

# Microsoft

## Exam Questions AI-102

Designing and Implementing an Azure AI Solution



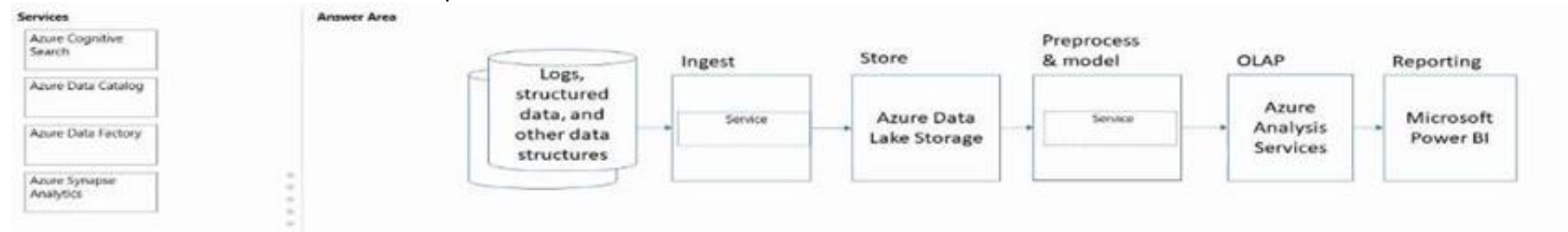
### NEW QUESTION 1

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.

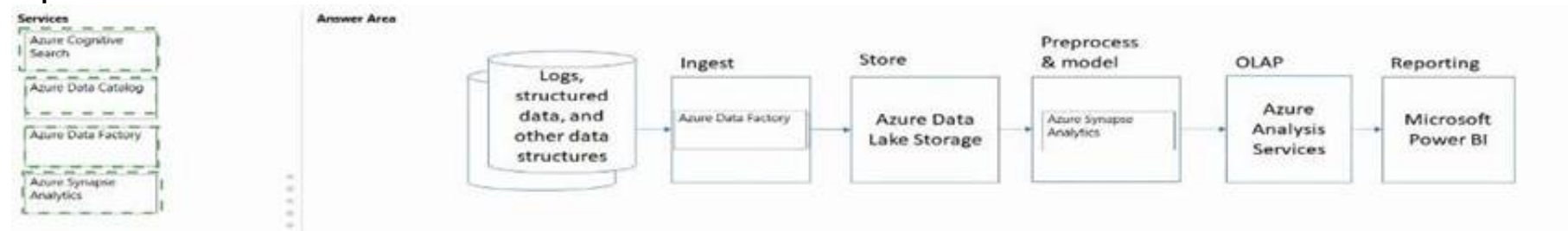
NOTE: Each correct match is worth one point.



- 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 are creating an enrichment pipeline that will use Azure Cognitive Search. The knowledge store contains unstructured JSON data and scanned PDF documents that contain text.

Which projection type should you use for each data type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

JSON data:

	▼
File projection	
Object projection	
Table projection	

Scanned data:

	▼
File projection	
Object projection	
Table projection	

- A. Mastered
- B. Not Mastered

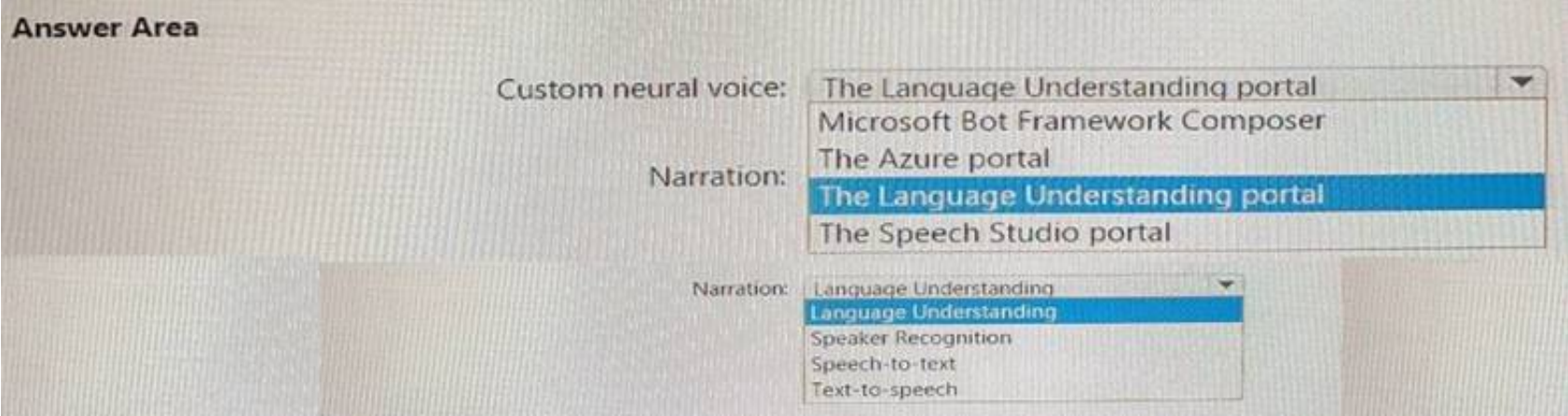
**Answer:** A

**Explanation:**

Box 1: Object projection  
Object projections are JSON representations of the enrichment tree that can be sourced from any node.  
Box 2: File projection  
File projections are similar to object projections and only act on the normalized\_images collection.

