

# Microsoft

## Exam Questions AI-102

Designing and Implementing an Azure AI Solution



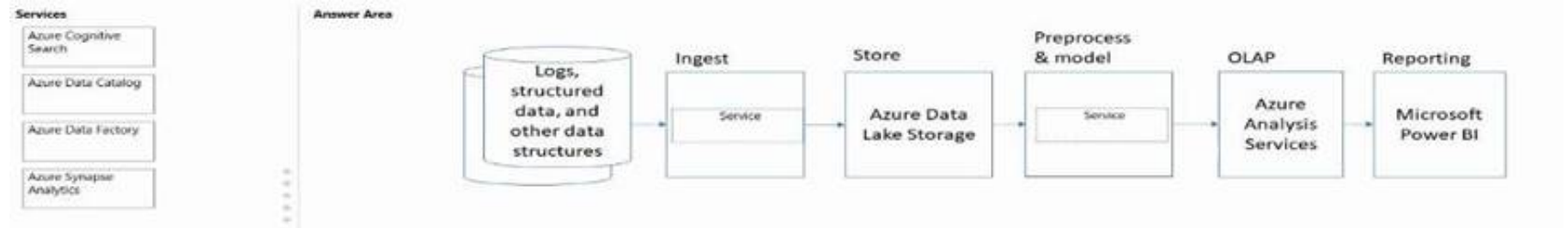
### NEW QUESTION 1

DRAG DROP - (Topic 3)

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.

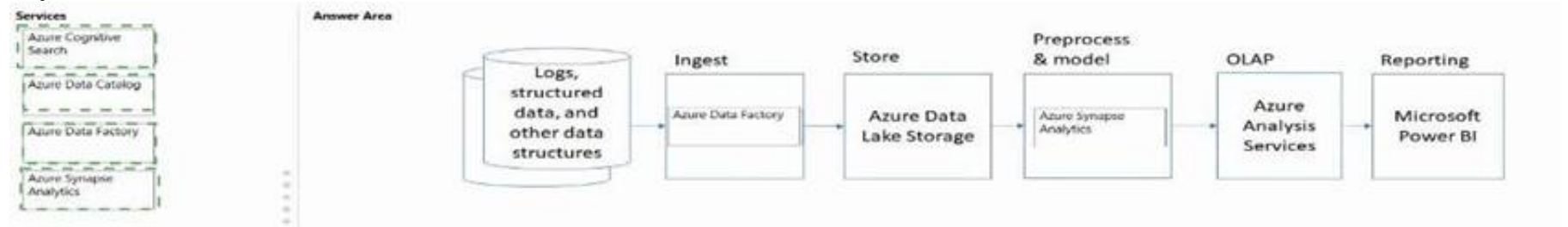
NOTE: Each correct match is worth one point.



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**



### NEW QUESTION 2

- (Topic 3)

You have an Azure IoT hub that receives series data from machinery. You need to build an app that will perform the following actions:

- Perform anomaly detection across multiple correlated sensors
- Identify the root cause of process stops.
- Send incident alerts

The solution must minimize development time. Which Azure service should you use?

- A. Azure Metrics Advisor
- B. Form Recognizer
- C. Azure Machine teaming
- D. Anomaly Detector

**Answer: D**

### NEW QUESTION 3

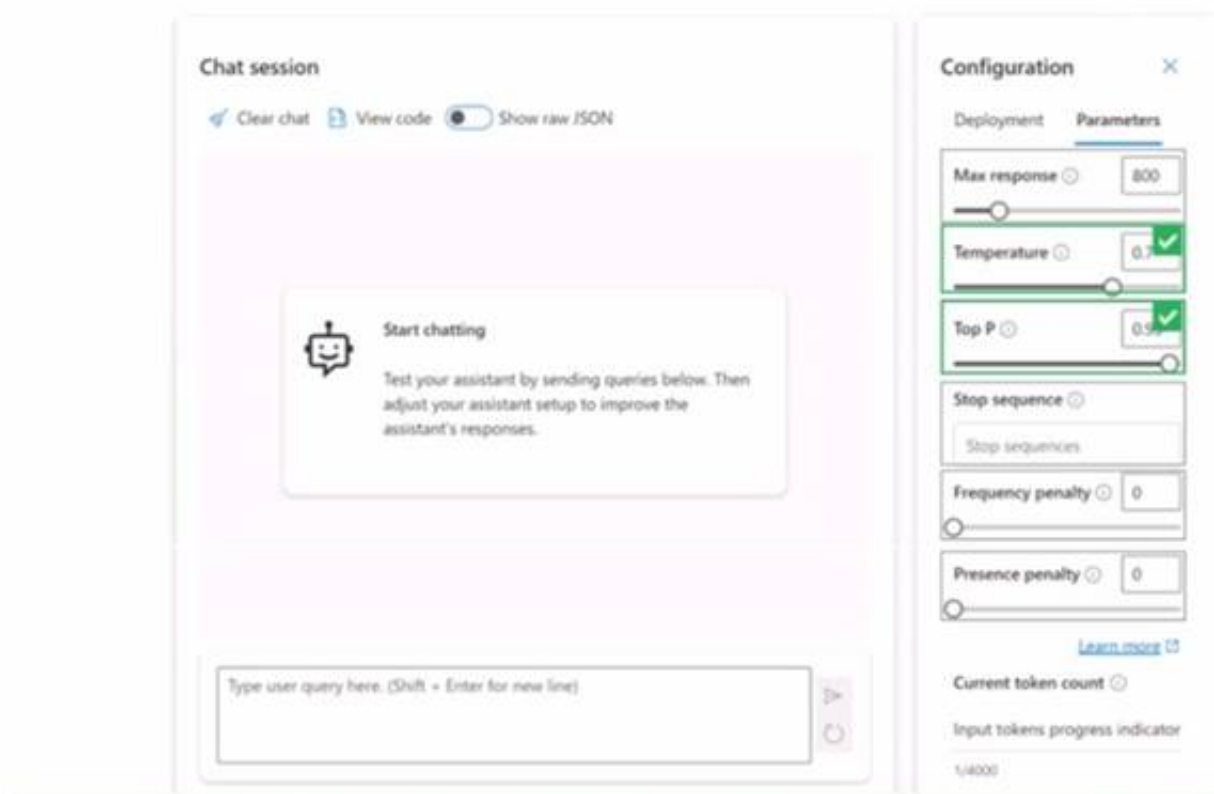
HOTSPOT - (Topic 3)

You build a chatbot by using Azure OpenAI Studio.

You need to ensure that the responses are more deterministic and less creative. Which two parameters should you configure? To answer, select the appropriate parameters in the answer area.

NOTE: Each correct answer is worth one point.

