

EXAM AI-102 TOPIC 1 QUESTION 1 DISCUSSION

DRAG DROP -

You have 100 chatbots that each has its own Language Understanding model.

Frequently, you must add the same phrases to each model.

You need to programmatically update the Language Understanding models to include the new phrases.

How should you complete the code? 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.

Select and Place:

Values	Answer Area
AddPhraseListAsync	var phraselistId = await client.Features.
Phraselist	(appId, versionId, new
PhraselistCreateObject	{
Phrases	EnabledForAllModels = false,
SavePhraselistAsync	IsExchangeable = true,
UploadPhraseListAsync	Name = "PL1",
	Phrases = "item1,item2,item3,item4,item5"
	});

Suggested Answer:

Values	Answer Area
AddPhraseListAsync	var phraselistId = await client.Features. AddPhraseListAsync
Phraselist	(appId, versionId, new PhraselistCreateObject
PhraselistCreateObject	{
Phrases	EnabledForAllModels = false,
SavePhraselistAsync	IsExchangeable = true,
UploadPhraseListAsync	Name = "PL1",
	Phrases = "item1,item2,item3,item4,item5"
	});

Box 1: AddPhraseListAsync -

Example: Add phraselist feature -

```
var phraselistId = await client.Features.AddPhraseListAsync(appId, versionId, new PhraselistCreateObject
{
    EnabledForAllModels = false,
    IsExchangeable = true,
    Name = "QuantityPhraselist",
    Phrases = "few,more,extra"
});
```

Box 2: PhraselistCreateObject -

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/client-libraries-rest-api>

by VT100 at June 1, 2021, 6:23 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 10 DISCUSSION

You successfully run the following HTTP request.

```
POST https://management.azure.com/subscriptions/18c51a87-3a69-47a8-aedc-a54745f708a1/resourceGroups/RG1/providers/  
Microsoft.CognitiveServices/accounts/contoso1/regenerateKey?api-version=2017-04-18  
Body>{"keyName": "Key2"}
```

What is the result of the request?

- A. A key for Azure Cognitive Services was generated in Azure Key Vault.
- B. A new query key was generated.
- C. The primary subscription key and the secondary subscription key were rotated.
- D. The secondary subscription key was reset.

Suggested Answer: D

Community vote distribution

D (92%)	8%
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by  LKK10 at June 6, 2021, 11:58 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 11 DISCUSSION

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.

NOTE: Each correct selection is worth one point.

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

Suggested Answer: ACF

Community vote distribution

ACF (87%)

13%

by  ovtchinnikov at May 16, 2022, 12:09 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 12 DISCUSSION

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.

Suggested Answer: ABF

Community vote distribution

ABF (95%)	5%
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by  [dasha2701](#) at Aug. 20, 2021, 8:56 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 13 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (93%) 4%

by  SuperPetey at Aug. 21, 2021, 9:46 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 14 DISCUSSION

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 to a new virtual network, and you configure Azure Private Link.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (79%)

A (21%)

by  guruaws2021 at Aug. 21, 2021, 11:23 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 15 DISCUSSION

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.

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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 an IP firewall rule.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Ab_S at Sept. 1, 2021, 6:17 p.m.

EXAM AI-102 TOPIC 1 QUESTION 16 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (100%)

by  [Derin_tade](#) at Sept. 16, 2021, 4:27 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 17 DISCUSSION

You plan to perform predictive maintenance.

You collect IoT sensor data from 100 industrial machines for a year. Each machine has 50 different sensors that generate data at one-minute intervals. In total, you have 5,000 time series datasets.

You need to identify unusual values in each time series to help predict machinery failures.

Which Azure service should you use?

- A. Anomaly Detector
- B. Cognitive Search
- C. Form Recognizer
- D. Custom Vision

Suggested Answer: A

Community vote distribution

A (100%)

by  satishk4u at May 3, 2022, 1:35 p.m.

EXAM AI-102 TOPIC 1 QUESTION 18 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

```
var audioFormat =   
  
  
  
  
var speechConfig = SpeechConfig.FromSubscription("18c51a87-3a69-47a8-aedc-a54745f708a1", "westus");  
  
var audioConfig = AudioConfig.FromStreamInput(pushStream, audioFormat);  
  
using (var recognizer = new   
  
  
  
{  
  
    var result = await recognizer.RecognizeOnceAsync();  
  
    var text = result.Text;  
  
}
```

Suggested Answer:

Answer Area

```
var audioFormat =   
  
  
  
  
var speechConfig = SpeechConfig.FromSubscription("18c51a87-3a69-47a8-aedc-a54745f708a1", "westus");  
  
var audioConfig = AudioConfig.FromStreamInput(pushStream, audioFormat);  
  
using (var recognizer = new   
  
  
  
{  
  
    var result = await recognizer.RecognizeOnceAsync();  
  
    var text = result.Text;  
  
}
```

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-use-codec-compressed-audio-input-streams?tabs=debian&pivots=programming-language-csharp>

by  htolajide at Sept. 21, 2021, 4:31 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 19 DISCUSSION

HOTSPOT -

You are developing an internet-based training solution for remote learners.

Your company identifies that during the training, some learners leave their desk for long periods or become distracted.

You need to use a video and audio feed from each learner's computer to detect whether the learner is present and paying attention. The solution must minimize development effort and identify each learner.

Which Azure Cognitive Services service should you use for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

From a learner's video feed, verify whether the learner is present:

Face
Speech
Text Analytics

From a learner's facial expression in the video feed, verify whether the learner is paying attention:

Face
Speech
Text Analytics

From a learner's audio feed, detect whether the learner is talking:

Face
Speech
Text Analytics

Answer Area

From a learner's video feed, verify whether the learner is present:

Face
Speech
Text Analytics

From a learner's facial expression in the video feed, verify whether the learner is paying attention:

Face
Speech
Text Analytics

From a learner's audio feed, detect whether the learner is talking:

Face
Speech
Text Analytics

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/what-are-cognitive-services>

by  htolajide at Sept. 21, 2021, 4:31 p.m.

EXAM AI-102 TOPIC 1 QUESTION 2 DISCUSSION

DRAG DROP -

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.

Select and Place:

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.

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

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.

1. Sign on to the LUIS portal.
2. Select the app in the list.
3. Select Manage in the app's navigation bar.
4. Select Versions in the left navigation bar.
5. Select the checkbox to the left of the version name in the list.
6. Select the Export item from the contextual toolbar above the list.
7. Select Export for container (GZIP).
8. The package is downloaded from the browser.

Versions ?

Rename	Clone	Export	All	Search for version(s)
Version name		Export as JSON Export for container (GZIP)	Created	Last modified
<input checked="" type="checkbox"/> 0.1 (Active & Production)		5/3/18	5/3/18	9/6/18

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.

Reference:

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

by  [kiassi1998](#) at April 24, 2022, 5:32 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 20 DISCUSSION

You plan to provision a QnA Maker service in a new resource group named RG1.

In RG1, you create an App Service plan named AP1.

Which two Azure resources are automatically created in RG1 when you provision the QnA Maker service? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Language Understanding
- B. Azure SQL Database
- C. Azure Storage
- D. Azure Cognitive Search
- E. Azure App Service

Suggested Answer: DE

Community vote distribution

DE (76%)	13%	8%
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by  weasel97 at Aug. 30, 2021, 12:53 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 21 DISCUSSION

You are building a language model by using a Language Understanding (classic) service.

You create a new Language Understanding (classic) 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

Suggested Answer: B

Community vote distribution

B (100%)

by  ArchMelody at Nov. 4, 2022, 10:11 a.m.

EXAM AI-102 TOPIC 1 QUESTION 22 DISCUSSION

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 migrate to a Cognitive Search service that uses a higher tier.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (77%)

B (23%)

by  [eham757](#) at April 29, 2022, 6:33 a.m.

EXAM AI-102 TOPIC 1 QUESTION 23 DISCUSSION

DRAG DROP -

You need to develop an automated call handling system that can respond to callers in their own language. The system will support only French and English.

Which Azure Cognitive Services service should you use to meet each requirement? To answer, drag the appropriate services to the correct requirements. Each service 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.

Select and Place:

Services	Answer Area
Speaker Recognition	
Speech to Text	Detect the incoming language: <input type="text"/>
Text Analytics	
Text to Speech	Respond in the callers' own language: <input type="text"/>
Translator	

Services	Answer Area
Speaker Recognition	
Speech to Text	
Suggested Answer: Text Analytics	Detect the incoming language: <input type="text"/>
Text Analytics	
Text to Speech	Respond in the callers' own language: <input type="text"/>
Translator	

Box 1: Text Analytics -

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.