**NEW QUESTION 4**

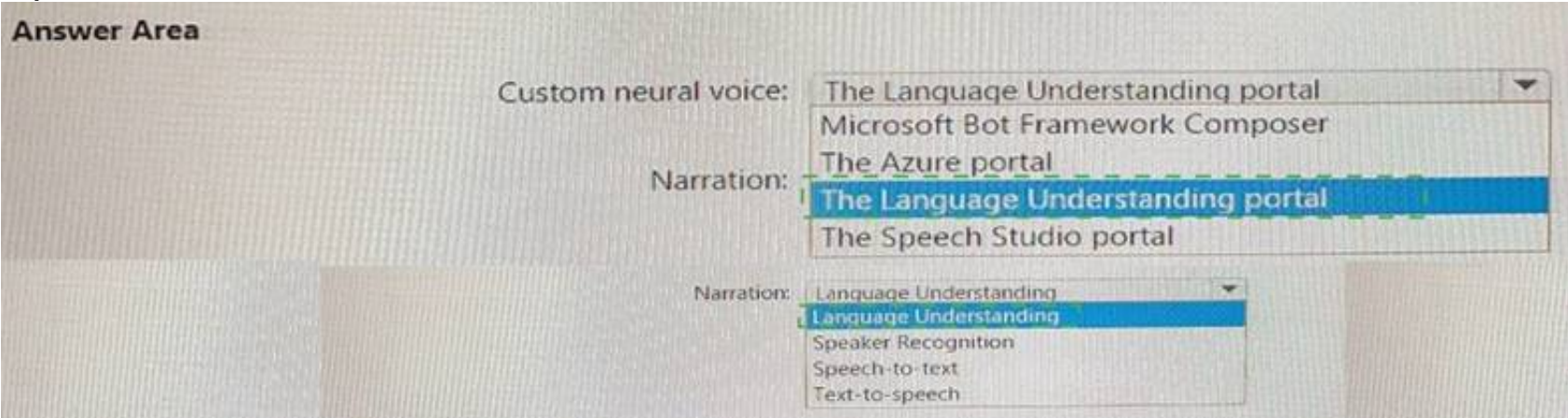
HOTSPOT - (Topic 3)  
You are building content for a video training solution.  
You need to create narration to accompany the video content. The solution must use Custom Neural Voice.  
What should you use to create a custom neural voice, and which service should you use to generate the narration? To 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**

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



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 6**

HOTSPOT - (Topic 3)  
You are building a chatbot.

You need to use the Content Moderator service to identify messages that contain sexually explicit language.

Which section in the response from the service will contain the category score, and which category will be assigned to the message? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Section: Classification  
 Classification  
 pii  
 Terms

Category: 3  
 1  
 2  
 3

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Section: Classification  
 Classification  
 pii  
 Terms

Category: 3  
 1  
 2  
 3

#### NEW QUESTION 7

- (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 8

- (Topic 3)

You are building a chatbot for a travel agent. The chatbot will use the Azure OpenAI GPT 3.5 model and will be used to make travel reservations.

You need to maximize the accuracy of the responses from the chatbot. What should you do?

- A. Configure the model to include data from the travel agent's database.
- B. Set the Top P parameter for the model to 0.
- C. Set the Temperature parameter for the model to 0.
- D. Modify the system message used by the model to specify that the answers must be accurate.

Answer: A

#### NEW QUESTION 9

- (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 enable customer-managed key (CMK) encryption.

Does this meet the goal?

- A. Yes
- B. No

Answer: B



**Explanation:**

Customer-managed key (CMK) encryption does not affect throttling.

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 10**

- (Topic 3)

Your company needs to implement a relational database in Azure. The solution must minimize ongoing maintenance. Which Azure service should you use?

- A. SQL Server on Azure Virtual Machines
- B. Azure SQL Database
- C. Azure HDInsight
- D. Azure Cosmos DB

**Answer: B**

**NEW QUESTION 10**

- (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 build a language model by using a Language Understanding service. The language model is used to search for information on a contact list by using an intent named FindContact.

A conversational expert provides you with the following list of phrases to use for training.

Find contacts in London. Who do I know in Seattle? Search for contacts in Ukraine.

You need to implement the phrase list in Language Understanding. Solution: You create a new pattern in the FindContact intent.

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Instead use a new intent for location.

Note: An intent represents a task or action the user wants to perform. It is a purpose or goal expressed in a user's utterance.

Define a set of intents that corresponds to actions users want to take in your application. Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-intent>

**NEW QUESTION 12**

DRAG DROP - (Topic 3)

You have an app that manages feedback.

You need to ensure that the app can detect negative comments by using the Sentiment Analysis API in Azure Cognitive Service for Language. The solution must ensure that the managed feedback remains on your company's internal network.

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**

Provision the Language service resource in Azure.

Deploy a Docker container to an Azure container instance.

Deploy a Docker container to an on-premises server.

Identify the Language service endpoint URL and query the prediction endpoint.

Run the container and query the prediction endpoint.

**Answer Area**

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

? Provision the Language service resource in Azure.

? Deploy a Docker container to an on-premises server.

? Run the container and query the prediction endpoint.

? According to the Microsoft documentation, the Language service is a cloud-based service that provides various natural language processing features, such as sentiment analysis, key phrase extraction, named entity recognition, etc. You can provision the Language service resource in Azure by following the steps in Create a Language resource. You will need to provide a name, a subscription, a resource group, a region, and a pricing tier for your resource. You will also get a key and an endpoint for your resource, which you will use to authenticate your requests to the Language service API.

? According to the Microsoft documentation, you can also use the Language service as a container on your own premises or in another cloud. This option gives you more control over your data and network, and allows you to use the Language service without an internet connection. You can deploy a Docker container to an on-premises server by following the steps in Deploy Language containers. You will need to have Docker installed on your server, pull the container image from the Microsoft Container Registry, and run the container with the appropriate parameters. You will also need to activate your container with your key and endpoint from your Azure resource.

? According to the Microsoft documentation, once you have deployed and activated your container, you can run it and query the prediction endpoint to get

sentiment analysis results. The prediction endpoint is a local URL that follows this format: `http://<container IP address>:<port>/text/analytics/v3.1-preview.4/sentiment`. You can send HTTP POST requests to this endpoint with your text input in JSON format, and receive JSON responses with sentiment labels and scores for each document and sentence in your input.

#### NEW QUESTION 17

- (Topic 3)

You are examining the Language service output of an application.

The text analyzed is: Our tour guide took us up the Space Needle during our trip to Seattle last week.

The response contains the data shown in the following table.

Text	Category	ConfidenceScore
Tour guide	PersonType	0.45
Space Needle	Location	0.38
Trip	Event	0.78
Seattle	Location	0.78
Last week	DateTime	0.80

Which Language service API is used to analyze the Text?

- A. Entity Linking
- B. Named Entity Recognition
- C. Key Phrase Extraction
- D. Sentiment Analysis

**Answer: B**

#### NEW QUESTION 19

- (Topic 3)

You build a conversational bot named bot1.

You need to configure the bot to use a QnA Maker application.

From the Azure Portal, where can you find the information required by bot1 to connect to the QnA Maker application?