**Answer Area**



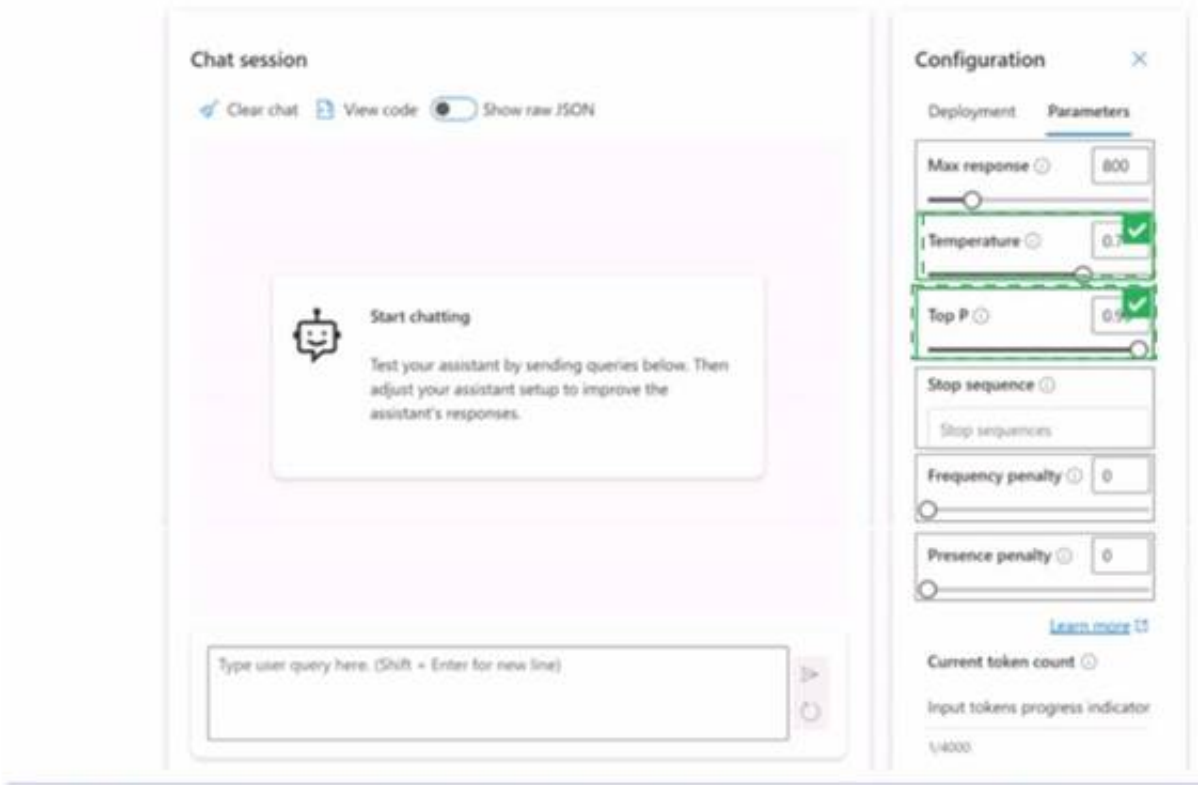
- A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area



**NEW QUESTION 4**

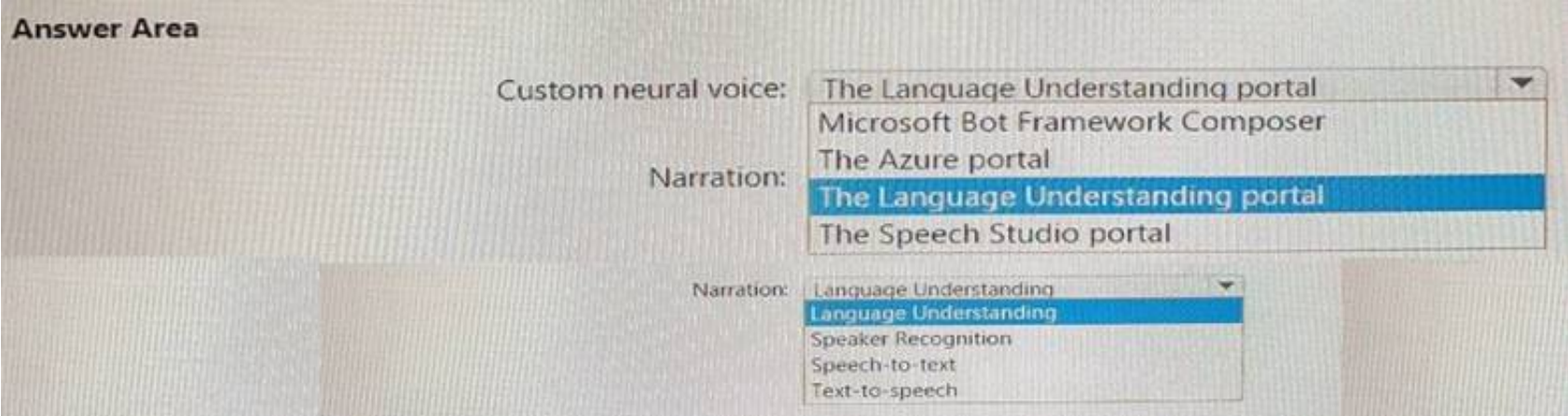
HOTSPOT - (Topic 3)

You are building content for a video training solution.

You need to create narration to accompany the video content. The solution must use Custom Neural Voice.

What should you use to create a custom neural voice, and which service should you use to generate the narration? To answer, select the appropriate options in the answer area.

NOTE: Each correct answer is worth one point.

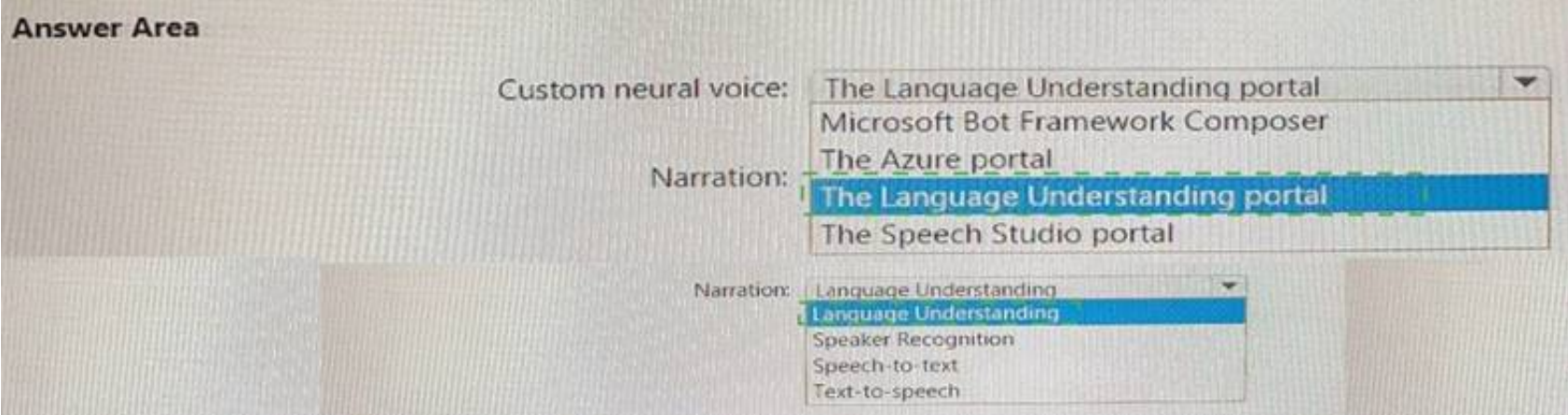


A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 5**

- (Topic 3)

You are building a chatbot.

You need to configure the bot to guide users through a product setup process. Which type of dialog should you use?

A. component

B. waterfall



- C. adaptive
- D. action

**Answer:** B

**NEW QUESTION 6**

DRAG DROP - (Topic 3)

You have a web app that uses Azure Cognitive Search.

When reviewing billing for the app, you discover much higher than expected charges. You suspect that the query key is compromised.

You need to prevent unauthorized access to the search endpoint and ensure that users only have read only access to the documents collection. The solution must minimize app downtime.

Which three 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.

**Actions**

Add a new query key.

Regenerate the secondary admin key.

Change the app to use the secondary admin key.

Change the app to use the new key.

Regenerate the primary admin key.

Delete the compromised key.

**Answer Area**

⏪

⏩

⏴

⏵

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Actions**

Add a new query key.

Regenerate the secondary admin key.

Change the app to use the secondary admin key.

Change the app to use the new key.

Regenerate the primary admin key.

Delete the compromised key.

**Answer Area**

⏪

⏩

⏴

⏵

Add a new query key.

Change the app to use the new key.

Delete the compromised key.

**NEW QUESTION 7**

- (Topic 3)

You have a Video Indexer service that is used to provide a search interface over company videos on your company's website.

You need to be able to search for videos based on who is present in the video. What should you do?