Incorrect Answers:

Speaker Recognition which accurately verifies and identifies speakers by their unique voice characteristics.

Box 2: Translator -

Translator is a cloud-based neural machine translation service that is part of the Azure Cognitive Services family of REST APIs. Translator can be used with any operating system and powers many Microsoft products and services used by thousands of businesses worldwide to perform language translation and other language-related operations.

Reference:

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

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

 EXAM AI-102 TOPIC 1 QUESTION 24 DISCUSSION

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 StartRecognizeContentFromUri method
- B. the FormTrainingClient client and the StartRecognizeContentFromUri method
- C. the FormRecognizerClient client and the StartRecognizeReceiptsFromUri method
- D. the FormTrainingClient client and the StartRecognizeReceiptsFromUri method

Suggested Answer: C

Community vote distribution

C (100%)

by  [kiassi1998](#) at April 24, 2022, 6:54 p.m.

EXAM AI-102 TOPIC 1 QUESTION 25 DISCUSSION

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 Designer pipeline
- D. a new Cognitive Services resource that uses the S0 pricing tier

Suggested Answer: D

Community vote distribution

D (91%) 5%

by  [JTWang](#) at May 6, 2022, 2:39 a.m.

EXAM AI-102 TOPIC 1 QUESTION 26 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (86%)

14%

by  Eltooth at July 17, 2022, 1:08 p.m.

EXAM AI-102 TOPIC 1 QUESTION 27 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (100%)

by  Eltooth at July 16, 2022, 6:40 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 28 DISCUSSION

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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 private endpoint to vnet1.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (100%)

by  Eltooth at July 16, 2022, 6:40 a.m.

EXAM AI-102 TOPIC 1 QUESTION 29 DISCUSSION

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.

Suggested Answer: D

Community vote distribution

D (95%) 5%

by  JT Wang at May 6, 2022, 3:38 a.m.

EXAM AI-102 TOPIC 1 QUESTION 3 DISCUSSION

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

Suggested Answer: C

Community vote distribution

C (91%)	9%
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by  VT100 at June 1, 2021, 6:27 p.m.

EXAM AI-102 TOPIC 1 QUESTION 30 DISCUSSION

HOTSPOT -

You are building an app that will process incoming email and direct 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.

Hot Area:

Answer Area

<https://>

api.cognitive.microsofttranslator.com
eastus.api.cognitive.microsoft.com
portal.azure.com

/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

Suggested Answer:

Answer Area

<https://>

api.cognitive.microsofttranslator.com
eastus.api.cognitive.microsoft.com
portal.azure.com

/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

Box 1: api/cognitive.microsofttranslator.com is used for translations.

Incorrect:

eastus.api.cognitive.microsoft.com is used for Face recognition.

Portal.azure.com is the URL of the Azure portal which is a web-based, unified console that provides an alternative to command-line tools.

With the Azure portal, you can manage your Azure subscription using a graphical user interface. You can build, manage, and monitor everything from simple web apps to complex cloud deployments.

Box 2: /text/analytics/v3.1/entities/recognition/general

Named Entity Recognition -

The API returns a list of general named entities in a given document.

Request URL: [https://{endpoint}/text/analytics/v3.1/entities/recognition/general\[?model-version\]\[&showStats\]\[&loggingOptOut\]\[&stringIndexType\]](https://{endpoint}/text/analytics/v3.1/entities/recognition/general[?model-version][&showStats][&loggingOptOut][&stringIndexType])

Reference:

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

<https://westcentralus.dev.cognitive.microsoft.com/docs/services/TextAnalytics-v3-1/operations/EntitiesRecognitionGeneral>

by  mk1967 at Sept. 7, 2022, 10:45 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 31 DISCUSSION

You have an Azure Cognitive Search instance that indexes purchase orders by using Form Recognizer.

You need to analyze the extracted information by using Microsoft Power BI. The solution must minimize development effort.

What should you add to the indexer?

- A. a projection group
- B. a table projection
- C. a file projection
- D. an object projection

Suggested Answer: *B*

Community vote distribution

B (88%) 12%

by  [momentumhd](#) at Sept. 14, 2022, 8:55 a.m.

EXAM AI-102 TOPIC 1 QUESTION 32 DISCUSSION

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 replicas.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: A

Community vote distribution

A (100%)

by  [practicewizards](#) at Sept. 17, 2022, 3:47 p.m.

EXAM AI-102 TOPIC 1 QUESTION 33 DISCUSSION

SIMULATION -

You need to create a Text Analytics service named Text12345678, and then enable logging for Text12345678. The solution must ensure that any changes to

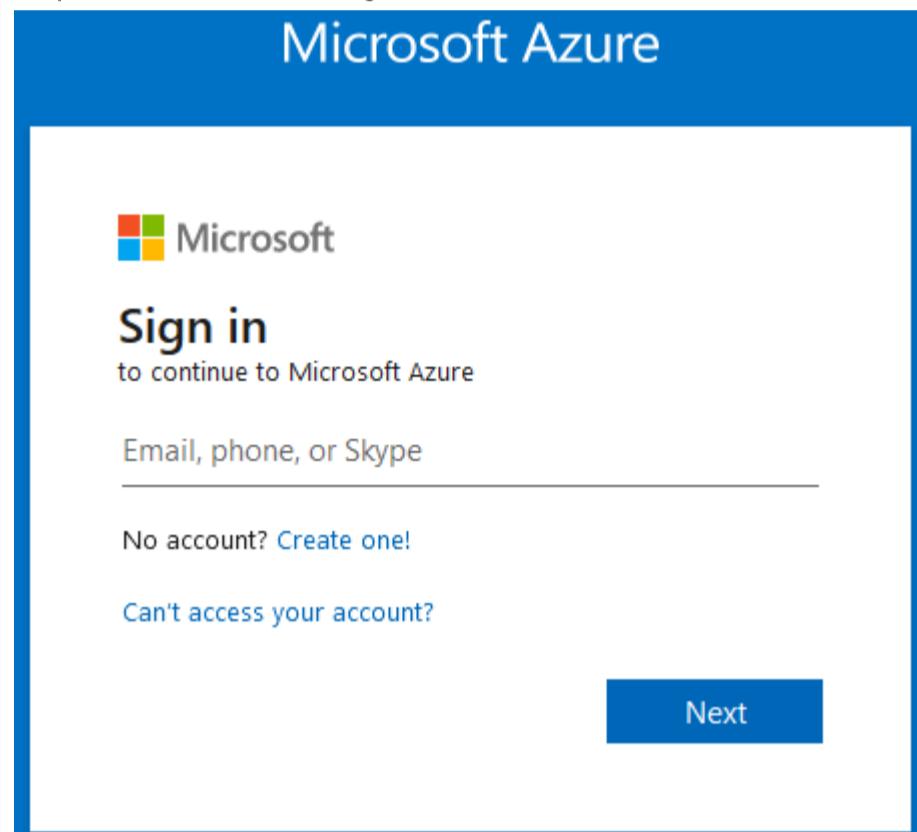
Text12345678 will be stored in a Log Analytics workspace.

To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Step 1: Sign in to the QnA portal.

Step 2: Create an Azure Cognitive multi-service resource:



Step 3: On the Create page, provide the following information.

Name: Text12345678 -

Create Cognitive Services

X

Basics Tags Review + create

Get access to Vision, Language, Search, and Speech Cognitive Services with a single API key. Quickly connect services together to achieve more insights into your content and easily integrate with other services like Azure Search. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Resource group * ⓘ

[Create new](#)

Instance details

Region * ⓘ



Location specifies the region only for included regional services. This does not specify a region for included non-regional services. [Click here for more details.](#)

Name * ⓘ

✓

Pricing tier * ⓘ

[View full pricing details](#)

By checking this box, I certify that use of this service is not by or for a police department in the United States.

I confirm I have read and understood the notice below.

[Review + create](#)

< Previous

Next : Tags >

Step 4: Configure additional settings for your resource as needed, read and accept the conditions (as applicable), and then select Review + create.

Step 5: Navigate to the Azure portal. Then locate and select The Text Analytics service resource Text12345678 (which you created in Step 4).

Step 6: Next, from the left-hand navigation menu, locate Monitoring and select Diagnostic settings. This screen contains all previously created diagnostic settings for this resource.