- A. Access control (IAM)
- B. Properties
- C. Keys and Endpoint
- D. Identity

**Answer: C**

#### Explanation:

Obtain values to connect your bot to the knowledge base 1. In the QnA Maker site, select your knowledge base. 2. With your knowledge base open, select the SETTINGS tab. Record the value shown for service name. This value is useful for finding your knowledge base of interest when using the QnA Maker portal interface. It's not used to connect your bot app to this knowledge base. 3. Scroll down to find Deployment details and record the following values from the Postman sample HTTP request: 4. POST /knowledgebases/<knowledge-base-id>/generateAnswer 5. Host: <your-host-url> 6. Authorization: EndpointKey <your-endpoint-key>

Reference:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-qna>

#### NEW QUESTION 20

HOTSPOT - (Topic 3)

You are building a bot and that will use Language Understanding. You have a LUDown file that contains the following content.

```
## Confirm
- confirm
- ok
- yes

## ExtractName
- call me steve !
- i am anna
- (i'm|i am) {@PersonName.Any}[.]
- my name is {@PersonName.Any}[.]

## Logout
- forget me
- log out

## SelectItem
- choose last
- choose the {@DirectionalReference=bottom left}
- choose {@DirectionalReference=top right}
- i like {@DirectionalReference=left} one

## SelectNone
- none

@ ml DirectionalReference
@ prebuilt personName
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.  
NOTE: Each correct selection is worth one point.

SelectItem is [answer choice].

a domain  
an entity  
an intent  
an utterance

Choose {@DirectionalReference=top right} is [answer choice].

a domain  
an entity  
an intent  
an utterance

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

SelectItem is [answer choice].

a domain  
an entity  
an intent  
an utterance

Choose {@DirectionalReference=top right} is [answer choice].

a domain  
an entity  
an intent  
an utterance

NEW QUESTION 24

- (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 28

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 = "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);  
...
```

- 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 30



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

```
static void GetKeywords(TextAnalyticsClient textAnalyticsClient, string text)
{
    var response = textAnalyticsClient.RecognizeEntities (text);
    Console.WriteLine("Key words:");

    foreach (CategorizedEntity entity in response.Value)
    {
        Console.WriteLine($"{entity.Text}");
    }
}
```

For the second argument, you call the function and specify the following string. Our tour of Paris included a visit to the Eiffel Tower.  
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
The output will include the following words: our and included.	<input type="radio"/>	<input type="radio"/>
The output will include the following words: Paris, Eiffel, and Tower.	<input type="radio"/>	<input type="radio"/>
The function will output all the key phrases from the input string to the console.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
The output will include the following words: our and included.	<input checked="" type="radio"/>	<input type="radio"/>
The output will include the following words: Paris, Eiffel, and Tower.	<input type="radio"/>	<input checked="" type="radio"/>
The function will output all the key phrases from the input string to the console.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 32

- (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 35

- (Topic 3)  
You are building a chatbot by using Microsoft Bot Framework Composer.  
You need to configure the chatbot to present a list of available options. The solution must ensure that an image is provided for each option.  
Which two features should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. an Azure function
- B. an adaptive card
- C. an entity
- D. a dialog

E. an utterance

**Answer:** BD

### NEW QUESTION 38

- (Topic 3)

You need to develop a solution to provide data to executives. The solution must provide an interactive graphical interface, depict various key performance indicators, and support data exploration by using drill down. What should you use in Microsoft Power BI?

- A. a report
- B. Microsoft Power Apps
- C. a view
- D. a dataflow

**Answer:** C

### NEW QUESTION 39

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	"eastus", "S1"
ComputerVision	"eastus", "S1"
CustomVision.Prediction	"useast", "S1"
CustomVision.Training	"S0", "eastus"
FormRecognizer	"S0", "useast"

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

provision\_resource("res1",

FormRecognizer	"eastus", "S1"
ComputerVision	"eastus", "S1"
CustomVision.Prediction	"useast", "S1"
CustomVision.Training	"S0", "eastus"
FormRecognizer	"S0", "useast"

### NEW QUESTION 41

- (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 46

- (Topic 3)

You have a collection of 50,000 scanned documents that contain text. You plan to make the text available through Azure Cognitive Search.

You need to configure an enrichment pipeline to perform optical character recognition (OCR) and text analytics. The solution must minimize costs. What should you attach to the skillset?

- A. a new Computer Vision resource
- B. a free (Limited enrichments) Cognitive Services resource
- C. an Azure Machine Learning pipeline
- D. a new Cognitive Services resource that uses the SO pricing tier

**Answer:** A

**Explanation:**

The Computer Vision API uses text recognition APIs to extract and recognize text information from images. Read uses the latest recognition models, and is optimized for large, text-heavy documents and noisy images.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/cognitive-search-with-skillsets>

**NEW QUESTION 48**

- (Topic 3)

You have a Language Understanding resource named lu1. You build and deploy an Azure bot named bot1 that uses lu1.

You need to ensure that bot1 adheres to the Microsoft responsible AI principle of inclusiveness.

How should you extend bot1?

- A. Implement authentication for bot1.
- B. Enable active learning for lu1.
- C. Host lu1 in a container.
- D. Add Direct Line Speech to bot1.

**Answer: D**

**Explanation:**

Inclusiveness: AI systems should empower everyone and engage people.

Direct Line Speech is a robust, end-to-end solution for creating a flexible, extensible voice assistant. It is powered by the Bot Framework and its Direct Line Speech channel, that is optimized for voice-in, voice-out interaction with bots.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/direct-line-speech>

**NEW QUESTION 50**

- (Topic 3)

You are developing a monitoring system that will analyze engine sensor data, such as rotation speed, angle, temperature, and pressure. The system must generate an alert in response to atypical values.

What should you include in the solution?

- A. Application Insights in Azure Monitor
- B. metric alerts in Azure Monitor
- C. Multivariate Anomaly Detection
- D. Univariate Anomaly Detection

**Answer: C**

**NEW QUESTION 54**

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

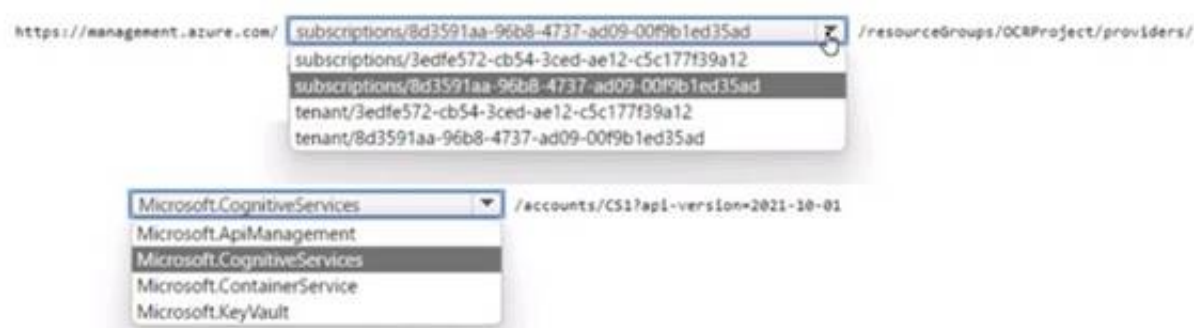
You plan to create a resource that will perform sentiment analysis and optical character recognition (OCR).