- A. Create a person model and associate the model to the videos.
- B. Create person objects and provide face images for each object.
- C. Invite the entire staff of the company to Video Indexer.
- D. Edit the faces in the videos.
- E. Upload names to a language model.

**Answer:** A

**Explanation:**

Video Indexer supports multiple Person models per account. Once a model is created, you can use it by providing the model ID of a specific Person model when uploading/indexing or reindexing a video. Training a new face for a video updates the specific custom model that the video was associated with.

Note: Video Indexer supports face detection and celebrity recognition for video content. The celebrity recognition feature covers about one million faces based on commonly requested data source such as IMDB, Wikipedia, and top LinkedIn influencers. Faces that aren't recognized by the celebrity recognition feature are detected but left unnamed. Once you label a face with a name, the face and name get added to your account's Person model. Video Indexer will then recognize this face in your future videos and past videos.

Reference:

<https://docs.microsoft.com/en-us/azure/media-services/video-indexer/customize-person-model-with-api>

**NEW QUESTION 8**

- (Topic 3)  
You have an Azure subscription. The subscription contains an Azure OpenAI resource that hosts a GPT-3.5 Turbo model named Model1.  
You configure Model1 to use the following system message: "You are an AI assistant that helps people solve mathematical puzzles. Explain your answers as if the request is by a 4- year-old."  
Which type of prompt engineering technique is this an example of?

- A. few-shot learning
- B. affordance
- C. chain of thought
- D. priming

**Answer:** D

**NEW QUESTION 9**

- (Topic 3)  
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.

**Answer:** AB

**NEW QUESTION 10**

HOTSPOT - (Topic 3)  
You are developing an application that includes language translation.  
The application will translate text retrieved by using a function named `getTextToBeTranslated`. The text can be in one of many languages. The content of the text must remain within the Americas Azure geography.  
You need to develop code to translate the text to a single language.  
How should you complete the code? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

```

* * *
var endpoint = 

&quot;https://api.cognitive.microsofttranslator.com/translate&quot;;
    &quot;https://api.cognitive.microsofttranslator.com/transliterate&quot;;
    &quot;https://api-apc.cognitive.microsofttranslator.com/detect&quot;;
    &quot;https://api-nam.cognitive.microsofttranslator.com/detect&quot;;
    &quot;https://api-nam.cognitive.microsofttranslator.com/translate&quot;;


;

var apiKey = "FF956C68883B21B38691ABD200A4C606";
var text = getTextToBeTranslated();
var body = '[{"Text":"' + text + '"}]';
var client = new HttpClient();
client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", apiKey);



var uri = endpoint + &quot;?from=en&quot;;
    var uri = endpoint + &quot;?suggestedFrom=en&quot;;
    var uri = endpoint + &quot;?to=en&quot;;



HttpResponseMessage response;
var content = new StringContent(body, Encoding.UTF8, "application/json");
var response = await client.PutAsync(uri, content);
* * *
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



```

. . .
var endpoint =
    &quot;https://api.cognitive.microsofttranslator.com/translate&quot;;
    &quot;https://api.cognitive.microsofttranslator.com/transliterate&quot;;
    &quot;https://api-apc.cognitive.microsofttranslator.com/detect&quot;;
    &quot;https://api-nam.cognitive.microsofttranslator.com/detect&quot;;
    &quot;https://api-nam.cognitive.microsofttranslator.com/translate&quot;;

var apiKey = "FF956C68B83B21B38691ABD200A4C606";
var text = getTextToBeTranslated();
var body = '[{"Text":"' + text + '"}]';
var client = new HttpClient();
client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", apiKey);

var uri = endpoint + &quot;?from=en&quot;;
var uri = endpoint + &quot;?suggestedFrom=en&quot;;
var uri = endpoint + &quot;?to=en&quot;;

HttpResponseMessage response;
var content = new StringContent(body, Encoding.UTF8, "application/json");
var response = await client.PutAsync(uri, content);
. . .

```

**NEW QUESTION 10**

- (Topic 3)  
 You have an Azure subscription that contains an Anomaly Detector resource. You deploy a Docker host server named Server 1 to the on-premises network. You need to host an instance of the Anomaly Detector service on Server 1. Which parameter should you include in the docker run command?

- A. Fluentd
- B. Billing
- C. Http Proxy
- D. Mounts

**Answer: B**

**NEW QUESTION 13**

DRAG DROP - (Topic 3)  
 You have a collection of Microsoft Word documents and PowerPoint presentations in German.  
 You need to create a solution to translate the file to French. The solution must meet the following requirements:  
 \* Preserve the original formatting of the files.  
 \* Support the use of s custom glossary.  
 You create a blob container for German files and a blob container for French files. You upload the original files to the container for German files.  
 Which three actions should you perform in sequence actions from the list of actions to the answer area and arrange them in the correct order.

**Actions**

Perform an asynchronous translation by using the list of files to be translated.
Upload a glossary file to the container for German files.
Upload a glossary file to the container for French files.
Generate a list of files to be translated.
Define a document translation specification that has a French target.
Perform an asynchronous translation by using the document translation specification.

>
<

**Answer Area**

>
<

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Actions**

Perform an asynchronous translation by using the list of files to be translated.
Upload a glossary file to the container for German files.
Upload a glossary file to the container for French files.
Generate a list of files to be translated.
Define a document translation specification that has a French target.
Perform an asynchronous translation by using the document translation specification.

>
<

**Answer Area**

Generate a list of files to be translated.
Define a document translation specification that has a French target.
Perform an asynchronous translation by using the document translation specification.

**NEW QUESTION 15**

- (Topic 3)  
 You have a factory that produces food products.  
 You need to build a monitoring solution for staff compliance with personal protective equipment (PPE) requirements. The solution must meet the following requirements:

- identify staff who have removed masks or safety glasses.
- Perform a compliance check every 15 minutes.
- Minimize development effort.
- Minimize costs.

Which service should you use?

- A. Face
- B. Computer Vision
- C. Azure Video Analyzer for Media (formerly Video indexer)

**Answer:** A

**NEW QUESTION 20**

HOTSPOT - (Topic 3)  
 You plan to provision Azure Cognitive Services resources by using the following method.