Step 7: Select + Add diagnostic setting.

Step 8: When prompted to configure, select the storage account and OMS workspace that you'd like to use to store your diagnostic logs.

Note: If you don't have a storage account or OMS workspace, follow the prompts to create one.

Step 9: Select Audit, RequestResponse, and AllMetrics. Then set the retention period for your diagnostic log data. If a retention policy is set to zero, events for that log category are stored indefinitely.

Step 10: Click Save.

It can take up to two hours before logging data is available to query and analyze. So don't worry if you don't see anything right away.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/cognitive-services-apis-create-account> <https://docs.microsoft.com/en-us/azure/cognitive-services/diagnostic-logging>

by [practicewizards](#) at Oct. 7, 2022, 6:44 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 34 DISCUSSION

SIMULATION -

You need to create a search service named search12345678 that will index a sample Azure Cosmos DB database named hotels-sample. The solution must ensure that only English language fields are retrievable.

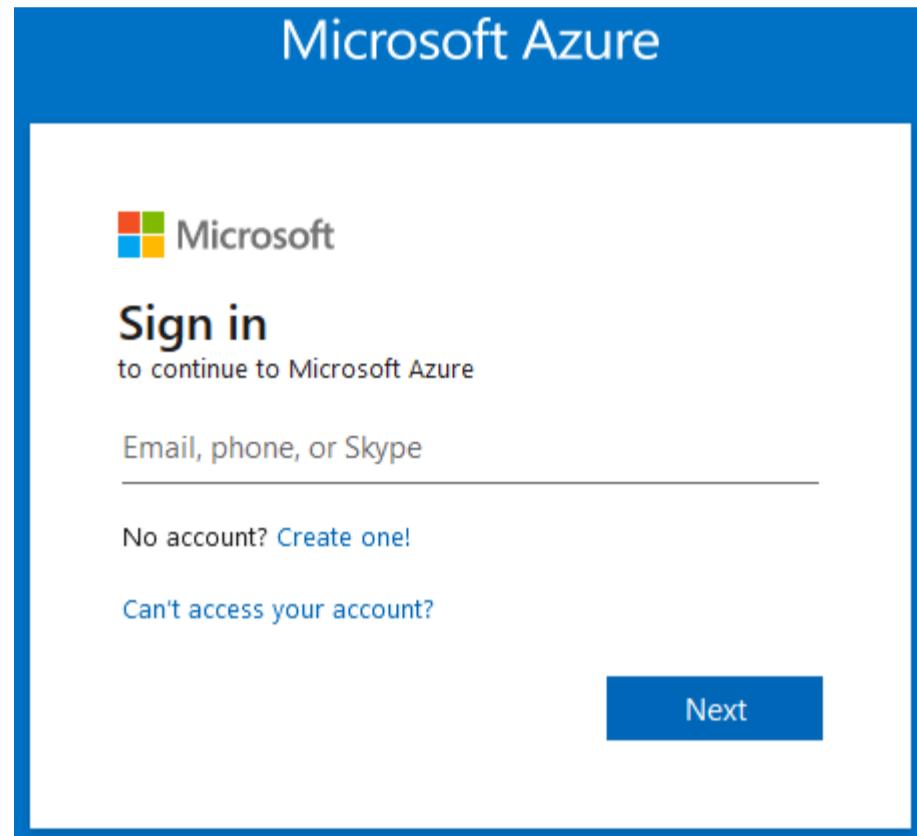
To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Part 1: Create a search service search12345678

Step 1: Sign in to the QnA portal.

Step 2: Create an Azure Cognitive multi-service resource:



Step 3: On the Create page, provide the following information.

Name: search12345678 -

Create Cognitive Services

X

Basics Tags Review + create

Get access to Vision, Language, Search, and Speech Cognitive Services with a single API key. Quickly connect services together to achieve more insights into your content and easily integrate with other services like Azure Search. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Resource group * ⓘ [Create new](#)

Instance details

Region * ⓘ West US 2

 Location specifies the region only for included regional services. This does not specify a region for included non-regional services. [Click here for more details.](#)

Name * ⓘ MyCognitiveServicesResource

Pricing tier * ⓘ

[View full pricing details](#)

By checking this box, I certify that use of this service is not by or for a police department in the United States.

I confirm I have read and understood the notice below.

[Review + create](#)

< Previous

Next : Tags >

Step 4: Click Review + create -

Part 2: Start the Import data wizard and create a data source

Step 5: Click Import data on the command bar to create and populate a search index.

   Refresh Delete Move

Step 6: In the wizard, click Connect to your data > Samples > hotels-sample. This data source is built-in. If you were creating your own data source, you would need to specify a name, type, and connection information. Once created, it becomes an "existing data source" that can be reused in other import operations.

Home > Microsoft.Search - Overview > my-new-search-service > Import data

Import data

Connect to your data Enrich content (Optional) Customize target index Create an indexer

Create and load a search index using data from an existing Azure data source in your current subscription. Azure Cognitive Search crawls the data structure you provide, extracts searchable content, optionally enriches it with cognitive skills, and loads it into an index. [Learn more](#)

Data Source	Type	Name
① Samples	② hotels-sample	realestate-us-sample

Step 7: Continue to the next page.

Step 8: Skip the "Enrich content" page

Step 9: Configure index.

Make sure English is selected for the fields.

Import data

Connect to your data Enrich content (Optional) **Customize target index*** Create an indexer

We provided a default index for you. You can delete the fields you don't need. Everything is editable, but once the index is built, deleting or changing existing fields will require re-indexing your documents.

Index name * ⓘ

hotels-sample-index

Key * ⓘ

HotelId

Suggerster name

sg

Search mode ⓘ

+ Add field + Add subfield ⌂ Delete

Field name	Type	Retrievable	Filterable	Sortable	Facetable	Searchable	Analyzer	Suggerster
HotelId	Edm.String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HotelName	Edm.String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Description	Edm.String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Step 10: Continue and finish the wizard.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/cognitive-services-apis-create-account> <https://docs.microsoft.com/en-us/azure/search/search-get-started-portal>

by  rdemontis at Nov. 1, 2023, 4:54 p.m.

EXAM AI-102 TOPIC 1 QUESTION 35 DISCUSSION

SIMULATION -

You plan to create a solution to generate captions for images that will be read from Azure Blob Storage.

You need to create a service in Azure Cognitive Services for the solution. The service must be named captions12345678 and must use the Free pricing tier.

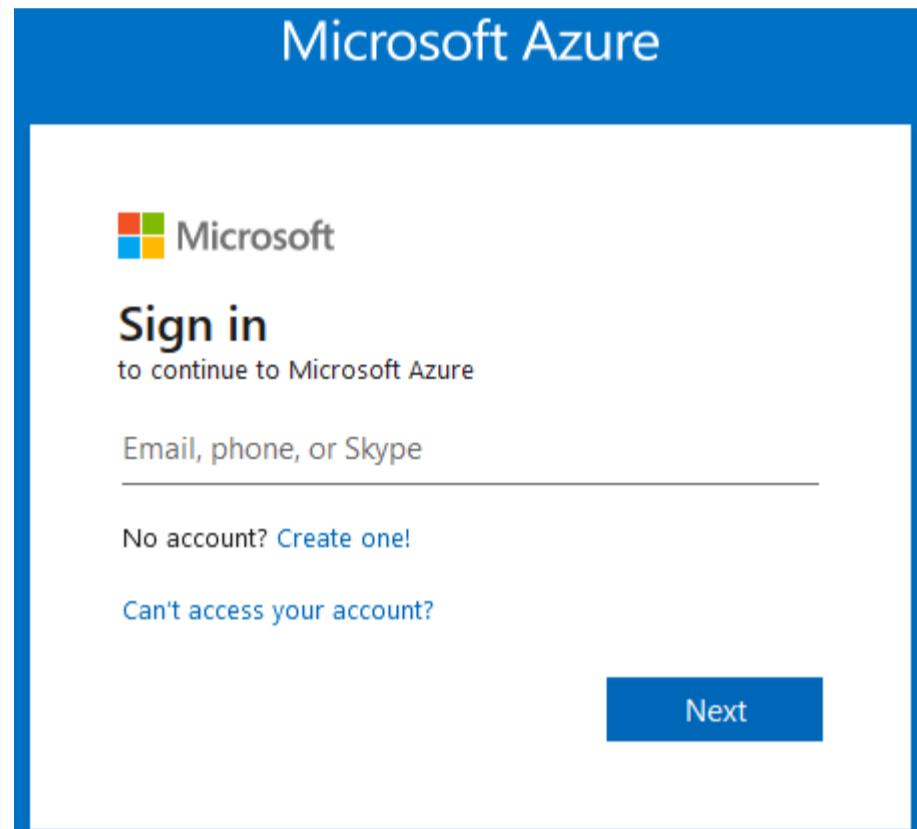
To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Part 1: Create a search service captions12345678

Step 1: Sign in to the QnA portal.