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

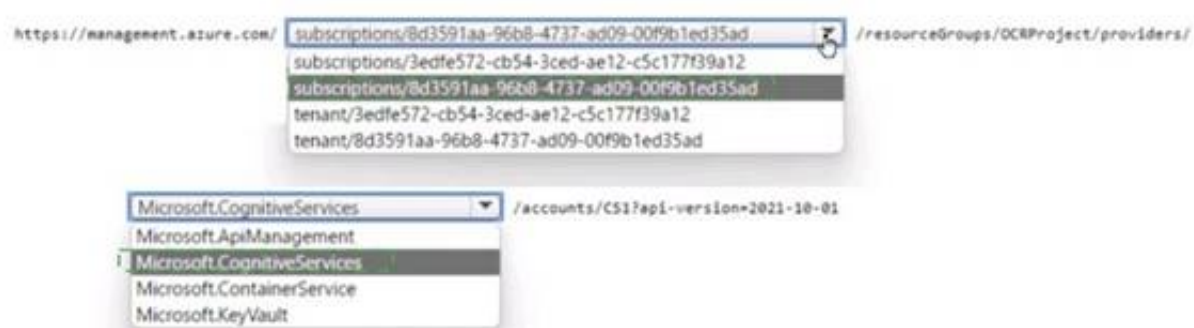


- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Answer Area





#### NEW QUESTION 55

- (Topic 3)

You are building a Chatbot by using the Microsoft Bot Framework SDK. The bot will be used to accept food orders from customers and allow the customers to customize each food item. You need to configure the bot to ask the user for additional input based on the type of item ordered. The solution must minimize development effort. Which two types of dialogs should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. adaptive
- B. action
- C. waterfall
- D. prompt
- E. input

**Answer:** BC

#### NEW QUESTION 59

- (Topic 3)

You need to build a chatbot that meets the following requirements:

? Supports chit-chat, knowledge base, and multilingual models

? Performs sentiment analysis on user messages

? Selects the best language model automatically

What should you integrate into the chatbot?

- A. QnA Maker, Language Understanding, and Dispatch
- B. Translator, Speech, and Dispatch
- C. Language Understanding, Text Analytics, and QnA Maker
- D. Text Analytics, Translator, and Dispatch

**Answer:** C

#### Explanation:

Language Understanding: An AI service that allows users to interact with your applications, bots, and IoT devices by using natural language.

QnA Maker is a cloud-based Natural Language Processing (NLP) service that allows you to create a natural conversational layer over your data. It is used to find the most appropriate answer for any input from your custom knowledge base (KB) of information.

Text Analytics: Mine insights in unstructured text using natural language processing (NLP)—no machine learning expertise required. Gain a deeper understanding of customer opinions with sentiment analysis. The Language Detection feature of the Azure Text Analytics REST API evaluates text input

Reference:

<https://azure.microsoft.com/en-us/services/cognitive-services/text-analytics/> <https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/overview/overview>

#### NEW QUESTION 64

- (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 66

- (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 develop an application to identify species of flowers by training a Custom Vision model. You receive images of new flower species.

You need to add the new images to the classifier.

Solution: You add the new images and labels to the existing model. You retrain the model, and then publish the model.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

#### Explanation:

The model needs to be extended and retrained.

#### NEW QUESTION 68

HOTSPOT - (Topic 3)

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
Normalization involves eliminating relationships between database tables.	<input type="radio"/>	<input type="radio"/>
Normalizing a database reduces data redundancy.	<input type="radio"/>	<input type="radio"/>
Normalization improves data integrity.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Statements	Yes	No
Normalization involves eliminating relationships between database tables.	<input type="radio"/>	<input checked="" type="radio"/>
Normalizing a database reduces data redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
Normalization improves data integrity.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 71**

- (Topic 3)

You create a bot by using the Microsoft Bot Framework SDK.

You need to configure the bot to respond to events by using custom text responses. What should you use?

- A. an adaptive card  
B. an activity handler  
C. a dialog  
D. a skill

**Answer:** B

**NEW QUESTION 72**

HOTSPOT - (Topic 3)

You are building an Azure web app named App1 that will translate text from English to Spanish.

You need to use the Text Translation REST API to perform the translation. The solution must ensure that you have data sovereignty in the United States.

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

NOTE: Each correct selection is worth one point.

Answer Area

https://  /  ?api-version=3.0&to=es

api-nam.cognitive.microsofttranslator.com

api.cognitive.microsofttranslator.com

api-nam.cognitive.microsofttranslator.com

api-nam.cognitiveservices.azure.com

eastus.api.cognitive.microsoft.com

translate

detect

languages

text-to-speech

translate

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

\* 1. api-nam.cognitive.microsofttranslator.com

\* 2. translate

<https://learn.microsoft.com/en-us/azure/cognitive-services/Translator/reference/v3-0-reference#base-urls>

Requests to Translator are, in most cases, handled by the datacenter that is closest to where the request originated. If there's a datacenter failure when using the global endpoint, the request may be routed outside of the geography.

To force the request to be handled within a specific geography, use the desired geographical endpoint. All requests are processed among the datacenters within the geography.

- United States

api-nam.cognitive.microsofttranslator.com

<https://learn.microsoft.com/en-us/azure/cognitive-services/translator/reference/rest-api-guide-translate>

Translate specified source language text into the target language text.

**NEW QUESTION 73**

HOTSPOT - (Topic 3)

You are developing an application to recognize employees' faces by using the Face Recognition API. Images of the faces will be accessible from a URI endpoint.