```
{
  CognitiveServicesAccount parameters =
    new CognitiveServicesAccount(null, null, kind, location, name,
      new CognitiveServicesAccountProperties(), new Sku(tier));
  result = client.Accounts.Create(resource_group_name, tier, parameters);
}
```

You need to create a Standard tier resource that will convert scanned receipts into text. How should you call the method? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

provision\_resource("res1",

FormRecognizer

ComputerVision

CustomVision.Prediction

CustomVision.Training

FormRecognizer

"eastus", "S1")

"eastus", "S1")

"useast", "S1")

"S0", "eastus")

"S0", "useast")

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

provision\_resource("res1",

FormRecognizer

ComputerVision

CustomVision.Prediction

CustomVision.Training

FormRecognizer

"eastus", "S1")

"eastus", "S1")

"useast", "S1")

"S0", "eastus")

"S0", "useast")

**NEW QUESTION 25**

- (Topic 3)  
 You are building an AI solution that will use Sentiment Analysis results from surveys to calculate bonuses for customer service staff. You need to ensure that the solution meets the Microsoft responsible AI principles. What should you do?

- A. Add a human review and approval step before making decisions that affect the staffs financial situation
- B. Include the Sentiment Analysis results when surveys return a low confidence score.
- C. Use all the surveys, including surveys by customers who requested that their account be deleted and their data be removed.
- D. Publish the raw survey data to a central location and provide the staff with access to the location.

**Answer:** A

**NEW QUESTION 29**

DRAG DROP - (Topic 3)  
 You are developing an application that will recognize faults in components produced on a factory production line. The components are specific to your business. You need to use the Custom Vision API to help detect common faults.  
 Which three 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.

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Actions

Train the classifier model.

Upload and tag images.

Initialize the training dataset.

Train the object detection model.

Create a project.

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Step 1: Create a project Create a new project.  
Step 2: Upload and tag the images  
Choose training images. Then upload and tag the images.  
Step 3: Train the classifier model. Train the classifier

NEW QUESTION 33

- (Topic 3)  
You are developing a new sales system that will process the video and text from a public- facing website.  
You plan to notify users that their data has been processed by the sales system. Which responsible AI principle does this help meet?

- A. transparency
- B. fairness
- C. inclusiveness
- D. reliability and safety

Answer: D

**Explanation:**  
"When an AI application relies on personal data, such as a facial recognition system that takes images of people to recognize them; you should make it clear to the user how their data is used and retained, and who has access to it." from: <https://docs.microsoft.com/en-us/learn/paths/prepare-for-ai-engineering/>

NEW QUESTION 36

HOTSPOT - (Topic 3)  
You are developing a text processing solution. You have the function shown below.

Answer Area

Statements

The output will include the following words: our and included.

The output will include the following words: Paris, Eiffel, and Tower.

The function will output all the key phrases from the input string to the console.

Yes

No

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements

The output will include the following words: our and included.

The output will include the following words: Paris, Eiffel, and Tower.

The function will output all the key phrases from the input string to the console.

Yes

No

NEW QUESTION 40

HOTSPOT - (Topic 3)  
You have an Azure subscription that has the following configurations:  
• Subscription ID: 8d3591aa-96b8-4737-ad09-00f9b1ed35ad



• Tenant ID: 3edfe572-cb54-3ced-ae12-c5c177f39a12

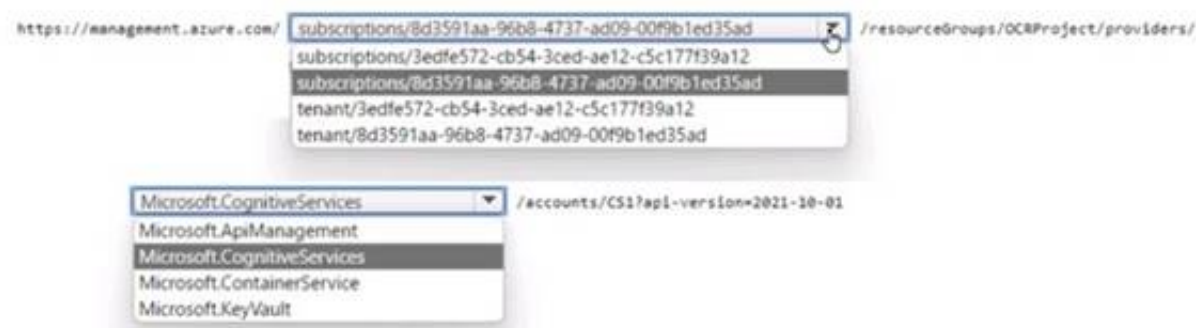
You plan to create a resource that will perform sentiment analysis and optical character recognition (OCR).

You need to use an HTTP request to create the resource in the subscription. The solution must use a single key and endpoint.

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

NOTE: Each correct selection is worth one point.

Answer Area



The screenshot shows the Azure portal interface for creating a resource. The URL bar displays `https://management.azure.com/`. The resource path is `/subscriptions/8d3591aa-96b8-4737-ad09-00f9b1ed35ad/resourceGroups/OCRProject/providers/`. The subscription dropdown menu is open, showing the following options: `subscriptions/8d3591aa-96b8-4737-ad09-00f9b1ed35ad`, `subscriptions/3edfe572-cb54-3ced-ae12-c5c177f39a12`, `subscriptions/8d3591aa-96b8-4737-ad09-00f9b1ed35ad`, `tenant/3edfe572-cb54-3ced-ae12-c5c177f39a12`, and `tenant/8d3591aa-96b8-4737-ad09-00f9b1ed35ad`. The provider dropdown menu is also open, showing the following options: `Microsoft.CognitiveServices`, `Microsoft.ApiManagement`, `Microsoft.CognitiveServices`, `Microsoft.ContainerService`, and `Microsoft.KeyVault`.

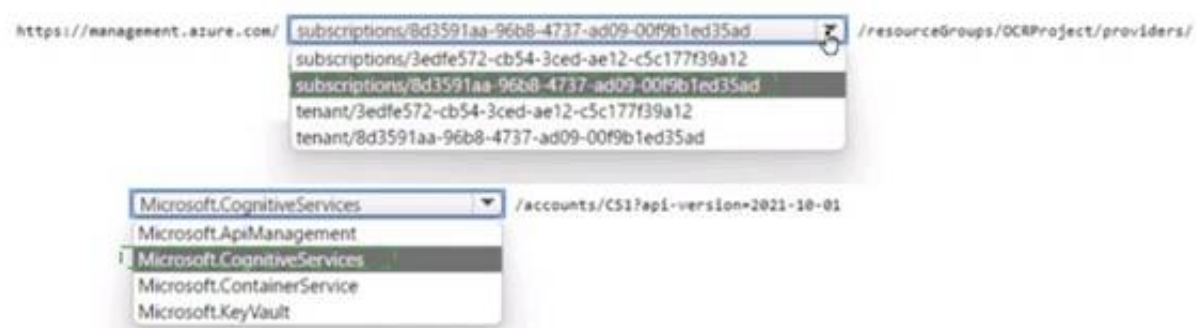
A. Mastered

B. Not Mastered

Answer: A

Explanation:

Answer Area



The screenshot shows the Azure portal interface for creating a resource. The URL bar displays `https://management.azure.com/`. The resource path is `/subscriptions/8d3591aa-96b8-4737-ad09-00f9b1ed35ad/resourceGroups/OCRProject/providers/`. The subscription dropdown menu is open, showing the following options: `subscriptions/8d3591aa-96b8-4737-ad09-00f9b1ed35ad`, `subscriptions/3edfe572-cb54-3ced-ae12-c5c177f39a12`, `subscriptions/8d3591aa-96b8-4737-ad09-00f9b1ed35ad`, `tenant/3edfe572-cb54-3ced-ae12-c5c177f39a12`, and `tenant/8d3591aa-96b8-4737-ad09-00f9b1ed35ad`. The provider dropdown menu is also open, showing the following options: `Microsoft.CognitiveServices`, `Microsoft.ApiManagement`, `Microsoft.CognitiveServices`, `Microsoft.ContainerService`, and `Microsoft.KeyVault`.

### NEW QUESTION 43

HOTSPOT - (Topic 3)

You are developing a service that records lectures given in English (United Kingdom).

You have a method named `AppendToTranscriptFile` that takes translated text and a language identifier.

You need to develop code that will provide transcripts of the lectures to attendees in their respective language. The supported languages are English, French, Spanish, and German.

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 Area

```
static async Task TranslateSpeechAsync()
{
    var config = SpeechTranslationConfig.FromSubscription("69cad5cc-0ab3-4704-bdff-afbf4aa07d85", "uksouth");

    var lang = new List<string>
    {
        "en-GB",
        "fr", "de", "es",
        "French", "Spanish", "German"
    };

    config.SpeechRecognitionLanguage = "en-GB";
    lang.ForEach(config.AddTargetLanguage);

    using var audioConfig = AudioConfig.FromDefaultMicrophoneInput();
    using var recognizer = new
    {
        IntentRecognizer,
        SpeakerRecognizer,
        SpeechSynthesizer,
        TranslationRecognizer
    } (config, audioConfig);

    var result = await recognizer.RecognizeOnceAsync();
    if (result.Reason == ResultReason.TranslatedSpeech)
```

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: {"fr", "de", "es"}

A common task of speech translation is to specify target translation languages, at least one is required but multiples are supported. The following code snippet sets both French and German as translation language targets.