Step 2: Create an Azure Cognitive multi-service resource:



Step 3: On the Create page, provide the following information.

Name: captions12345678

Pricing tier: Free -

Create Cognitive Services

X

Basics Tags Review + create

Get access to Vision, Language, Search, and Speech Cognitive Services with a single API key. Quickly connect services together to achieve more insights into your content and easily integrate with other services like Azure Search. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Resource group * ⓘ

[Create new](#)

Instance details

Region * ⓘ



Location specifies the region only for included regional services. This does not specify a region for included non-regional services. [Click here for more details.](#)



Name * ⓘ

✓

Pricing tier * ⓘ

[View full pricing details](#)

By checking this box, I certify that use of this service is not by or for a police department in the United States.

I confirm I have read and understood the notice below.

[Review + create](#)

< Previous

Next : Tags >

Step 4: Click Review + create -

(Step 5: Create a data source

In Connect to your data, choose Azure Blob Storage. Choose an existing connection to the storage account and container you created. Give the data source a name, and use default values for the rest.)

[Dashboard](#) >

>

Import data

[...](#)

*Connect to your data

[Add cognitive skills \(Optional\)](#)[Customize target index](#)[Create an indexer](#)

Create and load a search index using data from an external data source. Azure Cognitive Search crawls the data structure you provide, extracts searchable content, optionally enriches it with cognitive skills, and loads it into an index. [Learn more](#)

Data Source



Azure Blob Storage



Data source name *

signs



Data to extract ⓘ

Content and metadata



Parsing mode

Default



Connection string *



DefaultEndpointsProtocol=https;AccountName=

[Choose an existing connection](#) Authenticate using managed identity ⓘ

Container name * ⓘ



signs



Blob folder ⓘ

your/folder/here

Description

(optional)

[Next: Add cognitive skills \(Optional\)](#)

Reference:

<https://docs.microsoft.com/en-us/azure/search/search-create-service-portal> <https://docs.microsoft.com/en-us/azure/search/cognitive-search-quickstart-ocr>

by [momentumhd](#) at Sept. 14, 2022, 9:46 a.m.

EXAM AI-102 TOPIC 1 QUESTION 36 DISCUSSION

SIMULATION -

You need to create a Form Recognizer resource named fr12345678.

Use the Form Recognizer sample labeling tool at <https://fott-2-1.azurewebsites.net/> to analyze the invoice located in the C:\Resources\Invoices folder.

Save the results as C:\Resources\Invoices\Results.json.

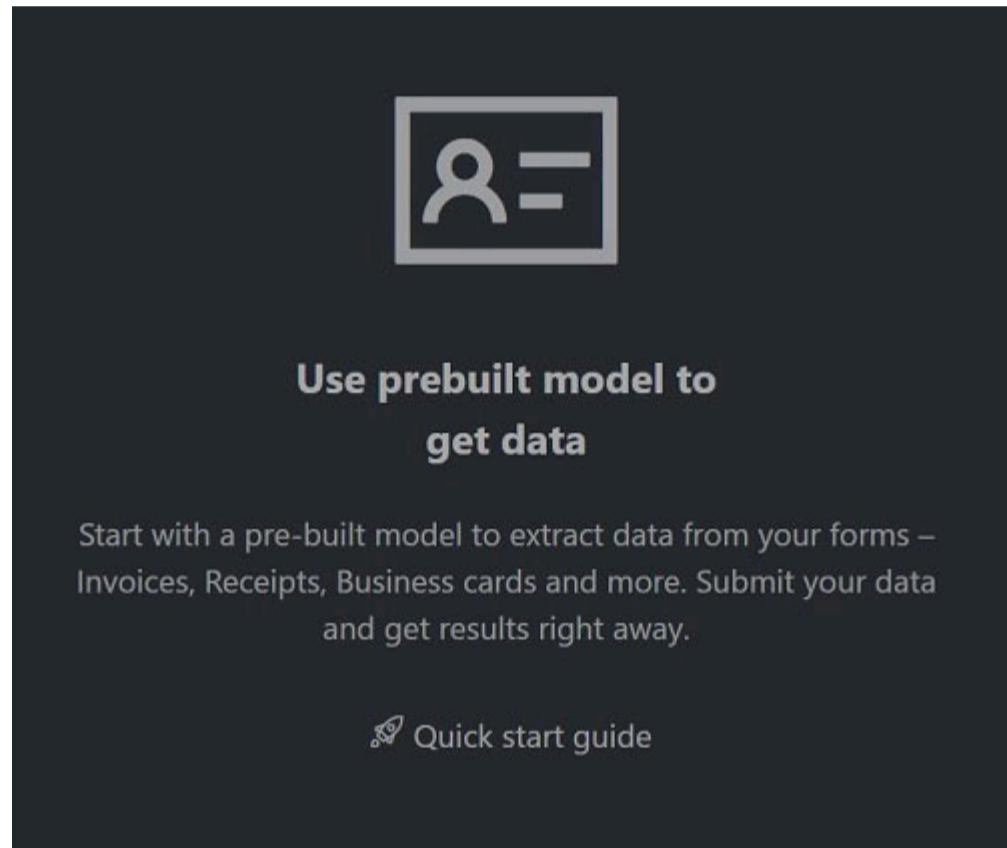
To complete this task, sign in to the Azure portal and open the Form Recognizer sample labeling tool.

Suggested Answer: See explanation below.

Step 1: Sign in to the Azure Portal.

Step 2: Navigate to the Form Recognizer Sample Tool (at <https://fott-2-1.azurewebsites.net/>)

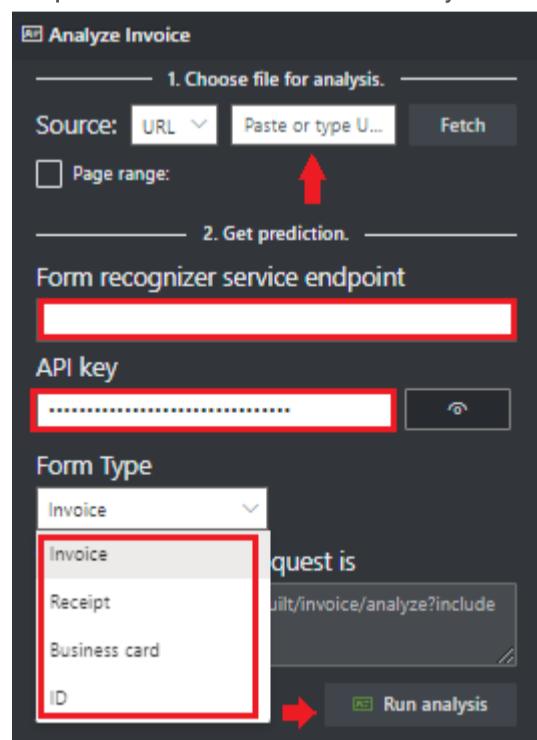
Step 3: On the sample tool home page select Use prebuilt model to get data.



Step 4: Select the Form Type you would like to analyze from the dropdown window.

Step 5: In the Source: URL field, paste the selected URL and select the Fetch button.

Step 6: In the Choose file for analysis use the file in the C:\Resources\Invoices folder and select the Fetch button.



Step 7: Select Run analysis. The Form Recognizer Sample Labeling tool will call the Analyze Prebuilt API and analyze the document.

Step 8: View the results - see the key-value pairs extracted, line items, highlighted text extracted and tables detected.

The screenshot shows the 'Prediction results' interface for an invoice document. On the left, the original document is displayed with various fields highlighted in yellow boxes. On the right, a detailed breakdown of the extracted data is shown in a table.

