AI-100Q&As

Designing and Implementing an Azure AI Solution

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QUESTION 1

You are developing a bot for an ecommerce application.

You must implement user authentication for the bot. You want the authentication process to be encrypted.

What actions should you take?

A. Make use of NTLM and smart cards

B. Make use of SSL/TLS and JSON Web Token (JWT)

C. Make use of API keys and access keys

D. Make use of HTTPS and Kerberos

Correct Answer: B

Your bot communicates with the Bot Connector service using HTTP over a secured channel (SSL/TLS).

JSON Web Tokens are used to encode tokens that are sent to and from the bot.

Reference:

https://docs.microsoft.com/en-us/azure/bot-service/rest-api/bot-framework-rest-connector-authentication

QUESTION 2

You are developing a mobile application. You want to implement search functionality in the application.

Your solution must meet the following requirements:

Users must be able to run searches by typing in their search query.

Users must be able to run searches by voice commands.

Which of the following actions should you take?

A. Make use of Language Understanding (LUIS)

B. Make use of QnA Maker

C. Make use of Bing Entity Search

D. Make use of Azure Cognitive Search

Correct Answer: A

Language Understanding (LUIS) is a natural language processing service provided by Microsoft Azure. It allows you to build applications that can understand and interpret user\\'s intents from their spoken or typed input. By using LUIS, you can train a language model to recognize specific search intents and extract relevant entities from user queries. LUIS supports both text and speech input, making it suitable for implementing search functionality that can be accessed via typing or voice commands.

QUESTION 3

You are developing an application that will perform optical character recognition of photos of medical logbooks.

You need to recommend a solution to validate the data against a validated set of records.

Which service should you include in the recommendation?

A. Azure Data Catalog

B. Text Analytics

C. Bing Autosuggest

D. Master Data Services (MDS) in Microsoft SQL Server

Correct Answer: D

References: https://docs.microsoft.com/en-us/sql/master-data-services/validation-master-data-services?view=sql-server-2017

QUESTION 4

You are designing an AI solution in Azure that will perform image classification.

You need to identify which processing platform will provide you with the ability to update the logic over time. The solution must have the lowest latency for inferencing without having to batch.

Which compute target should you identify?

A. graphics processing units (GPUs)

B. field-programmable gate arrays (FPGAs)

C. central processing units (CPUs)

D. application-specific integrated circuits (ASICs)

Correct Answer: B

FPGAs, such as those available on Azure, provide performance close to ASICs. They are also flexible and reconfigurable over time, to implement new logic. Incorrect Answers:

D: ASICs are custom circuits, such as Google\\'s TensorFlow Processor Units (TPU), provide the highest efficiency. They can\\'t be reconfigured as your needs change.

References: https://docs.microsoft.com/en-us/azure/machine-learning/service/concept-accelerate-with-fpgas

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

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

By default, SSH keys are generated when you create an AKS cluster. If you did not specify your own SSH keys when you created your AKS cluster, add your public SSH keys to the AKS nodes. You also need to create an SSH connection to the AKS node.

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