The application has the following code.

```
static async void AddFace(string subscription_key, string personGroupId, string personId, string imageUri)
{
    var client = new HttpClient();
    client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", subscription_key);
    var endpointUri = $"https://westus.api.cognitive.microsoft.com/face/v1.0/persongroups/{personGroupId}/persons/{personId}/persistedFaces";
    HttpResponseMessage response;
    var body = "{ \"url\": \"\" + imageUri + \"\" }";
    var content = new StringContent(body, Encoding.UTF8, "application/json");
    var response = await client.PutAsync(endpointUri, content);
}
```

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 add a face image to a person object in a person group.	<input type="radio"/>	<input type="radio"/>
The code will work for a group of 10,000 people.	<input type="radio"/>	<input type="radio"/>
AddFace can be called multiple times to add multiple face images to a person object.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

B: see this example code from documentation that uses PersonGroup of size 10,000 : <https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/how-to-add-faces>

the question wants to trick you into thinking you need to use a LargePersonGroup for a size of 10,000 - but the documentation for it doesn't include this limitation or criteria: <https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/how-to-use-large-scale>

**NEW QUESTION 75**

- (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 FormRecognizerClient client and the StartRecognizeReceiptsFromUri method  
B. the FormTrainingClient client and the StartRecognizeReceiptsFromUri method  
C. the FormRecognizerClient client and the StartRecognizeReceiptsFromUri method  
D. the FormTrainingClient client and the StartRecognizeReceiptsFromUri 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 79**

- (Topic 3)

You have an Azure Cognitive Search solution and a collection of handwritten letters stored as JPEG files.

You plan to index the collection. The solution must ensure that queries can be performed on the contents of the letters.

You need to create an indexer that has a skillset. Which skill should you include?

- A. key phrase extraction  
B. optical character recognition (OCR)  
C. document extraction  
D. image analysis

**Answer:** B

**NEW QUESTION 81**

- (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 in User

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

Users will 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.

Which 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 85**

- (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 86**

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 90**

HOTSPOT - (Topic 3)

You are reviewing the design of a chatbot. The chatbot includes a language generation file that contains the following fragment.

```
# Greet(user)
- ${Greeting()}, ${user.name}
```

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
<code>\${user.name}</code> retrieves the user name by using a prompt.	<input type="radio"/>	<input type="radio"/>
<code>Greet()</code> is the name of the language generation template.	<input type="radio"/>	<input type="radio"/>
<code>\${Greeting() }</code> is a reference to a template in the language generation file.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Box 1: No

Example: Greet a user whose name is stored in ``user.name``

- `${ welcomeUser(user.name) }`

Example: Greet a user whose name you don't know:

- `${ welcomeUser() }`

Box 2: No

Greet(User) is a Send a response action. Box 3: Yes

NEW QUESTION 95

HOTSPOT - (Topic 3)

You develop a test method to verify the results retrieved from a call to the Computer Vision API. The call is used to analyze the existence of company logos in images. The call returns a collection of brands named brands.

You have the following code segment.

```
foreach (var brand in brands)
{
    if (brand.Confidence >= .75)
        Console.WriteLine($"Logo of {brand.Name} between {brand.Rectangle.X},
{brand.Rectangle.Y} and {brand.Rectangle.W}, {brand.Rectangle.H}");
}
```

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 return the name of each detected brand with a confidence equal to or higher than 75 percent.	<input type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-left corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
The code will return the name of each detected brand with a confidence equal to or higher than 75 percent.	<input checked="" type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-left corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input checked="" type="radio"/>
The code will return coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input checked="" type="radio"/>

NEW QUESTION 99

DRAG DROP - (Topic 3)

You plan to build a chatbot to support task tracking.

You create a Conversational Language Understanding service named lu1.

You need to build a Conversational Language Understanding model to Integrate into the chatbot. The solution must minimize development time to build the model. 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.

Actions	Answer Area
Add the prebuilt domain ToDo.	
Add a new application.	
Add example utterances.	
Train the application.	
Publish the application.	

- A. Mastered  
 B. Not Mastered

**Answer: A**

**Explanation:**

Actions	Answer Area
Add the prebuilt domain ToDo.	
Add a new application.	
Add example utterances.	
Train the application.	
Publish the application.	

#### NEW QUESTION 104

- (Topic 3)

You are building a bot on a local computer by using the Microsoft Bot Framework. The bot will use an existing Language Understanding model. You need to translate the Language Understanding model locally by using the Bot Framework CLI. What should you do first?

- A. From the Language Understanding portal, clone the model.  
 B. Export the model as an .lu file.  
 C. Create a new Speech service.  
 D. Create a new Language Understanding service.

**Answer: B**

**Explanation:**

You might want to manage the translation and localization for the language understanding content for your bot independently.

Translate command in the @microsoft/bf-lu library takes advantage of the Microsoft text translation API to automatically machine translate .lu files to one or more than 60+ languages supported by the Microsoft text translation cognitive service.

What is translated?

An .lu file and optionally translate Comments in the lu file LU reference link texts

List of .lu files under a specific path.

Reference:

<https://github.com/microsoft/botframework-cli/blob/main/packages/luis/docs/translate-command.md>

#### NEW QUESTION 107

- (Topic 3)

You are training a Language Understanding model for a user support system.

You create the first intent named GetContactDetails and add 200 examples. You need to decrease the likelihood of a false positive.

What should you do?

- A. Enable active learning.  
 B. Add a machine learned entity.  
 C. Add additional examples to the GetContactDetails intent.  
 D. Add examples to the None intent.

**Answer: A**

**Explanation:**

Active learning is a technique of machine learning in which the machine learned model is used to identify informative new examples to label. In LUIS, active learning refers to adding utterances from the endpoint traffic whose current predictions are unclear to improve your model.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-glossary>

#### NEW QUESTION 111

DRAG DROP - (Topic 3)

You are building an app that will scan confidential documents and use the Language service to analyze the contents.

You provision an Azure Cognitive Services resource.

You need to ensure that the app can make requests to the Language service endpoint. The solution must ensure that confidential documents remain on-premises.

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
Pull an image from Docker Hub.	
Provision an on-premises Kubernetes cluster that has internet connectivity.	
Provision an Azure Kubernetes Service (AKS) resource.	
Run the container and specify an App ID and Client Secret.	
Provision an on-premises Kubernetes cluster that is isolated from the internet.	
Pull an image from the Microsoft Container Registry (MCR).	
Run the container and specify an API key and the Endpoint URL of the Cognitive Services resource.	