Page # / Field name / Value	Confidence
AmountDue	96.80%
text: \$610.00	
valueNumber: 610	
BillingAddress	95.10%
123 Bill St, Redmond WA, 98052	
BillingAddressRecipient	95.40%
Microsoft Finance	
CustomerAddress	95.10%
123 Other St, Redmond WA, 98052	
CustomerAddressRecipient	95.40%
Microsoft Corp	
CustomerID	96.10%
CID-12345	
CustomerName	94.60%
MICROSOFT CORPORATION	
DueDate	96.50%
text: 12/15/2019	
valueDate: 2019-12-15	
InvoiceDate	95.70%
text: 1/1/2019	
valueDate: 2019-11-15	
InvoiceId	97.00%
INV-100	
InvoiceTotal	96.70%
text: \$110.00	
valueNumber: 110	
Items	Nan
Click to view analyzed table	
PreviousUnpaidBalance	95.60%
text: \$500.00	
valueNumber: 500	
PurchaseOrder	95.20%
PO-5333	
RemittanceAddress	94.80%
123 Remit St New York, NY, 10001	

Step 9: Save the results as C:\Resources\Invoices\Results.json.

Reference:

<https://docs.microsoft.com/en-us/azure/applied-ai-services/form-recognizer/quickstarts/try-sample-label-tool>

by rdemontis at Nov. 1, 2023, 5:20 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 37 DISCUSSION

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)

Suggested Answer: A

Community vote distribution

A (42%) C (35%) B (23%)

by  momentumhd at Sept. 14, 2022, 10:06 a.m.

EXAM AI-102 TOPIC 1 QUESTION 38 DISCUSSION

You have an Azure Cognitive Search solution and a collection of blog posts that include a category field.

You need to index the posts. The solution must meet the following requirements:

- * Include the category field in the search results.
- * Ensure that users can search for words in the category field.
- * Ensure that users can perform drill down filtering based on category.

Which index attributes should you configure for the category field?

- A. searchable, sortable, and retrievable
- B. searchable, facetable, and retrievable
- C. retrievable, filterable, and sortable
- D. retrievable, facetable, and key

Suggested Answer: B

Community vote distribution

B (96%) 4%

by  Internal_Koala at Sept. 5, 2022, 3:33 a.m.

EXAM AI-102 TOPIC 1 QUESTION 39 DISCUSSION

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You plan to build an API that will identify whether an image includes a Microsoft Surface Pro or Surface Studio.

You need to deploy a service in Azure Cognitive Services for the API. The service must be named AAA12345678 and must be in the East US Azure region. The solution must use the Free pricing tier.

To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Step 1: In the Azure dashboard, click Create a resource.

Step 2: In the search bar, type "Cognitive Services."

You'll get information about the cognitive services resource and a legal notice. Click Create.

Step 3: You'll need to specify the following details about the cognitive service (refer to the image below for a completed example of this page):

Subscription: choose your paid or trial subscription, depending on how you created your Azure account.

Resource group: click create new to create a new resource group or choose an existing one.

Region: choose the Azure region for your cognitive service. Choose: East US Azure region.

Name: choose a name for your cognitive service. Enter: AAA12345678

Pricing Tier: Select: Free pricing tier

 Validation Passed

listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Basics

Subscription	Visual Studio Enterprise Subscription
Resource group	ocr-rg
Region	West Europe
Name	ocr-cognitive-service
Pricing tier	Standard S0

Identity

Identity type	None
---------------	------

Create

< Previous

Next

Download a template for automation

Step 4: Review and create the resource, and wait for deployment to complete. Then go to the deployed resource.

Note: The Computer Vision Image Analysis service can extract a wide variety of visual features from your images. For example, it can determine whether an image contains adult content, find specific brands or objects, or find human faces.

Tag visual features -

Identify and tag visual features in an image, from a set of thousands of recognizable objects, living things, scenery, and actions. When the tags are ambiguous or not common knowledge, the API response provides hints to clarify the context of the tag. Tagging isn't limited to the main subject, such as a person in the foreground, but also includes the setting (indoor or outdoor), furniture, tools, plants, animals, accessories, gadgets, and so on.

Try out the image tagging features quickly and easily in your browser using Vision Studio.

Reference:

<https://docs.microsoft.com/en-us/learn/modules/analyze-images-computer-vision/3-analyze-images> <https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-image-analysis>

by  dev2dev at Jan. 22, 2023, 10:05 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 4 DISCUSSION

Your company wants to reduce how long it takes for employees to log receipts in expense reports. All the receipts are in English. You need to extract top-level information from the receipts, such as the vendor and the transaction total. The solution must minimize development effort.

Which Azure service should you use?

- A. Custom Vision
- B. Personalizer
- C. Form Recognizer
- D. Computer Vision

Suggested Answer: C

Community vote distribution

C (100%)

by  [booofin](#) at June 20, 2022, 7:57 p.m.

EXAM AI-102 TOPIC 1 QUESTION 40 DISCUSSION

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You need to build an API that uses the service in Azure Cognitive Services named AAA12345678 to identify whether an image includes a Microsoft Surface Pro or

Surface Studio.

To achieve this goal, you must use the sample images in the C:\Resources\Images folder.

To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Step 1: In the Azure dashboard, click Create a resource.

Step 2: In the search bar, type "Cognitive Services."

You'll get information about the cognitive services resource and a legal notice. Click Create.

Step 3: You'll need to specify the following details about the cognitive service (refer to the image below for a completed example of this page):

Subscription: choose your paid or trial subscription, depending on how you created your Azure account.

Resource group: click create new to create a new resource group or choose an existing one.

Region: choose the Azure region for your cognitive service. Choose: East US Azure region.

Name: choose a name for your cognitive service. Enter: AAA12345678

Pricing Tier: Select: Free pricing tier

Step 4: Review and create the resource, and wait for deployment to complete. Then go to the deployed resource.

Note: The Computer Vision Image Analysis service can extract a wide variety of visual features from your images. For example, it can determine whether an image contains adult content, find specific brands or objects, or find human faces.

Tag visual features -

Identify and tag visual features in an image, from a set of thousands of recognizable objects, living things, scenery, and actions. When the tags are ambiguous or not common knowledge, the API response provides hints to clarify the context of the tag. Tagging isn't limited to the main subject, such as a person in the foreground, but also includes the setting (indoor or outdoor), furniture, tools, plants, animals, accessories, gadgets, and so on.

Try out the image tagging features quickly and easily in your browser using Vision Studio.

Reference:

<https://docs.microsoft.com/en-us/learn/modules/analyze-images-computer-vision/3-analyze-images> <https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-image-analysis>

EXAM AI-102 TOPIC 1 QUESTION 42 DISCUSSION

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You plan to analyze stock photography and automatically generate captions for the images.

You need to create a service in Azure to analyze the images. The service must be named caption12345678 and must be in the East US Azure region. The solution must use the Free pricing tier.

In the C:\Resources\Caption\Params.json folder, enter the value for Key 1 and the endpoint for the new service.

To complete this task, sign in to the Azure portal.

Suggested Answer: *1/4 See explanation below.*

Step 1: Provision a Cognitive Services resource

If you don't already have one in your subscription, you'll need to provision a Cognitive Services resource.

1. Open the Azure portal at <https://portal.azure.com>, and sign in using the Microsoft account associated with your Azure subscription.

2. Select the Create a resource button, search for cognitive services, and create a Cognitive Services resource with the following settings:

Subscription: Your Azure subscription

Resource group: Choose or create a resource group (if you are using a restricted subscription, you may not have permission to create a new resource group - use the one provided)

Region: East US Azure region -

Name: caption12345678 -

Pricing tier: Free F0 -

3. Select the required checkboxes and create the resource.

Wait for deployment to complete, and then view the deployment details.

4. When the resource has been deployed, go to it and view its Keys and Endpoint page. You will need the endpoint and one of the keys from this page in the next procedure.

Step 2: Save Key and Endpoint values in Params.json

Open the configuration file, C:\Resources\Caption\Params.json. and update the configuration values it contains to reflect the endpoint and an authentication key for your cognitive services resource. Save your changes.

Reference:

<https://microsoftlearning.github.io/AI-102-AIEngineer/Instructions/15-computer-vision.html>

EXAM AI-102 TOPIC 1 QUESTION 43 DISCUSSION

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You plan to build an application that will use caption12345678. The application will be deployed to a virtual network named VNet1.

You need to ensure that only virtual machines on VNet1 can access caption12345678.

To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Step 1: Create private endpoint for your web app

1. In the left-hand menu, select All Resources > caption12345678 - the name of your web app.

2. In the web app overview, select Settings > Networking.

3. In Networking, select Private endpoints.

4. Select + Add in the Private Endpoint connections page.

5. Enter or select the following information in the Add Private Endpoint page:

Name: Enter caption12345678.

Subscription Select your Azure subscription.

