



AI-102^{Q&As}

Designing and Implementing a Microsoft Azure AI Solution

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**QUESTION 1**

You have the following data sources:

Finance: On-premises Microsoft SQL Server database
Sales: Azure Cosmos DB using the Core (SQL) API
Logs: Azure Table storage
HR: Azure SQL database

You need to ensure that you can search all the data by using the Azure Cognitive Search REST API. What should you do?

- A. Configure multiple read replicas for the data in Sales.
- B. Mirror Finance to an Azure SQL database.
- C. Migrate the data in Sales to the MongoDB API.
- D. Ingest the data in Logs into Azure Sentinel.

Correct Answer: B

On-premises Microsoft SQL Server database cannot be used as an index data source.

Note: Indexer in Azure Cognitive Search: : Automate aspects of an indexing operation by configuring a data source and an indexer that you can schedule or run on demand. This feature is supported for a limited number of data source types on Azure.

Indexers crawl data stores on Azure. Azure Blob Storage Azure Data Lake Storage Gen2 (in preview) Azure Table Storage Azure Cosmos DB Azure SQL Database SQL Managed Instance SQL Server on Azure Virtual Machines

Reference: <https://docs.microsoft.com/en-us/azure/search/search-indexer-overview#supported-data-sources>

QUESTION 2

You are developing the chatbot.

You create the following components:

1.
A QnA Maker resource
2.
A chatbot by using the Azure Bot Framework SDK

You need to integrate the components to meet the chatbot requirements.

Which property should you use?

- A. QnAMakerOptions.StrictFilters
- B. QnADialogResponseOptions.CardNoMatchText



C. QnAMakerOptions.RankerType

D. QnAMakerOptions.ScoreThreshold

Correct Answer: D

Technical Requirements says "AI solution responses must have a confidence score that is equal to or greater than 70 percent" and "When the response confidence score is low, ensure that the chatbot can provide other response options to the customers" <https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/concepts/confidence-score#set-threshold>

QUESTION 3

You have the following C# method.

```
static void create_resource(string resource_name, string kind, string account_tier, string location)
{
    CognitiveServicesAccount parameters =
        new CognitiveServicesAccount(null, null, kind, location, resource_name,
        new CognitiveServicesAccountProperties(), new Sku(account_tier));
    var result = cog_svc_client.Accounts.Create(resource_group_name, account_tier, parameters);
}
```

You need to deploy an Azure resource to the East US Azure region. The resource will be used to perform sentiment analysis. How should you call the method?

A. create_resource("res1", "ContentModerator", "S0", "eastus")

B. create_resource("res1", "TextAnalytics", "S0", "eastus")

C. create_resource("res1", "ContentModerator", "Standard", "East US")

D. create_resource("res1", "TextAnalytics", "Standard", "East US")

Correct Answer: B

To perform sentiment analysis, we specify TextAnalytics, not ContentModerator.

Possible SKU names include: \|F0\|, \|F1\|, \|S0\|, \|S1\|, \|S2\|, \|S3\|, \|S4\|, \|S5\|, \|S6\|, \|S7\|, \|S8\|

Possible location names include: westus, eastus

Reference:

<https://docs.microsoft.com/en-us/powershell/module/az.cognitiveservices/new-azcognitiveservicesaccount>

QUESTION 4

You have an existing Azure Cognitive Search service. You have an Azure Blob storage account that contains millions of scanned documents stored as images and PDFs.

You need to make the scanned documents available to search as quickly as possible. What should you do?



A. Split the data into multiple blob containers. Create a Cognitive Search service for each container. Within each indexer definition, schedule the same runtime execution pattern.

B. Split the data into multiple blob containers. Create an indexer for each container.

Increase the search units. Within each indexer definition, schedule a sequential execution pattern.

C. Create a Cognitive Search service for each type of document.

D. Split the data into multiple virtual folders. Create an indexer for each folder. Increase the search units. Within each indexer definition, schedule the same runtime execution pattern.

Correct Answer: D

Reference: <https://docs.microsoft.com/en-us/azure/search/search-howto-indexing-azure-blob-storage>

QUESTION 5

What are two uses of data visualization? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A. Communicate the significance of data.

B. Represent trends and patterns over time.

C. Implement machine learning to predict future values.

D. Enforce business logic across reports.

Correct Answer: AB

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