```
static async Task TranslateSpeechAsync()
{
    var translationConfig =
    SpeechTranslationConfig.FromSubscription(SPEECH SUBSCRIPTION KEY, SPEECH SERVICE REGION);
    translationConfig.SpeechRecognitionLanguage = "it-IT";
    // Translate to languages. See, https://aka.ms/speech/sttt-languages translationConfig.AddTargetLanguage("fr"); translationConfig.AddTargetLanguage("de");
}
```

Box 2: TranslationRecognizer

After you've created a SpeechTranslationConfig, the next step is to initialize a TranslationRecognizer.

Example code:

```
static async Task TranslateSpeechAsync()
{
    var translationConfig =
        SpeechTranslationConfig.FromSubscription(SPEECH SUBSCRIPTION KEY, SPEECH SERVICE REGION);
    var fromLanguage = "en-US";
    var toLanguages = new List<string> { "it", "fr", "de" }; translationConfig.SpeechRecognitionLanguage = fromLanguage;
    toLanguages.ForEach(translationConfig.AddTargetLanguage);
    using var recognizer = new TranslationRecognizer(translationConfig);
}
```

#### NEW QUESTION 44

- (Topic 3)

You have an Azure subscription that contains an AI enrichment pipeline in Azure Cognitive Search and an Azure Storage account that has 10 G8 of scanned documents and images. You need to index the documents and images in the storage account. The solution must minimize how long it takes to build the index. What should you do?

- A. From the Azure portal, configure parallel indexing.
- B. Create a text-based indexer by using the REST API.
- C. From the Azure portal, configure scheduled indexing.
- D. Configure field mappings by using the REST API.

**Answer:** A

#### NEW QUESTION 45

- (Topic 3)

You manage an application that stores data in a shared folder on a Windows server. You need to move the shared folder to Azure Storage. Which type of Azure Storage should you use?

- A. table
- B. queue
- C. file
- D. blob

**Answer:** C

#### NEW QUESTION 50

- (Topic 3)

What should you use to build a Microsoft Power Bi paginated report?

- A. Power BI Report Builder
- B. Charciculator
- C. Power BI Desktop
- D. the Power BI service

**Answer:** A

#### NEW QUESTION 53

- (Topic 3)

You have receipts that are accessible from a URL.

You need to extract data from the receipts by using Form Recognizer and the SDK. The solution must use a prebuilt model.

Which client and method should you use?

- A. the FormRecognizerClienc client and the ScarcRecognizeConcencFromUri method
- B. the FormTrainingClienc client and the ScarcRecognizeContentFromUri method
- C. the FormRecognizerClienc client and the ScarcRecognizeReceipcsFromUri method
- D. the FormTrainingClient client and the ScarcRecognizeReceipcsFromUri method

**Answer:** D

#### Explanation:

To analyze receipts from a URL, use the StartRecognizeReceiptsFromUri method Example code:

```
private static async Task AnalyzeReceipt( FormRecognizerClient recognizerClient, string receiptUri)
{
    RecognizedFormCollection receipts = await recognizerClient.StartRecognizeReceiptsFromUri(new Uri(receiptUri)).WaitForCompletionAsync();
}
```

Reference:

<https://docs.microsoft.com/en-us/azure/applied-ai-services/form-recognizer/quickstarts/client-library>

#### NEW QUESTION 58

- (Topic 3)

You plan create an index for an Azure Cognitive Search service by using the Azure portal. The Cognitive Search service will connect to an Azure SQL database The Azure SQL database contains a table named UserMessages. Each row m User

Messages has a field named MessageCopy that contains the text of social media messages sent by a user

Users win perform full text searches against the MessageCopy field, and the values of the field will be shown to the users-

You need to configure the properties of the index for the MessageCopy field to support the solution.

Winch attributes should you enable for the field?

- A. Searchable arc Retrievable
- B. Sortable and Retrievable
- C. Searchable arc Facetable
- D. Filterable and Retrievable

Answer: A

NEW QUESTION 59

- (Topic 3)

A customer uses Azure Cognitive Search.

The customer plans to enable a server-side encryption and use customer-managed keys (CMK) stored in Azure.

What are three implications of the planned change? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. The index size will increase.
- B. Query times will increase.
- C. A self-signed X.509 certificate is required.
- D. The index size will decrease.
- E. Query times will decrease.
- F. Azure Key Vault is required.

Answer: ABF

Explanation:

"Customer-managed keys require an additional billable service, Azure Key Vault, which can be in a different region, but under the same subscription, as Azure Cognitive Search. Enabling CMK encryption will increase index size and degrade query performance."

same document also lists Azure Key Vault as a requirement: <https://docs.microsoft.com/en-us/azure/search/search-security-overview#data-protection>

NEW QUESTION 62

HOTSPOT - (Topic 3)

You run the following command.

```
docker run --rm -it -p 5000:5000 --memory 10g --cpus 2 \
mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment\
Eula=accept \
Billing={ENDPOINT_URI} \
ApiKey={API_KEY}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Statements	Yes	No
Going to <code>http://localhost:5000/status</code> will query the Azure endpoint to verify whether the API key used to start the container is valid.	<input type="radio"/>	<input type="radio"/>
The container logging provider will write log data.	<input type="radio"/>	<input type="radio"/>
Going to <code>http://localhost:5000/swagger</code> will provide the details to access the documentation for the available endpoints.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

`http://localhost:5000/status` : Also requested with GET, this verifies if the api-key used to start the container is valid without causing an endpoint query.

Box 2: Yes

The command saves container and LUIS logs to output mount at `C:\output`, located on container host

Box 3: Yes

`http://localhost:5000/swagger` : The container provides a full set of documentation for the endpoints and a Try it out feature. With this feature, you can enter your settings into a web-based HTML form and make the query without having to write any code. After the query returns, an example CURL command is provided to demonstrate the HTTP headers and body format that's required.

NEW QUESTION 66

- (Topic 3)

You have a text-based chatbot.

You need to enable content moderation by using the Text Moderation API of Content Moderator. Which two service responses should you use? Each correct answer presents part of the solution NOTE: Each correct selection is worth one point.

- A. the adult classification score
- B. optical character recognition (OCR)
- C. personal data
- D. text classification



E. the racy classification score

**Answer:** AD

#### NEW QUESTION 70

- (Topic 3)

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 in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Cognitive Search service.

During the past 12 months, query volume steadily increased.

You discover that some search query requests to the Cognitive Search service are being throttled.

You need to reduce the likelihood that search query requests are throttled. Solution: You add indexes.

Does this meet the goal?

A. Yes

B. No

**Answer:** B

#### Explanation:

Instead, you could migrate to a Cognitive Search service that uses a higher tier.

Note: A simple fix to most throttling issues is to throw more resources at the search service (typically replicas for query-based throttling, or partitions for indexing-based throttling). However, increasing replicas or partitions adds cost, which is why it is important to know the reason why throttling is occurring at all.

Reference:

<https://docs.microsoft.com/en-us/azure/search/search-performance-analysis>

#### NEW QUESTION 72

DRAG DROP - (Topic 3)

You are developing a webpage that will use the Video Indexer service to display videos of internal company meetings.

You embed the Player widget and the Cognitive Insights widget into the page. You need to configure the widgets to meet the following requirements:

? Ensure that users can search for keywords.

? Display the names and faces of people in the video.

? Show captions in the video in English (United States).

How should you complete the URL for each widget? 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.

Values	Answer Area
en-US	
false	
people,keywords	
people,search	
search	
true	

Cognitive Insights Widget	
https://www.videoindexer.ai/embed/insights/<accountId>/<videoId>/?widgets=	Value
controls=	Value

Player Widget	
https://www.videoindexer.ai/embed/player/<accountId>/<videoId>/? showcaptions=	Value
captions=	Value

A. Mastered

B. Not Mastered

**Answer:** A

#### Explanation:

Graphical user interface, text, application, Word, email Description automatically generated

#### NEW QUESTION 77

DRAG DROP - (Topic 3)

You are building a Language Understanding model for purchasing tickets.