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Actions	Answer Area
Pull an image from Docker Hub.	Provision an on-premises Kubernetes cluster that is isolated from the internet.
Provision an on-premises Kubernetes cluster that has internet connectivity.	
Provision an Azure Kubernetes Service (AKS) resource.	Pull an image from the Microsoft Container Registry (MCR).
Run the container and specify an App ID and Client Secret.	Run the container and specify an API key and the Endpoint URL of the Cognitive Services resource.
Provision an on-premises Kubernetes cluster that is isolated from the internet.	
Pull an image from the Microsoft Container Registry (MCR).	
Run the container and specify an API key and the Endpoint URL of the Cognitive Services resource.	

#### NEW QUESTION 115

- (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 change the chitchat source to qna\_chitchat\_professional.tsv. and then retrain and republish the model. Does this meet the goal?

- A. Yes  
 B. No

**Answer:** A

#### NEW QUESTION 119

- (Topic 3)

You are building a solution that will detect anomalies in sensor data from the previous 24 hours.

You need to ensure that the solution scans the entire dataset, at the same time, for anomalies.

Which type of detection should you use?

- A. batch  
 B. streaming  
 C. change point

**Answer:** A

**Explanation:**

Batch anomaly detection is a type of anomaly detection that scans the entire dataset at once for outliers and unusual patterns. Batch anomaly detection is suitable for offline analysis of historical data, such as sensor data from the previous 24 hours. Batch anomaly detection can use various techniques, such as statistical methods, machine learning methods, or hybrid methods, to identify anomalies in the data123.

#### NEW QUESTION 123

- (Topic 3)

You are building an app that will share user images.

You need to configure the app to perform the following actions when a user uploads an image:

- Categorize the image as either a photograph or a drawing.
- Generate a caption for the image.

The solution must minimize development effort.

Which two services should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. object detection in Computer Vision  
 B. content tags in Computer Vision  
 C. image descriptions in Computer Vision  
 D. image type detection in Computer Vision  
 E. image classification in Custom Vision

**Answer:** CD

**Explanation:**

? According to the Microsoft documentation, Computer Vision is a cloud-based service that provides developers with access to advanced algorithms for processing images and returning information. By uploading an image or specifying an image URL, Computer Vision algorithms can analyze visual content in different ways based on inputs and user choices.

? According to the Microsoft documentation, image type detection is one of the features of Computer Vision that can categorize an image as either a photograph or a drawing. You can use the image type detection feature by calling the Analyze Image API with the visualFeatures parameter set to ImageType. The API will return a JSON response with an imageType field that indicates whether the image is a photo or a clipart.

? According to the Microsoft documentation, image descriptions is another feature of Computer Vision that can generate a caption for an image. You can use the image descriptions feature by calling the Analyze Image API with the visualFeatures parameter set to Description. The API will return a JSON response with a description field that contains a list of captions for the image, each with a confidence score.

? Therefore, by using these two features of Computer Vision, you can achieve your app requirements with minimal development effort. You don't need to use any other services, such as object detection, content tags, or Custom Vision, which are designed for different purposes.

**NEW QUESTION 124**

- (Topic 3)

You have an Azure subscription that contains an Azure App Service app named App1. You provision a multi-service Azure Cognitive Services resource named CSAccount1.

You need to configure App1 to access CSAccount1. The solution must minimize administrative effort.

What should you use to configure App1?

- A. a system-assigned managed identity and an X.509 certificate
- B. the endpoint URI and an OAuth token
- C. the endpoint URI and a shared access signature (SAS) token
- D. the endpoint URI and subscription key

**Answer:** D

**NEW QUESTION 125**

- (Topic 3)

Which Azure Storage service implements the key/value model?

- A. Azure Files
- B. Azure Blob
- C. Azure Table
- D. Azure Queue

**Answer:** C

**NEW QUESTION 127**

- (Topic 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")

**Answer:** B

**Explanation:**

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>

**NEW QUESTION 130**

HOTSPOT - (Topic 3)

You have an Azure subscription that contains an Azure AI Document Intelligence resource named DM.

You build an app named App1 that analyzes PDF files for handwritten content by using DM.

You need to ensure that App1 will recognize the handwritten content.

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**

```
Uri fileUri = new Uri("<fileUri>");

AnalyzeDocumentOperation operation = await client.AnalyzeDocumentFromUriAsync(WaitUntil.Completed,
AnalyzeResult result = operation.Value;
foreach (DocumentStyle style in result.Styles)
{
    bool isHandwritten = style.IsHandwritten.HasValue && style.IsHandwritten == true;
    if (isHandwritten && style.Confidence > 0.75 )
    {

        Console.WriteLine($"Handwritten content found:");
        foreach (DocumentSpan span in style.Spans)
        {
            Console.WriteLine($" Content: {result.Content.Substring(span.Index, span.Length)}");
        }
    }
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

```
Uri fileUri = new Uri("<fileUri>");

AnalyzeDocumentOperation operation = await client.AnalyzeDocumentFromUriAsync(WaitUntil.Completed,
AnalyzeResult result = operation.Value;
foreach (DocumentStyle style in result.Styles)
{
    bool isHandwritten = style.IsHandwritten.HasValue && style.IsHandwritten == true;
    if (isHandwritten && style.Confidence > 0.75 )
    {

        Console.WriteLine($"Handwritten content found:");
        foreach (DocumentSpan span in style.Spans)
        {
            Console.WriteLine($" Content: {result.Content.Substring(span.Index, span.Length)}");
        }
    }
}
```

**NEW QUESTION 133**

- (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 create a web app named app1 that runs on an Azure virtual machine named vm1. Vm1 is on an Azure virtual network named vnet1.

You plan to create a new Azure Cognitive Search service named service1.

You need to ensure that app1 can connect directly to service1 without routing traffic over the public internet.

Solution: You deploy service1 and a public endpoint, and you configure a network security group (NSG) for vnet1.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

<https://docs.microsoft.com/en-us/azure/virtual-network/network-security-groups-overview#network-security-groups>  
<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-overview>

**NEW QUESTION 138**

HOTSPOT - (Topic 3)



Select the answer that correctly completes the sentence.

Answer Area

When provisioning an Azure Cosmos DB  , you need to specify which type of API you will use.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:


Answer Area

When provisioning an Azure Cosmos DB  , you need to specify which type of API you will use.


NEW QUESTION 140

HOTSPOT - (Topic 3)

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.

```
var audioFormat =  (AudioStreamContainerFormat.MP3);

var speechConfig = SpeechConfig.FromSubscription("18c51a87-3a69-47a8-aedc-a54745f708a1", "westus");
var audioConfig = AudioConfig.FromStreamInput(pushStream, audioFormat);

using (var recognizer = new  (speechConfig, audioConfig))

{
    var result = await recognizer.RecognizeOnceAsync();
    var text = result.Text;
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 142

- (Topic 3)

You have data saved in the following format.

```
FirstName,LastName,Age,LeisureHobby,SportsHobby
John,Smith,23,Reading,Basketball
Ben,Smith,21,Guitar,Curling
```

Which format was used?