Virtual network Select VNet1.

Subnet: -

Integrate with private DNS zone: Select Yes.

6. Select OK.

Add Private Endpoint



Name *

mywebappendpoint



Subscription *

contoso subscription



Virtual network *

myVNet



Subnet *

mySubnet



! If you have a network security group (NSG) enabled for the subnet above, it will be disabled for private endpoints on this subnet only. Other resources on the subnet will still have NSG enforcement.

Integrate with private DNS zone ⓘ

No Yes

! Your private endpoint will be integrated with the private DNS zone 'privatelink.azurewebsites.net' in the resource group of the selected subnet. If the private DNS zone does not exist, it will be created automatically. [Learn more](#)

Reference:

<https://docs.microsoft.com/en-us/azure/private-link/tutorial-private-endpoint-webapp-portal>

by  [halfway](#) at Dec. 12, 2022, 8:53 a.m.

EXAM AI-102 TOPIC 1 QUESTION 44 DISCUSSION

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You need to ensure that a user named admin@abc.com can regenerate the subscription keys of AAA12345678. The solution must use the principle of least privilege.

To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Manually rotate subscription keys

1. (Update your application code to reference the secondary key for the Azure account and deploy.)
2. In the Azure portal, navigate to your Azure account.
3. Under Settings, select Authentication.
4. To regenerate the primary key for your Azure account, select the Regenerate button next to the primary key.
5. (Update your application code to reference the new primary key and deploy.)
6. Regenerate the secondary key in the same manner.

Reference:

<https://github.com/MicrosoftDocs/azure-docs/blob/main/articles/azure-maps/how-to-manage-authentication.md>

by  mgafar at April 19, 2023, 7:36 a.m.

EXAM AI-102 TOPIC 1 QUESTION 45 DISCUSSION

You have an Azure IoT hub that receives sensor 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 Learning
- D. Anomaly Detector

Suggested Answer: A

Community vote distribution

A (90%) 8%

by  Mike19D at April 19, 2023, 10:09 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 46 DISCUSSION

You have an app that analyzes images by using the Computer Vision API.

You need to configure the app to provide an output for users who are vision impaired. The solution must provide the output in complete sentences.

Which API call should you perform?

- A. readInputStreamAsync
- B. analyzeImagesByDomainInputStreamAsync
- C. tagImageInputStreamAsync
- D. describeImageInputStreamAsync

Suggested Answer: *D*

Community vote distribution

D (100%)

by  RAN_L at March 15, 2023, 10:38 a.m.

EXAM AI-102 TOPIC 1 QUESTION 47 DISCUSSION

DRAG DROP

You have a Custom Vision service project that performs object detection. The project uses the General domain for classification and contains a trained model.

You need to export the model for use on a network that is disconnected from the internet.

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

- Change the classification type.
- Export the model.
- Retrain the model.
- Change Domains to **General (compact)**.
- Create a new classification model.

Answer Area



Answer Area

- Change Domains to **General (compact)**.
- Retrain the model.
- Export the model.

Suggested Answer:

by RAN_L at March 15, 2023, 10:37 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 48 DISCUSSION

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 staff's 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.

Suggested Answer: A

Community vote distribution

A (94%)	6%
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by  973b658 at June 10, 2023, 10:14 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 49 DISCUSSION

You have an Azure subscription that contains a Language service resource named ta1 and a virtual network named vnet1.

You need to ensure that only resources in vnet1 can access ta1.

What should you configure?

- A. a network security group (NSG) for vnet1
- B. Azure Firewall for vnet1
- C. the virtual network settings for ta1
- D. a Language service container for ta1

Suggested Answer: C

Community vote distribution

C (100%)

by  Rob77 at May 10, 2023, 9:20 a.m.

EXAM AI-102 TOPIC 1 QUESTION 5 DISCUSSION

HOTSPOT -

You need to create a new resource that will be used to perform sentiment analysis and optical character recognition (OCR). The solution must meet the following requirements:

- Use a single key and endpoint to access multiple services.
- Consolidate billing for future services that you might use.
- Support the use of Computer Vision in the future.

How should you complete the HTTP request to create the new resource? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
https://management.azure.com/subscriptions/xxxxxxxx-xxxx-  
PATCH  
POST  
PUT  
  
xxxx-xxxx-  
xxxxxxxxxxxx/resourceGroups/RG1/providers/Microsoft.CognitiveServices/  
accounts/CS1?api-version=2017-04-18  
{  
    "location": "West US",  
    "kind": "  
        CognitiveServices  
        ComputerVision  
        TextAnalytics  
    ",  
    "sku": {  
        "name": "S0"  
    },  
    "properties": {},  
    "identity": {  
        "type": "SystemAssigned"  
    }  
}
```

Suggested Answer:

Answer Area

https://management.azure.com/subscriptions/xxxxxxxx-xxxx-
xxxx-xxxx-
xxxxxxxxxxxx/resourceGroups/RG1/providers/Microsoft.CognitiveServices/
accounts/CS1?api-version=2017-04-18
{
 "location": "West US",
 "kind": "
 CognitiveServices
 ComputerVision
 TextAnalytics
 ",
 "sku": {
 "name": "S0"
 },
 "properties": {},
 "identity": {
 "type": "SystemAssigned"
 }
}

Box 1: PUT -

Sample Request: PUT https://management.azure.com/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/test-rg/providers/

Microsoft.DeviceUpdate/accounts/contoso?api-version=2020-03-01-preview

Incorrect Answers:

PATCH is for updates.

Box 2: CognitiveServices -

Microsoft Azure Cognitive Services provide us to use its pre-trained models for various Business Problems related to Machine Learning.

List of Different Services are:

- ⇒ Decision
- ⇒ Language (includes sentiment analysis)
- ⇒ Speech
- ⇒ Vision (includes OCR)
- ⇒ Web Search

Reference:

<https://docs.microsoft.com/en-us/rest/api/deviceupdate/resourcemanager/accounts/create>

<https://www.analyticsvidhya.com/blog/2020/12/microsoft-azure-cognitive-services-api-for-ai-development/>

by  LKLK10 at June 6, 2021, 11:12 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 50 DISCUSSION

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

Suggested Answer: C

Community vote distribution

C (91%) 9%

by  mVic at May 22, 2023, 12:15 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 51 DISCUSSION

You have an app named App1 that uses an Azure Cognitive Services model to identify anomalies in a time series data stream.

You need to run App1 in a location that has limited connectivity. The solution must minimize costs.

What should you use to host the model?

- A. Azure Kubernetes Service (AKS)
- B. Azure Container Instances
- C. a Kubernetes cluster hosted in an Azure Stack Hub integrated system
- D. the Docker Engine

Suggested Answer: D

Community vote distribution

D (62%)	B (32%)	6%
---------	---------	----

by  Rob77 at May 9, 2023, 5:27 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 52 DISCUSSION

HOTSPOT

You have an Azure Cognitive Search resource named Search1 that is used by multiple apps.

You need to secure Search1. The solution must meet the following requirements:

- Prevent access to Search1 from the internet.
- Limit the access of each app to specific queries.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

To prevent access from the internet:

- Configure an IP firewall.
- Create a private endpoint.
- Use Azure roles.

To limit access to queries:

- Create a private endpoint.
- Use Azure roles.
- Use key authentication.

Answer Area

To prevent access from the internet:

- Configure an IP firewall.
- Create a private endpoint.
- Use Azure roles.

Suggested Answer:

To limit access to queries:

- Create a private endpoint.
- Use Azure roles.
- Use key authentication.

 EXAM AI-102 TOPIC 1 QUESTION 53 DISCUSSION

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 points

Suggested Answer: A

Community vote distribution

A (100%)

by  973b658 at June 14, 2023, 8:27 a.m.

EXAM AI-102 TOPIC 1 QUESTION 54 DISCUSSION

DRAG DROP

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

- 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.
- Provision an on-premises Kubernetes cluster that has internet connectivity.
- Pull an image from Docker Hub.
- Provision an Azure Kubernetes Service (AKS) resource.

Answer Area



Answer Area

- Pull an image from the Microsoft Container Registry (MCR).
- Provision an on-premises Kubernetes cluster that is isolated from the internet.
- Run the container and specify an API key and the Endpoint URL of the Cognitive Services resource.

Suggested Answer:

by  973b658 at June 14, 2023, 8:37 a.m.

EXAM AI-102 TOPIC 1 QUESTION 55 DISCUSSION

HOTSPOT

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 Management Portal interface. A dropdown menu is open under the 'Provider' section of the navigation bar. The menu contains several items: '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'. Below the provider dropdown, another dropdown menu is open, showing options: 'Microsoft.ApiManagement', 'Microsoft.CognitiveServices', 'Microsoft.ContainerService', and 'Microsoft.KeyVault'. The 'Microsoft.CognitiveServices' option is highlighted.

Answer Area

The screenshot shows the Azure Management Portal interface. A dropdown menu is open under the 'Provider' section of the navigation bar. The menu contains several items: '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'. Below the provider dropdown, another dropdown menu is open, showing options: 'Microsoft.ApiManagement', 'Microsoft.CognitiveServices', 'Microsoft.ContainerService', and 'Microsoft.KeyVault'. The 'Microsoft.CognitiveServices' option is highlighted.

Suggested Answer:

The screenshot shows the Azure Management Portal interface. A dropdown menu is open under the 'Provider' section of the navigation bar. The menu contains several items: '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'. Below the provider dropdown, another dropdown menu is open, showing options: 'Microsoft.ApiManagement', 'Microsoft.CognitiveServices', 'Microsoft.ContainerService', and 'Microsoft.KeyVault'. The 'Microsoft.CognitiveServices' option is highlighted.

by 973b658 at June 14, 2023, 8:38 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 56 DISCUSSION

You have an Azure subscription that contains an Anomaly Detector resource.

You deploy a Docker host server named Server1 to the on-premises network.

You need to host an instance of the Anomaly Detector service on Server1.

Which parameter should you include in the docker run command?

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

Suggested Answer: *B*

Community vote distribution

B (84%)	Other
---------	-------

by  973b658 at June 14, 2023, 10:58 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 57 DISCUSSION

You are building an app that will use the Speech service.

You need to ensure that the app can authenticate to the service by using a Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra, token.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Enable a virtual network service endpoint.
- B. Configure a custom subdomain.
- C. Request an X.509 certificate.
- D. Create a private endpoint.
- E. Create a Conditional Access policy.

Suggested Answer: *BD*

Community vote distribution

BD (75%)	BE (20%)	5%
----------	----------	----

by  sl_mslconsulting at Oct. 9, 2023, 12:09 a.m.

EXAM AI-102 TOPIC 1 QUESTION 58 DISCUSSION

HOTSPOT

You plan to deploy an Azure OpenAI resource by using an Azure Resource Manager (ARM) template.

You need to ensure that the resource can respond to 600 requests per minute.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
{  
    "type": "Microsoft.CognitiveServices/accounts/deployments",  
    "apiVersion": "2023-05-01",  
    "name": "arm-aoai-sample-resource/arm-je-std-deployment",  
    "dependsOn": [  
        "[resourceId('Microsoft.CognitiveServices/accounts', 'arm-aoai-sample-resource')]"  
    ],  
    "sku": {  
        "name": "Standard",  
        :  
            "capacity"  
            "count"  
            "maxValue"  
            "size"  
        :  
            1  
            60  
            100  
            600  
    },  
    "properties": {  
        "model": {  
            "format": "OpenAI",  
            ...  
        }  
    }  
}
```

