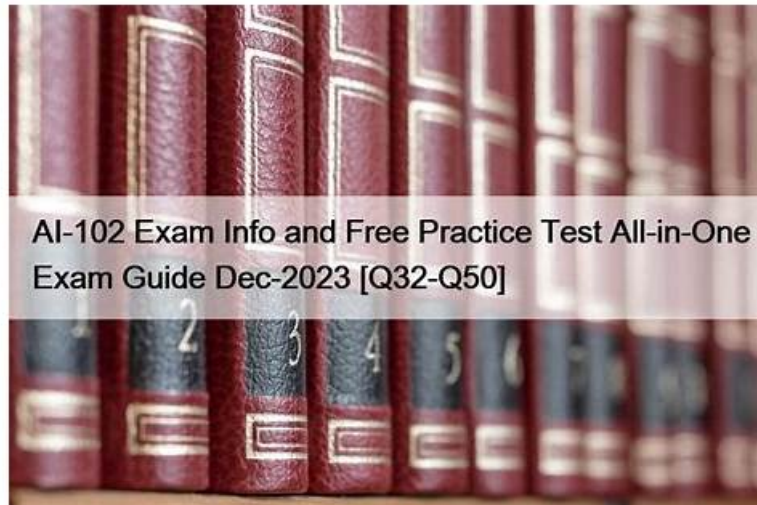


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Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q210-Q215):

NEW QUESTION # 210

Match the Azure services to the appropriate locations in the architecture.

To answer, drag the appropriate service from the column on the left to its location on the right. Each service may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

□

Answer:

Explanation:

□

Explanation:

* Ingest # Azure Data Factory

* Store # Azure Data Lake Storage (already provided in the diagram)

* Preprocess & model # Azure Synapse Analytics

* OLAP # Azure Analysis Services (already provided in the diagram)

* Reporting # Microsoft Power BI (already provided in the diagram)

We're building a modern data analytics pipeline with Azure services. Let's analyze each stage:

* Ingest (Logs, structured data, etc. # Service)

* The ingestion service must orchestrate and move data from multiple sources into the storage layer.

* Azure Data Factory is designed for data ingestion and ETL pipelines.

* Correct match: Azure Data Factory.

* Store (Azure Data Lake Storage)

* Already provided.

* Serves as the central repository for both structured and unstructured data.

* Preprocess & model (Service)

* At this stage, raw data from Data Lake must be cleaned, transformed, and prepared for analytics.

* Azure Synapse Analytics integrates with Data Lake and supports big data processing, advanced analytics, and modeling.

* Correct match: Azure Synapse Analytics.

* OLAP (Azure Analysis Services)

* Already provided.

* Provides semantic modeling, aggregations, and OLAP cubes for analysis.

* Reporting (Microsoft Power BI)

* Already provided.

* Visualizes insights for business users.

* Azure Cognitive Search: Used for indexing and searching unstructured data (e.g., documents, knowledge mining), not for ingestion or preprocessing.

* Azure Data Catalog: Used for metadata management and data discovery, not for ingestion, preprocessing, or modeling in this architecture.

Final Answer Mapping:

* Ingest # Azure Data Factory

* Store # Azure Data Lake Storage

* Preprocess & model # Azure Synapse Analytics

* OLAP # Azure Analysis Services

* Reporting # Microsoft Power BI

* Azure Data Factory - Data Integration Service

* Azure Data Lake Storage - Scalable data lake

* Azure Synapse Analytics overview

* Azure Analysis Services overview

* Power BI overview

NEW QUESTION # 211

You are developing a call to the Face API. The call must find similar faces from an existing list named `employeefaces`. The `employeefaces` list contains 60,000 images.

How should you complete the body of the HTTP request? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

You are calling the Face API to find similar faces from an existing list called `employeefaces`.

Key facts from the scenario:

* The list contains 60,000 images.

* In Face API:

* `faceListId` # limited to 1,000 faces.

* `largeFaceListId` # designed for very large lists, up to 1,000,000 faces.

Since `employeefaces` has 60,000 images, you must use `LargeFaceListId`, not `faceListId`.

