AI-100Q&As

Designing and Implementing an Azure AI Solution

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QUESTION 1

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 create several AI 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 enable AppInsights diagnostics.

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

QUESTION 2

You are designing a business application that will use Azure Cognitive Services to parse images of business forms. You have the following requirements:

Parsed image data must be uploaded to Azure Storage once a week.

The solution must minimize infrastructure costs.

What should you do?

A. Use Azure API Apps to upload the data.

B. Use Azure Bot Service to upload the data.

C. Use Azure Data Factory (ADF) to upload the data.

D. Use Azure Machine Learning to upload the data.

Correct Answer: C

Azure Data Factory (ADF) is a cloud-based data integration service that allows you to create data-driven workflows for

orchestrating and automating data movement and transformation. In this scenario, ADF can be used to schedule and automate the process of uploading the parsed image data to Azure Storage once a week.

ADF provides a cost-effective solution as it allows you to define data pipelines without the need for extensive infrastructure setup or management. It can handle large-scale data transfers efficiently and provides built-in connectors for Azure Storage, enabling seamless integration with the storage service.

Using Azure API Apps or Azure Bot Service would not be the most suitable options for uploading data to Azure Storage as they are primarily designed for building APIs or developing conversational agents, respectively. Azure Machine Learning is a platform for developing and deploying machine learning models, not specifically designed for data uploading tasks.

QUESTION 3

You are developing a mobile app for a conference provider. The mobile app will use speech-to-text to provide real-time transcription at a conference.

You need to ensure that the app can identify participants at the conference when they make contributions.

What actions should you take?

A. Instruct each participant to record the conference in the .wav format.

B. Instruct each participant to create a voice signature.

C. Instruct each participant to sign up for Azure Speech Services.

D. Instruct each participant to install the Speech SDK on their mobile device.

Correct Answer: B

The first step is to create voice signatures for the conversation participants. Creating voice signatures is required for efficient speaker identification.

Note: In addition to the standard baseline model used by the Speech Services, you can customize models to your needs with available data, to overcome speech recognition barriers such as speaking style, vocabulary and background noise.

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-use-conversation-transcription

QUESTION 4

You are designing a Computer Vision AI application.

You need to recommend a deployment solution for the application. The solution must ensure that costs scale linearly without any upfront costs.

What should you recommend?

A. a containerized Computer Vision API on Azure Container Instances

B. the Computer Vision API as a single resource

C. an Azure Container Service

D. a containerized Computer Vision API on Azure Kubernetes Service (AKS) that has virtual nodes configured

Correct Answer: A

Containers enable you to run the Computer Vision APIs in your own environment.

Note: The host is a x64-based computer that runs the Docker container. It can be a computer on your premises or a Docker hosting service in Azure, such as:

1.

Azure Container Instances.

2.

Azure Kubernetes Service.

3.

A Kubernetes cluster deployed to Azure Stack.

References: https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/computer-vision-how-to-install-containers

QUESTION 5

You have a solution that runs on a five-node Azure Kubernetes Service (AKS) cluster. The cluster uses an N-series virtual machine.

An Azure Batch AI process runs once a day and rarely on demand.

You need to recommend a solution to maintain the cluster configuration when the cluster is not in use. The solution must not incur any compute costs.

What should you include in the recommendation?

A. Downscale the cluster to one node

B. Downscale the cluster to zero nodes

C. Delete the cluster

Correct Answer: A

An AKS cluster has one or more nodes.

References: https://docs.microsoft.com/en-us/azure/aks/concepts-clusters-workloads