You have the following utterance for an intent named PurchaseAndSendTickets. Purchase [2 audit business] tickets to [Paris] [next Monday] and send tickets to [email@domain.com]

You need to select the entity types. The solution must use built-in entity types to minimize training data whenever possible.

Which entity type should you use for each label? To answer, drag the appropriate entity types to the correct labels. Each entity type 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.

## Entity Types

## Answer Area

Email		
List	Paris:	
Regex	email@domain.com:	
GeographyV2	2 audit business:	
Machine learned		

- A. Mastered  
 B. Not Mastered

**Answer:** A

### Explanation:

Box 1: GeographyV2

The prebuilt geographyV2 entity detects places. Because this entity is already trained, you do not need to add example utterances containing GeographyV2 to the application intents.

Box 2: Email

Email prebuilt entity for a LUIS app: Email extraction includes the entire email address from an utterance. Because this entity is already trained, you do not need to add example utterances containing email to the application intents.

Box 3: Machine learned

The machine-learning entity is the preferred entity for building LUIS applications.

## NEW QUESTION 79

- (Topic 3)

You need to measure the public perception of your brand on social media messages. Which Azure Cognitive Services service should you use?

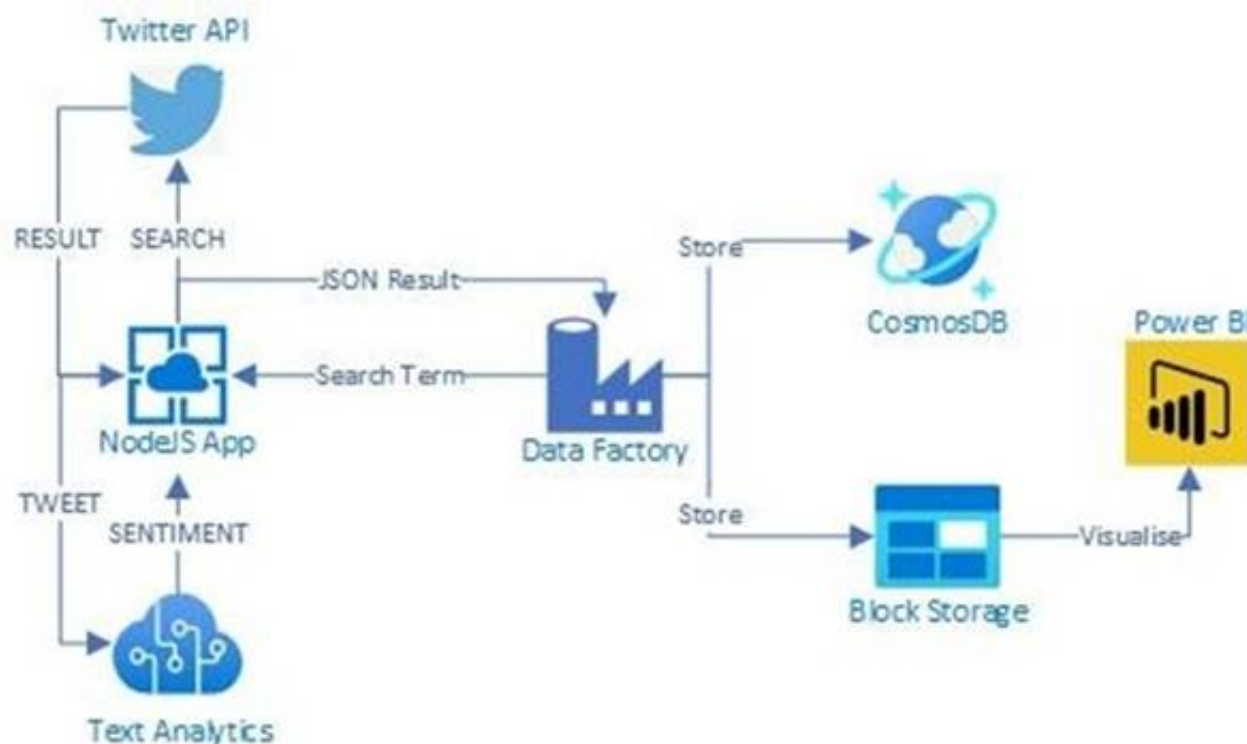
- A. Text Analytics  
 B. Content Moderator  
 C. Computer Vision  
 D. Form Recognizer

**Answer:** A

### Explanation:

Text Analytics Cognitive Service could be used to quickly determine the public perception for a specific topic, event or brand.

Example: A NodeJS app which pulls Tweets from Twitter using the Twitter API based on a specified search term. Then pass these onto Text Analytics for sentiment scoring before storing the data and building a visualisation in PowerBI. The Architecture looked something like this:



Reference:

<https://www.linkedin.com/pulse/measuring-public-perception-azure-cognitive-services- steve-dalai>

## NEW QUESTION 81

HOTSPOT - (Topic 3)

You are building a chatbot by using the Microsoft Bot Framework Composer. You have the dialog design shown in the following exhibit.

AskForName > BeginDialog > Text

Show code

BeginDialog

Begin dialog event

Bot Asks (Text)

What is your name?

User Input (Text)

user.name = Input(Text)

Bot Asks (Number)

Hello \$(user.name), how old are you?

User Input (Number)

user.age = Input(Number)

Property ⓘ

string

username

Output Format ⓘ

string

ex. =toUpper(this.value), \$(toUpper(this.value))

Value ⓘ

expression

fx =coalesce(@user.Name.@personName)

Expected responses (intent:  
#TextInput\_Response\_GH5FTe)

>

For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
NOTE: Each correct selection is worth one point.

Answer Area	Statements	Yes	No
	user.name is an entity.	<input type="radio"/>	<input type="radio"/>
	The dialog asks for a user name and a user age and assigns appropriate values to the user.name and user.age properties.	<input type="radio"/>	<input type="radio"/>
	The chatbot attempts to take the first non-null entity value for userName or personName and assigns the value to user.name.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Box 1: No  
User.name is a property. Box 2: Yes  
Box 3: Yes  
The coalesce() function evaluates a list of expressions and returns the first non-null (or non-empty for string) expression.