* `"faceId": "18c51a87-3a69-47a8-aedc-a54745f708a1"`

- * This is the face to search for.
- * "largeFaceListId": "employeefaces "
- * Must use LargeFaceListId because the list has 60,000 images.
- * "maxNumOfCandidatesReturned": 1
- * Limits the number of matches returned.
- * "mode": "matchFace "
- * Two options exist:
- * "matchFace" # returns the most similar individual faces.
- * "matchPerson" # groups faces by person.
- * Since the requirement is find similar faces, use "matchFace ".

Parameters in the Request Body

Completed Answer {

"faceId": "18c51a87-3a69-47a8-aedc-a54745f708a1 ",

"largeFaceListId": "employeefaces ",

"maxNumOfCandidatesReturned": 1 ,

"mode": "matchFace "

}

* LargeFaceListId # "employeefaces "

* matchFace # "mode "

Correct Values to Drag and Drop

Final Answer:

* First blank: LargeFaceListId

* Second blank: matchFace

* Face API - Find Similar

* Face API - Large Face List operations

Microsoft References

NEW QUESTION # 212

You are developing a streaming Speech to Text solution that will use the Speech SDK and MP3 encoding.

You need to develop a method to convert speech to text for streaming MP3 data.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

Scenario Recap

You are building a streaming Speech-to-Text solution using the Speech SDK.

Input audio format: MP3 encoding

You must configure the audio stream format and the recognizer properly.

Code Analysis

Audio Format

For MP3 streams, the correct method is:

AudioStreamFormat.GetCompressedFormat(AudioStreamContainerFormat.MP3)

This creates an audio format object for compressed MP3 input.

Recognizer

Since the task is speech-to-text transcription, you need the SpeechRecognizer class.

Other options like KeywordRecognizer, SpeakerRecognizer, or SpeechSynthesizer are not appropriate (they handle keyword spotting, speaker identification, or text-to-speech).

Completed Code Snippet

```
var audioFormat = AudioStreamFormat.GetCompressedFormat(AudioStreamContainerFormat.MP3); var speechConfig =
SpeechConfig.FromSubscription( "18c51a87-3a69-47a8-aedc-a54745f708a1 ", "westus
");
```

```
var audioConfig = AudioConfig.FromStreamInput(pushStream, audioFormat); using ( var recognizer = new
SpeechRecognizer(speechConfig, audioConfig))
```

```
{
```

```
var result = await recognizer.RecognizeOnceAsync();
```

```
var text = result.Text;
```

```
}  
Final Answer (Answer Area Selections)  
AudioFormat: AudioStreamFormat.GetCompressedFormat  
Recognizer: SpeechRecognizer  
Microsoft References  
Speech SDK - AudioStreamFormat  
SpeechRecognizer class
```

NEW QUESTION # 213

Hotspot Question

You are building an app that will translate speech by using the Azure AI Language service.

You need configure the app to translate the speech from English to Italian.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

☐

Answer:

Explanation:

☐

Explanation:

Box 1: speech_recognition_language

1. Instantiate SpeechTranslationConfig:

Create an instance of the SpeechTranslationConfig class, providing your Azure AI Speech resource key and region.

2. Set the source language:

Use the speech_recognition_language property to set the language of the speech you want to translate.

3. Add target languages:

Call add_target_language() one or more times, passing the language code (e.g., "fr", "es") for each target language.

4. Use the configuration:

Pass the SpeechTranslationConfig object to a TranslationRecognizer or similar object to perform the actual translation.

Box 2: add_target_language

The add_target_language() method in the Azure AI Language service's SpeechTranslationConfig class is used to specify target languages for speech translation. It allows you to add one or more languages to the list of languages that the service will translate the speech into. For example, you can use it to configure the translation to French, Spanish, and Hindi.

Reference:

<https://learn.microsoft.com/en-us/azure/ai-services/speech-service/how-to-translate-speech>

NEW QUESTION # 214

You plan to use containerized versions of the Anomaly Detector API on local devices for testing and in on-premises datacenters.

You need to ensure that the containerized deployments meet the following requirements:

Prevent billing and API information from being stored in the command-line histories of the devices that run the container.

Control access to the container images by using Azure role-based access control (Azure RBAC).

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order. (Choose four.) NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

☐

Answer:

Explanation:

☐

Explanation

Step 1: Pull the Anomaly Detector container image.

Step 2: Create a custom Dockerfile

Step 3: Build the image

Step 4: Push the image to an Azure container registry.

<https://docs.microsoft.com/en-us/azure/cognitive-services/containers/container-reuse-recipe>

NEW QUESTION # 215

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