- A. CSV
- B. JSON
- C. HTML
- D. YAML

Answer: A

NEW QUESTION 147

- (Topic 3)

You are building a social media extension that will convert text to speech. The solution must meet the following requirements:

- Support messages of up to 400 characters.
- Provide users with multiple voice options.
- Minimize costs.

You create an Azure Cognitive Services resource.

Which Speech API endpoint provides users with the available voice options?

- A. <https://uksouth.customvoice.apispeech.microsoft.com/api/texttospeech/v3.0/longaudiosynt hesis/voices>
- B. <https://uksouth.tts.speech.microsoft.com/cognitiveservices/voices/list>
- C. <https://uksouth.voice.speech.microsoft.com/cognitiveservices/v1?deploymentId={deploymentId}>
- D. <https://uksouth.api.cognitive.microsoft.com/speechtotext/v3.0/models/base>

**Answer: B**

#### NEW QUESTION 150

- (Topic 3)

You develop a Conversational Language Understanding model by using Language Studio

During testing, users receive incorrect responses to requests that do NOT relate to the capabilities of the model.

You need to ensure that the model identifies spurious requests. What should you do?

- A. Enable active learning.
- B. Add examples to the custom intents.
- C. Add examples to the None intent
- D. Add entities.

**Answer: A**

#### NEW QUESTION 154

- (Topic 3)

Which scenario is an example of a streaming workload?

- A. sending transactions daily from point of sale (POS) devices
- B. sending cloud infrastructure metadata every 30 minutes
- C. sending transactions that are older than a month to an archive
- D. sending telemetry data from edge devices

**Answer: D**

#### NEW QUESTION 157

HOTSPOT - (Topic 3)

A1 You have an Azure OpenAI resource named AH that hosts three deployments of the GPT 3.5 model. Each deployment is optimized for a unique workload.

You plan to deploy three apps. Each app will access AM by using the REST API and will use the deployment that was optimized for the apps intended workload.

You need to provide each app with access to AM and the appropriate deployment. The solution must ensure that only the apps can access AM.

What should you use to provide access to AM. and what should each app use to connect to its appropriate deployment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Provide access to AI1 by using:

Connect to the deployment by using:

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Answer Area**

Provide access to AI1 by using:

Connect to the deployment by using:

**NEW QUESTION 162**

- (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 165**

- (Topic 3)

You are building a language model by using a Language Understanding service. You create a new Language Understanding resource.

You need to add more contributors. What should you use?

- A. a conditional access policy in Azure Active Directory (Azure AD)
- B. the Access control (IAM) page for the authoring resources in the Azure portal
- C. the Access control (IAM) page for the prediction resources in the Azure portal

**Answer:** B

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-how-to-collaborate>

**NEW QUESTION 167**

- (Topic 3)

You are building a multilingual chatbot.

You need to send a different answer for positive and negative messages.

Which two Text Analytics APIs should you use? Each correct answer presents part of the solution. (Choose two.)

NOTE: Each correct selection is worth one point.

- A. Linked entities from a well-known knowledge base
- B. Sentiment Analysis
- C. Key Phrases
- D. Detect Language
- E. Named Entity Recognition

**Answer:** BD

**Explanation:**

B: The Text Analytics API's Sentiment Analysis feature provides two ways for detecting positive and negative sentiment. If you send a Sentiment Analysis request, the API will return sentiment labels (such as "negative", "neutral" and "positive") and confidence scores at the sentence and document-level.

D: The Language Detection feature of the Azure Text Analytics REST API evaluates text input for each document and returns language identifiers with a score that indicates the strength of the analysis.

This capability is useful for content stores that collect arbitrary text, where language is unknown. Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-sentiment-analysis?tabs=version-3-1>

<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-language-detection>

**NEW QUESTION 170**

DRAG DROP - (Topic 3)

You plan to use a Language Understanding application named app1 that is deployed to a container.

App1 was developed by using a Language Understanding authoring resource named lu1. App1 has the versions shown in the following table.

Version	Trained date	Published date
V1.2	None	None
V1.1	2020-10-01	None
V1.0	2020-09-01	2020-09-15

You need to create a container that uses the latest deployable version of app1.

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. (Choose three.)



Actions

Answer Area

- Run a container that has version set as an environment variable.
- Export the model by using the Export as JSON option.
- Select v1.1 of app1.
- Run a container and mount the model file.
- Select v1.0 of app1.
- Export the model by using the Export for containers (GZIP) option.
- Select v1.2 of app1.

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Step 1: Export the model using the Export for containers (GZIP) option. Export versioned app's package from LUIS portal  
The versioned app's package is available from the Versions list page.  
? Sign on to the LUIS portal.  
? Select the app in the list.  
? Select Manage in the app's navigation bar.  
? Select Versions in the left navigation bar.  
? Select the checkbox to the left of the version name in the list.  
? Select the Export item from the contextual toolbar above the list.  
? Select Export for container (GZIP).  
? The package is downloaded from the browser.



Step 2: Select v1.1 of app1.  
A trained or published app packaged as a mounted input to the container with its associated App ID.  
Step 3: Run a contain and mount the model file.  
Run the container, with the required input mount and billing settings.

NEW QUESTION 175

DRAG DROP - (Topic 3)

You are building a retail chatbot that will use a QnA Maker service.  
You upload an internal support document to train the model. The document contains the following question: "What is your warranty period?"  
Users report that the chatbot returns the default QnA Maker answer when they ask the following question: "How long is the warranty coverage?"  
The chatbot returns the correct answer when the users ask the following question: "What is your warranty period?"  
Both questions should return the same answer.  
You need to increase the accuracy of the chatbot responses.  
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. (Choose three.)

Actions	Answer Area
Add a new question and answer (QnA) pair.	
Retrain the model.	
Add additional questions to the document.	
Republish the model.	
Add alternative phrasing to the question and answer (QnA) pair.	

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Step 1: Add alternative phrasing to the question and answer (QnA) pair.  
Add alternate questions to an existing QnA pair to improve the likelihood of a match to a user query.  
Step 2: Retrain the model.  
Periodically select Save and train after making edits to avoid losing changes. Step 3: Republish the model  
Note: A knowledge base consists of question and answer (QnA) pairs. Each pair has one answer and a pair contains all the information associated with that answer.