Answer Area

```
{  
    "type": "Microsoft.CognitiveServices/accounts/deployments",  
    "apiVersion": "2023-05-01",  
    "name": "arm-aoai-sample-resource/arm-je-std-deployment",  
    "dependsOn": [  
        "[resourceId('Microsoft.CognitiveServices/accounts', 'arm-aoai-sample-resource')]"  
    ],  
    "sku": {  
        "name": "Standard",  
        "capacity": 100  
    },  
    "properties": {  
        "model": {  
            "format": "OpenAI",  
            ...  
        }  
    }  
}
```

Suggested Answer:

	:
"capacity"	100
"count"	1
"maxValue"	60
"size"	600

by  audlindr at Feb. 29, 2024, 5:25 p.m.

EXAM AI-102 TOPIC 1 QUESTION 59 DISCUSSION

DRAG DROP

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 AI Language. The solution must ensure that the managed feedback remains on your company's internal network.

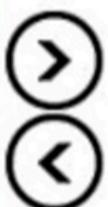
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

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

Actions

- Identify the Language service endpoint URL and query the prediction endpoint.
- Provision the Language service resource in Azure.
- Run the container and query the prediction endpoint.
- Deploy a Docker container to an on-premises server.
- Deploy a Docker container to an Azure container instance.

Answer Area



Answer Area	
Deploy a Docker container to an on-premises server.	
Suggested Answer:	Provision the Language service resource in Azure.
	Run the container and query the prediction endpoint.

by  Mehe323 at March 3, 2024, 6:21 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 6 DISCUSSION

You are developing a new sales system that will process the video and text from a public-facing website.

You plan to monitor the sales system to ensure that it provides equitable results regardless of the user's location or background.

Which two responsible AI principles provide guidance to meet the monitoring requirements? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

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

Suggested Answer: BC

Community vote distribution

BC (100%)

by  PHD_CHENG at April 29, 2022, 10:10 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 60 DISCUSSION

HOTSPOT

You have an Azure OpenAI resource named AI1 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 AI1 by using the REST API and will use the deployment that was optimized for the app's intended workload.

You need to provide each app with access to AI1 and the appropriate deployment. The solution must ensure that only the apps can access AI1.

What should you use to provide access to AI1, 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:

- An API key
- A bearer token
- A shared access signature (SAS) token

Connect to the deployment by using:

- An API key
- A deployment endpoint
- A deployment name
- A deployment type

Answer Area

Provide access to AI1 by using:

- An API key
- A bearer token**
- A shared access signature (SAS) token

Suggested Answer:

Connect to the deployment by using:

- An API key
- A deployment endpoint**
- A deployment name
- A deployment type

by [deleted] at March 2, 2024, 9:28 a.m.

EXAM AI-102 TOPIC 1 QUESTION 61 DISCUSSION

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

You start the bot on a local computer.

You need to validate the functionality of the bot.

What should you do before you connect to the bot?

- A. Run the Bot Framework Emulator.
- B. Run the Bot Framework Composer.
- C. Register the bot with Azure Bot Service.
- D. Run Windows Terminal.

Suggested Answer: A

Community vote distribution

A (100%)

by  Razvan_C at March 2, 2024, 10:35 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 62 DISCUSSION

You have an Azure OpenAI model named AI1.

You are building a web app named App1 by using the Azure OpenAI SDK.

You need to configure App1 to connect to AI1.

What information must you provide?

- A. the endpoint, key, and model name
- B. the deployment name, key, and model name
- C. the deployment name, endpoint, and key
- D. the endpoint, key, and model type

Suggested Answer: C

Community vote distribution

C (100%)

by  audlindr at March 2, 2024, 6:45 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 63 DISCUSSION

You are building a solution in Azure that will use Azure Cognitive Service for Language to process sensitive customer data.

You need to ensure that only specific Azure processes can access the Language service. The solution must minimize administrative effort.

What should you include in the solution?

- A. IPsec rules
- B. Azure Application Gateway
- C. a virtual network gateway
- D. virtual network rules

Suggested Answer: D

Community vote distribution

D (100%)

by  Harry300 at March 3, 2024, 10:41 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 64 DISCUSSION

You plan to perform predictive maintenance.

You collect IoT sensor data from 100 industrial machines for a year. Each machine has 50 different sensors that generate data at one-minute intervals. In total, you have 5,000 time series datasets.

You need to identify unusual values in each time series to help predict machinery failures.

Which Azure service should you use?

- A. Azure AI Computer Vision
- B. Cognitive Search
- C. Azure AI Document Intelligence
- D. Azure AI Anomaly Detector

Suggested Answer: D

Community vote distribution

D (100%)

by  Razvan_C at March 2, 2024, 10:44 p.m.

EXAM AI-102 TOPIC 1 QUESTION 65 DISCUSSION

HOTSPOT

You plan to deploy a containerized version of an Azure Cognitive Services service that will be used for sentiment analysis.

You configure https://contoso.cognitiveservices.azure.com as the endpoint URI for the service.

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.

Answer Area

```
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
```

Answer Area

```
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
```

Suggested Answer:

```
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
```

by  audlindr at March 2, 2024, 6:45 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 66 DISCUSSION

You are developing a system that will monitor temperature data from a data stream. The system must generate an alert in response to atypical values. The solution must minimize development effort.

What should you include in the solution?

