data?

A. Azure Data Factory

B. Azure Kubernetes Service (AKS)

C. Azure Bot Service

D. Azure Databricks

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Correct Answer: A

Azure Data Factory is a fully managed data integration service that allows you to create workflows and pipelines to orchestrate and automate data movement and transformation. It supports a wide range of data sources and provides built-in connectors for Azure Storage, Oracle databases, and Azure SQL databases.

**QUESTION 8**

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

**QUESTION 9**

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 10**

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

**QUESTION 11**

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.

**QUESTION 12**

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.

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You have an app named App1 that uses the Face API.

App1 contains several PersonGroup objects.

You discover that a PersonGroup object for an individual named Ben Smith cannot accept additional entries. The PersonGroup object for Ben Smith contains 10,000 entries.

You need to ensure that additional entries can be added to the PersonGroup object for Ben Smith. The solution must ensure that Ben Smith can be identified by all the entries.

Solution: You delete 1,000 entries from the PersonGroup object for Ben Smith.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

**QUESTION 13**

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 ensure that every event is processed as quickly as possible.

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: A

https://docs.microsoft.com/en-us/azure/iot-edge/tutorial-deploy-stream-analytics

**QUESTION 14**

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

**QUESTION 15**

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

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review screen.

You create several API models in Azure Machine Learning Studio.

You deploy the models to a production environment.

You need to monitor the compute performance of the models.

Solution: You create environment files.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

You need to enable Model data collection.

References: https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-enable-data-collection

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