

AI-100^{Q&As}

Designing and Implementing an Azure AI Solution

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QUESTION 1

You have an AI application that uses keys in Azure Key Vault.

Recently, a key used by the application was deleted accidentally and was unrecoverable.

You need to ensure that if a key is deleted, it is retained in the key vault for 90 days.

Which two features should you configure? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. The expiration date on the keys
- B. Soft delete
- C. Purge protection
- D. Auditors
- E. The activation date on the keys

Correct Answer: BC

References: <https://docs.microsoft.com/en-us/azure/architecture/best-practices/data-partitioning>

QUESTION 2

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 3

You are designing a solution that will integrate the Bing Web Search API and will return a JSON response. The development team at your company uses C# as its primary development language.

You provide developers with the Bing endpoint.

Which additional component do the developers need to prepare and to retrieve data by using an API call?

- A. the subscription ID
- B. the API key
- C. a query
- D. the resource group ID

Correct Answer: C

The Bing Web Search SDK makes it easy to integrate Bing Web Search into your C# application. You instantiate a client, send a request, and receive a response.

References: <https://docs.microsoft.com/en-us/azure/cognitive-services/bing-web-search/web-search-sdk-quickstart>

QUESTION 4

You are developing an app that will analyze sensitive data from global users.

Your app must adhere the following compliance policies:

The app must not store data in the cloud.

The app not use services in the cloud to process the data.

Which of the following actions should you take?

- A. Make use of Azure Machine Learning Studio
- B. Make use of Docker containers for the Text Analytics
- C. Make use of a Text Analytics container deployed to Azure Kubernetes Service
- D. Make use of Microsoft Machine Learning (MML) for Apache Spark

Correct Answer: D

<https://github.com/MicrosoftDocs/azure-docs/blob/ccf49761e4aefed30d723805f4f09e753615fb09/articles/cognitive->

services/cognitive-services-container-support.md

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 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 create a managed identity for AKS, 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 6

You are developing an app that will perform the following tasks:

Evaluate trends in blue chip stock prices over the past decade.

Identify unusual fluctuations in stock prices.

Produce visual representations of the data.

You need to determine which Azure Cognitive Services APIs would be suitable for the app.

Which of the following actions should you take?

A. Make use of the Anomaly Detector API

B. Make use of the Computer Vision API

C. Make use of the QnA Maker API

D. Make use of the Custom Vision API

Correct Answer: A

The Anomaly Detector API is designed to detect anomalies and unusual patterns in time-series data. It can analyze the historical stock price data over the past decade to identify any abnormal fluctuations or patterns. By leveraging this API, you can automatically detect unusual behavior in the stock prices and take appropriate actions.

QUESTION 7

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>

QUESTION 8

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.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/overview/language-support>
<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-language-support>

QUESTION 9

Your company plans to deploy an AI solution that processes IoT data in real-time.

You need to recommend a solution for the planned deployment that meets the following requirements:

1.

Sustain up to 50 Mbps of events without throttling.

2.

Retain data for 60 days. What should you recommend?

- A. Apache Kafka
- B. Microsoft Azure IoT Hub
- C. Microsoft Azure Data Factory
- D. Microsoft Azure Machine Learning

Correct Answer: A

Apache Kafka is an open-source distributed streaming platform that can be used to build real-time streaming data pipelines and applications. References: <https://docs.microsoft.com/en-us/azure/hdinsight/kafka/apache-kafka-introduction>

QUESTION 10

Your company recently deployed several hardware devices that contain sensors.

The sensors generate new data on an hourly basis. The data generated is stored on-premises and retained for several

years.

During the past two months, the sensors generated 300 GB of data.

You plan to move the data to Azure and then perform advanced analytics on the data.

You need to recommend an Azure storage solution for the data.

Which storage solution should you recommend?

- A. Azure Queue storage
- B. Azure Cosmos DB
- C. Azure Blob storage
- D. Azure SQL Database

Correct Answer: C

References: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/data-storage>

QUESTION 11

You create an Azure Cognitive Services resource.

You develop needs to be able to retrieve the keys used by the resource. The solution must use the principle of least privilege.

What is the best role to assign to the developer? More than one answer choice may achieve the goal.

- A. Security Manager
- B. Security Reader
- C. Cognitive Services Contributor
- D. Cognitive Services User

Correct Answer: D

The Cognitive Services User lets you read and list keys of Cognitive Services.

References: <https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

QUESTION 12

You are designing a solution that will use the Azure Content Moderator service to moderate user-generated content.

You need to moderate custom predefined content without repeatedly scanning the collected content.

Which API should you use?

- A. Term List API
- B. Text Moderation API
- C. Image Moderation API
- D. Workflow API

Correct Answer: A

The default global list of terms in Azure Content Moderator is sufficient for most content moderation needs. However, you might need to screen for terms that are specific to your organization. For example, you might want to tag competitor

names for further review.

Use the List Management API to create custom lists of terms to use with the Text Moderation API. The Text - Screen operation scans your text for profanity, and also compares text against custom and shared blacklists.

Incorrect Answers:

B: Use the Text Moderation API in Azure Content Moderator to scan your text content. The operation scans your content for profanity, and compares the content against custom and shared blacklists.

References: <https://docs.microsoft.com/en-us/azure/cognitive-services/content-moderator/try-terms-list-api>

QUESTION 13

You have Azure IoT Edge devices that generate measurement data from temperature sensors. The data changes very slowly.

You need to analyze the data in a temporal two-minute window. If the temperature rises five degrees above a limit, an alert must be raised. The solution must minimize the development of custom code.

What should you use?

- A. A Machine Learning model as a web service
- B. an Azure Machine Learning model as an IoT Edge module
- C. Azure Stream Analytics as an IoT Edge module
- D. Azure Functions as an IoT Edge module

Correct Answer: C

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

QUESTION 14

Your company has 1,000 AI developers who are responsible for provisioning environments in Azure.

You need to control the type, size, and location of the resources that the developers can provision.

What should you use?

- A. Azure Key Vault
- B. Azure service principals
- C. Azure managed identities
- D. Azure Security Center
- E. Azure Policy

Correct Answer: B

When an application needs access to deploy or configure resources through Azure Resource Manager in Azure Stack, you create a service principal, which is a credential for your application. You can then delegate only the necessary permissions to that service principal.

References: <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-create-service-principals>

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 review screen.

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 modify the custom time interval for the training phase of App1.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Instead, use a LargePersonGroup. 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.

References: <https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/how-to-use-large-scale>

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