NEW QUESTION 84

HOTSPOT - (Topic 3)  
You plan to deploy a containerized version of an Azure Cognitive Services service that will be used for text analysis.  
You configure <https://contoso.cognitiveservices.azure.com> as the endpoint URI for the service, and you pull the latest version of the Text Analytics Sentiment Analysis container.  
You need to run the container on an Azure virtual machine by using Docker.  
How should you complete the command? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.



```
docker run --rm -it -p 5000:5000 --memory 8g --cpus 1 \
  \
  http://contoso.blob.core.windows.net
  https://contoso.cognitiveservices.azure.com
  mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase
  mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment

Eula=accept \
Billing=
  http://contoso.blob.core.windows.net
  https://contoso.cognitiveservices.azure.com
  mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase
  mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment

ApiKey=xxxxxxxxxxxxxxxxxxxxxx
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment

To run the Sentiment Analysis v3 container, execute the following docker run command. docker run --rm -it -p 5000:5000 --memory 8g --cpus 1 \ mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment \ Eula=accept \

Billing={ENDPOINT\_URI} \

ApiKey={API\_KEY} is the endpoint for accessing the Text Analytics API. https://<your- custom-subdomain>.cognitiveservices.azure.com

Box 2: https://contoso.cognitiveservices.azure.com

{ENDPOINT\_URI} is the endpoint for accessing the Text Analytics API: https://<your- custom-subdomain>.cognitiveservices.a The endpoint for accessing the Text Analytics API. zure.com

**NEW QUESTION 89**

HOTSPOT - (Topic 3)

You have a library that contains thousands of images.

You need to tag the images as photographs, drawings, or clipart.

Which service endpoint and response property should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Service endpoint:

Property:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Service endpoint:

Property:

**NEW QUESTION 94**

HOTSPOT - (Topic 3)

You are building a chatbot by using the Microsoft Bot Framework SDK.

You use an object named UserProfile to store user profile information and an object named ConversationData to store information related to a conversation.

You create the following state accessors to store both objects in state.

var userStateAccessors = \_userState.CreateProperty<UserProfile>(nameof(UserProfile)); var conversationStateAccessors = \_conversationState.CreateProperty<ConversationData>(nameof(ConversationData)); The state storage mechanism is set to Memory Storage. For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
 NOTE: Each correct selection is worth one point.

Statements	Yes	No
The code will create and maintain the <code>UserProfile</code> object in the underlying storage layer.	<input type="radio"/>	<input type="radio"/>
The code will create and maintain the <code>ConversationData</code> object in the underlying storage layer.	<input type="radio"/>	<input type="radio"/>
The <code>UserProfile</code> and <code>ConversationData</code> objects will persist when the Bot Framework runtime terminates.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

You create property accessors using the `CreateProperty` method that provides a handle to the `BotState` object. Each state property accessor allows you to get or set the value of the associated state property.

Box 2: Yes

Box 3: No

Before you exit the turn handler, you use the state management objects' `SaveChangesAsync()` method to write all state changes back to storage.

**NEW QUESTION 98**

- (Topic 3)

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 container
- B. Create a Cognitive Search service for each containe
- C. Within each indexer definition, schedule the same runtime execution pattern.
- D. Split the data into multiple blob container
- E. Create an indexer for each containe
- F. Increase the search unit
- G. Within each indexer definition, schedule a sequential execution pattern.
- H. Create a Cognitive Search service for each type of document.
- I. Split the data into multiple virtual folder
- J. Create an indexer for each folde
- K. Increase the search unit
- L. Within each indexer definition, schedule the same runtime execution pattern.

**Answer:** D

**Explanation:**

Reference:

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

**NEW QUESTION 101**

- (Topic 3)

You are building a chatbot.

You need to ensure that the bot will recognize the names of your company's products and codenames. The solution must minimize development effort.

Which Azure Cognitive Service for Language service should you include in the solution?

- A. custom text classification
- B. entity linking
- C. custom Named Entity Recognition (NER)
- D. key phrase extraction

**Answer:** C

**NEW QUESTION 103**

DRAG DROP - (Topic 3)

You have a question answering project in Azure Cognitive Service for Language.

You need to move the project to a Language service instance in a different Azure region. Which three 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.

Actions	Answer Area
From the new Language service instance, import the project file.	
From the new Language service instance, enable custom text classification.	
From the new Language service instance, train and publish the project.	
From the original Language service instance, export the existing project.	
From the new Language service instance, regenerate the keys.	
From the original Language service instance, train and publish the model.	

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Actions	Answer Area
From the new Language service instance, import the project file.	From the original Language service instance, export the existing project.
From the new Language service instance, enable custom text classification.	
From the new Language service instance, train and publish the project.	From the new Language service instance, regenerate the keys.
From the original Language service instance, export the existing project.	
From the new Language service instance, regenerate the keys.	From the original Language service instance, train and publish the model.
From the original Language service instance, train and publish the model.	

### NEW QUESTION 108

- (Topic 3)

You build a chatbot that uses the Azure OpenAI GPT 3.5 model.

You need to improve the quality of the responses from the chatbot. The solution must minimize development effort.

What are two ways to achieve the goal? Each correct answer presents a complete solution. NOTE: Each correct answer is worth one point.

- A. Fine-tune the model.  
B. Provide grounding content.  
C. Add sample request/response pairs.  
D. Retrain the language model by using your own data.  
E. Train a custom large language model (LLM).

**Answer:** BC

### NEW QUESTION 110

- (Topic 3)

You have a chatbot that was built by using the Microsoft Bot Framework. You need to debug the chatbot endpoint remotely.

Which two tools should you install on a local computer? Each correct answer presents part of the solution. (Choose two.)

NOTE: Each correct selection is worth one point.

- A. Fiddler  
B. Bot Framework Composer  
C. Bot Framework Emulator  
D. Bot Framework CLI  
E. ngrok  
F. nginx

**Answer:** CE

**Explanation:**

Bot Framework Emulator is a desktop application that allows bot developers to test and debug bots, either locally or remotely.

ngrok is a cross-platform application that "allows you to expose a web server running on your local machine to the internet." Essentially, what we'll be doing is using ngrok to forward messages from external channels on the web directly to our local machine to allow debugging, as opposed to the standard messaging endpoint configured in the Azure portal.

Reference:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-debug-emulator>

### NEW QUESTION 113

DRAG DROP - (Topic 3)

You build a bot by using the Microsoft Bot Framework SDK. You need to test the bot interactively on a local machine.

Which three 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

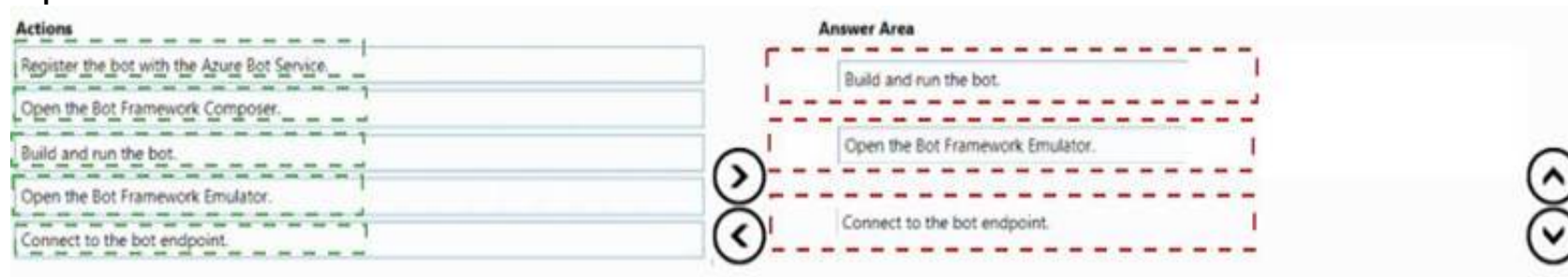
Actions	Answer Area
Register the bot with the Azure Bot Service.	
Open the Bot Framework Composer.	
Build and run the bot.	
Open the Bot Framework Emulator.	
Connect to the bot endpoint.	



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



#### NEW QUESTION 118

- (Topic 3)

What are two benefits of platform as a service (PaaS) relational database offerings in Azure, such as Azure SQL Database? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. reduced administrative effort for managing the server infrastructure
- B. complete control over backup and restore processes
- C. in-database machine learning services S3
- D. access to the latest features

**Answer:** AD

#### NEW QUESTION 122

- (Topic 3)

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 in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a chatbot that uses question answering in Azure Cognitive Service for Language Users report that the responses of the chatbot lack formality when answering spurious questions