NEW QUESTION 180

- (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 184

HOTSPOT - (Topic 3)  
You are building a solution that students will use to find references for essays. You use the following code to start building the solution.

```
using Azure;
using System;
using Azure.AI.TextAnalytics;

private static readonly AzureKeyCredential credentials = new AzureKeyCredential("<key>");
private static readonly Uri endpoint = new Uri("<endpoint>");

static void EntityLinker(TextAnalyticsClient client)
{
    var response = client.RecognizeLinkedEntities(
        "Our tour guide took us up the Space Needle during our trip to Seattle last week.");
}
```

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 detect the language of documents.	<input type="radio"/>	<input type="radio"/>
The uri attribute returned for each linked entity will be a Bing search link.	<input type="radio"/>	<input type="radio"/>
The matches attribute returned for each linked entity will provide the location in a document where the entity is referenced.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
The code will detect the language of documents.	<input type="radio"/>	<input checked="" type="radio"/>
The <code>url</code> attribute returned for each linked entity will be a Bing search link.	<input checked="" type="radio"/>	<input type="radio"/>
The <code>matches</code> attribute returned for each linked entity will provide the location in a document where the entity is referenced.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 186**

HOTSPOT - (Topic 3)

Select the answer that correctly completes the sentence.

Answer Area

is responsible for identifying which business rules must be applied to the data of a company.

A data analyst

A data engineer

A data scientist

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

is responsible for identifying which business rules must be applied to the data of a company.

A data analyst

A data engineer

A data scientist

**NEW QUESTION 187**

- (Topic 3)

You are building an Azure WebJob that will create knowledge bases from an array of URLs.

You instantiate a `QnAMakerClient` object that has the relevant API keys and assign the object to a variable named `client`.

You need to develop a method to create the knowledge bases.

Which two actions should you include in the method? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create a list of `FileDTO` objects that represents data from the WebJob.  
B. Call the `client`  
C. Knowledgebase  
D. `CreateAsync` method.  
E. Create a list of `QnADTO` objects that represents data from the WebJob.  
F. Create a `CreateKbDTO` object.

**Answer:** AC

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/rest/api/cognitiveservices-qnamaker/qnamaker4.0/knowledgebase/create>

**NEW QUESTION 192**

HOTSPOT - (Topic 3)

Select the answer that correctly completes the sentence.

Answer Area

When using the Azure Cosmos DB Gremlin API, the container resource type is projected as a

graph.

table.

partition key.

document.

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

When using the Azure Cosmos DB Gremlin API, the container resource type is projected as a

graph.

table.

partition key.

document.



**NEW QUESTION 196**

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

The

ALTER

JOIN

SET

WHERE

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

**NEW QUESTION 198**

HOTSPOT - (Topic 3)

You have a Computer Vision resource named contoso1 that is hosted in the West US Azure region.

You need to use contoso1 to make a different size of a product photo by using the smart cropping feature.

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

NOTE: Each correct selection is worth one point.

```
curl -H "Ocp-Apim-Subscription-Key: xxx" /  
-o "sample.png" -H "Content-Type: application/json" /  
?width=100&height=100&smartCropping=true" /  
-d "{\"url\":\"https://upload.litwareinc.org/litware/bicycle.jpg\"}"
```

"/vision/v3.1/"

"https://api.projectoxford.ai"

"https://contoso1.cognitiveservices.azure.com"

"https://westus.api.cognitive.microsoft.com"

"?width=100&height=100&smartCropping=true"

areaOfInterest

detect

generateThumbnail

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

westus.api.cognitive.microsoft.com generateThumbnail  
<https://docs.microsoft.com/en-us/rest/api/computervision/3.1/generate-thumbnail/generate-thumbnail#examples>  
POST  
<https://westus.api.cognitive.microsoft.com/vision/v3.1/generateThumbnail?width=500&height=500&smartCropping=True>  
Ocp-Apim-Subscription-Key: {API key}

**NEW QUESTION 203**

- (Topic 3)

You build a Language Understanding model by using the Language Understanding portal. You export the model as a JSON file as shown in the following sample.

```
{
  "text": "average amount of rain by month at chicago last year",
  "intent": "Weather.CheckWeatherValue",
  "entities": [
    {
      "entity": "Weather.WeatherRange",
      "startPos": 0,
      "endPos": 6,
      "children": []
    },
    {
      "entity": "Weather.WeatherCondition",
      "startPos": 18,
      "endPos": 21,
      "children": []
    },
    {
      "entity": "Weather.Historic",
      "startPos": 23,
      "endPos": 30,
      "children": []
    }
  ]
}
```

To what does the Weather.Historic entity correspond in the utterance?

- A. by month
- B. chicago
- C. rain
- D. location

Answer: A

NEW QUESTION 208

DRAG DROP - (Topic 3)

You have a factory that produces cardboard packaging for food products. The factory has intermittent internet connectivity.

The packages are required to include four samples of each product.

You need to build a Custom Vision model that will identify defects in packaging and provide the location of the defects to an operator. The model must ensure that each package contains the four products.

Which project type and domain should you use? To answer, drag the appropriate options to the correct targets. Each option 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.

Options

Food

General

General (compact)

Image classification

Logo

Object detection

Answer Area

Project type:

Domain:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Options

Food

General

General (compact)

Image classification

Logo

Object detection

Answer Area

Project type:

Object detection

Domain:

Food

NEW QUESTION 213

- (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 random

questions that are outside the scope of the knowledge base.

You need to ensure that the chatbot provides formal responses to these spurious questions.

Solution: From Language Studio, you modify the question and answer pairs for the custom intents, and then retrain and republish the model.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 216

- (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 220

- (Topic 2)

You are developing the knowledgebase by using Azure Cognitive Search.

You need to meet the knowledgebase requirements for searching equivalent terms. What should you include in the solution?

- A. a synonym map
- B. a suggester
- C. a custom analyzer
- D. a built-in key phrase extraction skill

**Answer:** A

#### Explanation:

Within a search service, synonym maps are a global resource that associate equivalent terms, expanding the scope of a query without the user having to actually provide the term. For example, assuming "dog", "canine", and "puppy" are mapped synonyms, a query on "canine" will match on a document containing "dog".

Create synonyms: A synonym map is an asset that can be created once and used by many indexes.

Reference:

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

#### NEW QUESTION 225

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