You need to ensure that the chatbot provides formal responses to spurious questions. Solution: From Language Studio, you remove all the chit-chat question and answer pairs, and then retrain and republish the model Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Removing all the chit-chat question and answer pairs from the project will not ensure that the chatbot provides formal responses to spurious questions. It will only make the chatbot unable to handle any chit-chat scenarios, which may result in a poor user experience and a loss of engagement. Instead, you should choose a chit-chat personality that matches the tone and style of your chatbot, such as Professional or Caring. You can also edit the chit-chat questions and answers to suit your specific needs, or add new ones that are not in the predefined data set<sup>12</sup>. This way, you can ensure that the chatbot responds appropriately to spurious questions, while still maintaining a conversational and engaging interaction with the user.

#### NEW QUESTION 124

- (Topic 3)

You have an Azure subscription that contains an Azure Cognitive Service for Language resource. You need to identify the URL of the REST interface for the Language service. Which blade should you use in the Azure portal?

- A. Identity
- B. Keys and Endpoint
- C. Properties
- D. Networking

**Answer:** B

#### NEW QUESTION 129

HOTSPOT - (Topic 3)

You are building an app that will process incoming email and direct email messages to either French or English language support teams.

Which Azure Cognitive Services API should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

• • • • •

Answer Area

https://

api.cognitive.microsofttranslator.com

api.cognitive.microsofttranslator.com

eastus.api.cognitive.microsoft.com

portal.azure.com

/text/analytics/v3.1/entities/recognition/general

/text/analytics/v3.1/entities/recognition/general

/text/analytics/v3.1/languages

/translator/text/v3.0/translate?to=en

/translator/text/v3.0/translate?to=fr

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

• • • • •

Answer Area

https://

api.cognitive.microsofttranslator.com

api.cognitive.microsofttranslator.com

eastus.api.cognitive.microsoft.com

portal.azure.com

/text/analytics/v3.1/entities/recognition/general

/text/analytics/v3.1/entities/recognition/general

/text/analytics/v3.1/languages

/translator/text/v3.0/translate?to=en

/translator/text/v3.0/translate?to=fr

**NEW QUESTION 130**

- (Topic 3)  
You build a custom Form Recognizer model.  
You receive sample files to use for training the model as shown in the following table.

Name	Type	Size
File1	PDF	20 MB
File2	MP4	100 MB
File3	JPG	20 MB
File4	PDF	100 MB
File5	GIF	1 MB
File6	JPG	40 MB

Which three files can you use to train the model? Each correct answer presents a complete solution. (Choose three.)  
NOTE: Each correct selection is worth one point.

- A. File1
- B. File2
- C. File3
- D. File4
- E. File5
- F. File6

Answer: ACF

Explanation:

Input requirements  
Form Recognizer works on input documents that meet these requirements:  
Format must be JPG, PNG, PDF (text or scanned), or TIFF. Text-embedded PDFs are best because there's no possibility of error in character extraction and location.  
File size must be less than 50 MB.  
Reference:  
<https://docs.microsoft.com/en-us/azure/cognitive-services/form-recognizer/overview>

**NEW QUESTION 134**

HOTSPOT - (Topic 3)  
Select the answer that correctly completes the sentence.

Answer Area

The 

ALTER

JOIN

SET

WHERE

 clause can be used in Data Manipulation Language (DML) statements to specify the criteria that rows must match.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Answer Area

**NEW QUESTION 137**

- (Topic 3)

You are developing a method for an application that uses the Translator API.

The method will receive the content of a webpage, and then translate the content into Greek (el). The result will also contain a transliteration that uses the Roman alphabet.

You need to create the URI for the call to the Translator API. You have the following URI. <https://api.cognitive.microsofttranslator.com/translate?api-version=3.0>

Which three additional query parameters should you include in the URI? Each correct answer presents part of the solution. (Choose three.)

NOTE: Each correct selection is worth one point.

- A. toScript=Cyrl
- B. from=el
- C. textType=html
- D. to=el
- E. textType=plain
- F. toScript=Latn

**Answer:** ADF**Explanation:**

C: textType is an optional parameter. It defines whether the text being translated is plain text or HTML text (used for web pages).

D: to is a required parameter. It specifies the language of the output text. The target language must be one of the supported languages included in the translation scope.

F: toScript is an optional parameter. It specifies the script of the translated text. We use Latin (Roman alphabet) script.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/translator/reference/v3-0-translate>

**NEW QUESTION 142**

- (Topic 2)

You are developing the chatbot.

You create the following components:

- \* A QnA Maker resource
- \* 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. QnADialogResponseOptions.CardNoMatchText
- B. Qna MakerOptions-ScoreThreshold
- C. Qna Maker Op t ions StrickFilters
- D. QnaMakerOptions.RankerType

**Answer:** D**Explanation:**

Scenario: When the response confidence score is low, ensure that the chatbot can provide other response options to the customers.

When no good match is found by the ranker, the confidence score of 0.0 or "None" is returned and the default response is "No good match found in the KB". You can override this default response in the bot or application code calling the endpoint. Alternately, you can also set the override response in Azure and this changes the default for all knowledge bases deployed in a particular QnA Maker service.

Choosing Ranker type: By default, QnA Maker searches through questions and answers. If you want to search through questions only, to generate an answer, use the RankerType=QuestionOnly in the POST body of the GenerateAnswer request.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/concepts/best-practices>

**NEW QUESTION 143**

- (Topic 2)

You are developing the knowledgebase.

You use Azure Video Analyzer for Media (previously Video indexer) to obtain transcripts of webinars.

You need to ensure that the solution meets the knowledgebase requirements. What should you do?

- A. Create a custom language model
- B. Configure audio indexing for videos only
- C. Enable multi-language detection for videos
- D. Build a custom Person model for webinar presenters

**Answer:** B**Explanation:**

Can search content in different formats, including video

Audio and video insights (multi-channels). When indexing by one channel, partial result for those models will be available.

Keywords extraction: Extracts keywords from speech and visual text.

Named entities extraction: Extracts brands, locations, and people from speech and visual text via natural language processing (NLP).



NEW QUESTION 145

HOTSPOT - (Topic 2)

You build a QnA Maker resource to meet the chatbot requirements.

Which RBAC role should you assign to each group? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Management-Accountants	<div>▼</div> <div>Owner Contributor Cognitive Services User Cognitive Services QnA Maker Read Cognitive Services QnA Maker Editor</div>
Consultant-Accountants	<div>▼</div> <div>Owner Contributor Cognitive Services User Cognitive Services QnA Maker Read Cognitive Services QnA Maker Editor</div>
Agent-CustomerServices	<div>▼</div> <div>Owner Contributor Cognitive Services User Cognitive Services QnA Maker Read Cognitive Services QnA Maker Editor</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Cognitive Service User

Ensure that the members of a group named Management-Accountants can approve the FAQs.

Approve=publish.

Cognitive Service User (read/write/publish): API permissions: All access to Cognitive Services resource except for ability to:

- \* 1. Add new members to roles.
- \* 2. Create new resources.

Box 2: Cognitive Services QnA Maker Editor

Ensure that the members of a group named Consultant-Accountants can create and amend the FAQs.

QnA Maker Editor: API permissions:

- \* 1. Create KB API
- \* 2. Update KB API
- \* 3. Replace KB API
- \* 4. Replace Alterations
- \* 5. "Train API" [in new service model v5]

Box 3: Cognitive Services QnA Maker Read

Ensure that the members of a group named the Agent-CustomerServices can browse the FAQs.

QnA Maker Read: API Permissions:

- \* 1. Download KB API
- \* 2. List KBs for user API
- \* 3. Get Knowledge base details
- \* 4. Download Alterations Generate Answer

NEW QUESTION 148

HOTSPOT - (Topic 1)

You are developing the shopping on-the-go project.

You are configuring access to the QnA Maker resources.

Which role should you assign to AllUsers and LeadershipTeam? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

AllUsers: 

	▼
Cognitive Service User	
Contributor	
Owner	
QnA Maker Editor	
QnA Maker Read	

LeadershipTeam: 

	▼
Cognitive Service User	
Contributor	
Owner	
QnA Maker Editor	
QnA Maker Read	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: QnA Maker Editor  
Scenario: Provide all employees with the ability to edit Q&As.  
The QnA Maker Editor (read/write) has the following permissions: Create KB API  
Update KB API Replace KB API Replace Alterations "Train API" [in  
new service model v5]  
Box 2: Contributor  
Scenario: Only senior managers must be able to publish updates. Contributor permission: All except ability to add new members to roles

NEW QUESTION 150

.....

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