- A. Multivariate Anomaly Detection
- B. Azure Stream Analytics
- C. metric alerts in Azure Monitor
- D. Univariate Anomaly Detection

Suggested Answer: *B*

Community vote distribution

B (42%) D (32%) C (24%) 3%

by  Mehe323 at March 3, 2024, 7:44 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 67 DISCUSSION

You have a Microsoft OneDrive folder that contains a 20-GB video file named File1.avi.

You need to index File1.avi by using the Azure Video Indexer website.

What should you do?

- A. Upload File1.avi to the www.youtube.com webpage, and then copy the URL of the video to the Azure AI Video Indexer website.
- B. Download File1.avi to a local computer, and then upload the file to the Azure AI Video Indexer website.
- C. From OneDrive, create a download link, and then copy the link to the Azure AI Video Indexer website.
- D. From OneDrive, create a sharing link for File1.avi, and then copy the link to the Azure AI Video Indexer website.

Suggested Answer: C

Community vote distribution

C (45%)	D (43%)	12%
---------	---------	-----

by  audlindr at March 2, 2024, 1:56 a.m.

EXAM AI-102 TOPIC 1 QUESTION 68 DISCUSSION

You have an Azure subscription that contains an Azure AI Service resource named CSAccount1 and a virtual network named VNet1. CSAccount1 is connected to VNet1.

You need to ensure that only specific resources can access CSAccount1. The solution must meet the following requirements:

- Prevent external access to CSAccount1.
- Minimize administrative effort.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. In VNet1, enable a service endpoint for CSAccount1.
- B. In CSAccount1, configure the Access control (IAM) settings.
- C. In VNet1, modify the virtual network settings.
- D. In VNet1, create a virtual subnet.
- E. In CSAccount1, modify the virtual network settings.

Suggested Answer: AE

Community vote distribution

AE (70%)	AB (24%)	5%
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by  [Ghill1982](#) at March 4, 2024, 9:22 p.m.

 EXAM AI-102 TOPIC 1 QUESTION 69 DISCUSSION

You are building an internet-based training solution. The solution requires that a user's camera and microphone remain enabled.

You need to monitor a video stream of the user and detect when the user asks an instructor a question. The solution must minimize development effort.

What should you include in the solution?

- A. speech-to-text in the Azure AI Speech service
- B. language detection in Azure AI Language Service
- C. the Face service in Azure AI Vision
- D. object detection in Azure AI Custom Vision

Suggested Answer: A

Community vote distribution

A (100%)

by  audlindr at March 2, 2024, 6:47 p.m.

EXAM AI-102 TOPIC 1 QUESTION 7 DISCUSSION

DRAG DROP -

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

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

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

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

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

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

Select and Place:

Actions	Answer Area
---------	-------------

Create a custom Dockerfile.

Pull the Anomaly Detector container image.

Distribute a docker run script.

Push the image to an Azure container registry.

Build the image.

Push the image to Docker Hub.

Suggested Answer:

Actions	Answer Area
---------	-------------

Create a custom Dockerfile.

Pull the Anomaly Detector container image.

Distribute a docker run script.

Push the image to an Azure container registry.

Build the image.

Push the image to Docker Hub.

Pull the Anomaly Detector container image.

Create a custom Dockerfile.

Push the image to an Azure container registry.

Distribute a docker run script.

Step 1: Pull the Anomaly Detector container image.

Step 2: Create a custom Dockerfile

Step 3: Push the image to an Azure container registry.

To push an image to an Azure Container registry, you must first have an image.

Step 4: Distribute the docker run script

Use the docker run command to run the containers.

Reference:

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-intro>

by  SamedKia at April 29, 2022, 9:24 a.m.

 EXAM AI-102 TOPIC 1 QUESTION 70 DISCUSSION

You have an Azure DevOps pipeline named Pipeline1 that is used to deploy an app. Pipeline1 includes a step that will create an Azure AI services account.

You need to add a step to Pipeline1 that will identify the created Azure AI services account. The solution must minimize development effort.

Which Azure Command-Line Interface (CLI) command should you run?

- A. az resource link
- B. az cognitiveservices account network-rule
- C. az cognitiveservices account show
- D. az account list

Suggested Answer: C

Community vote distribution

C (100%)

by  a8da4af at Nov. 3, 2024, 10:03 p.m.

EXAM AI-102 TOPIC 1 QUESTION 71 DISCUSSION

HOTSPOT

You have 1,000 scanned images of hand-written survey responses. The surveys do NOT have a consistent layout.

You have an Azure subscription that contains an Azure AI Document Intelligence resource named Aldoc1.

You open Document Intelligence Studio and create a new project.

You need to extract data from the survey responses. The solution must minimize development effort.

To where should you upload the images, and which type of model should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Upload to:

- An Azure Cosmos DB account
- An Azure Files share
- An Azure Storage account

Model type:

- Custom neural
- Custom template
- Identity document (ID)

Answer Area

Upload to:

- An Azure Cosmos DB account
- An Azure Files share
- An Azure Storage account

Suggested Answer:

Model type:

- Custom neural
- Custom template
- Identity document (ID)

by  a8da4af at Nov. 3, 2024, 10:09 p.m.

EXAM AI-102 TOPIC 1 QUESTION 8 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

```
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

Suggested Answer:

Answer Area

```
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

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.azure.com>. The endpoint for accessing the Text

Reference:

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

by  motu at June 7, 2021, 12:38 p.m.

EXAM AI-102 TOPIC 1 QUESTION 9 DISCUSSION

You have the following C# method for creating Azure Cognitive Services resources programmatically.

```
static void create_resource(CognitiveServicesManagementClient client, 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 = client.Accounts.Create(resource_group_name, account_tier,
parameters);
}
```

You need to call the method to create a free Azure resource in the West US Azure region. The resource will be used to generate captions of images automatically.

Which code should you use?

- A. create_resource(client, "res1", "ComputerVision", "F0", "westus")
- B. create_resource(client, "res1", "CustomVision.Prediction", "F0", "westus")
- C. create_resource(client, "res1", "ComputerVision", "S0", "westus")
- D. create_resource(client, "res1", "CustomVision.Prediction", "S0", "westus")

Suggested Answer: A

Community vote distribution

A (84%) B (16%)

by  Francesco1985 at July 5, 2021, 10:53 a.m.

EXAM AI-102 TOPIC 10 QUESTION 1 DISCUSSION

DRAG DROP -

You are developing a solution for the Management-Bookkeepers group to meet the document processing requirements. The solution must contain the following components:

- A Form Recognizer resource
- An Azure web app that hosts the Form Recognizer sample labeling tool

The Management-Bookkeepers group needs to create a custom table extractor by using the sample labeling tool.

Which three actions should the Management-Bookkeepers group perform in sequence? To answer, move the appropriate cmdlets from the list of cmdlets to the answer area and arrange them in the correct order.

Select and Place:

Actions	Answer Area
Train a custom model	
Label the sample documents	
Create a new project and load sample documents	
Create a composite model	

Suggested Answer:

Actions	Answer Area
	Create a new project and load sample documents
	Label the sample documents
	Train a custom model
Create a composite model	

Step 1: Create a new project and load sample documents

Create a new project. Projects store your configurations and settings.

Step 2: Label the sample documents

When you create or open a project, the main tag editor window opens.

Step 3: Train a custom model.

Finally, train a custom model.

Reference:

<https://docs.microsoft.com/en-us/azure/applied-ai-services/form-recognizer/label-tool>

by  Eltooth at July 20, 2022, 1:58 p.m.

 EXAM AI-102 TOPIC 10 QUESTION 2 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (98%)	2%
---------	----

by  [ANIKI1419](#) at June 14, 2022, 6:17 p.m.

EXAM AI-102 TOPIC 11 QUESTION 1 DISCUSSION

HOTSPOT -

You are planning the product creation project.

You need to build the REST endpoint to create the multilingual product descriptions.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

api.cognitive.microsofttranslator.com
api-nam.cognitive.microsofttranslator.com
westus.tts.speech.microsoft.com
wwics.cognitiveservices.azure.com/translator

?api-version=3.0&to=es&to=pt
/detect
/languages
/text-to-speech
/translate

Suggested Answer:

Answer Area

api.cognitive.microsofttranslator.com
api-nam.cognitive.microsofttranslator.com
westus.tts.speech.microsoft.com
wwics.cognitiveservices.azure.com/translator

?api-version=3.0&to=es&to=pt
/detect
/languages
/text-to-speech
/translate

Box 1: api.cognitive.microsofttranslator.com

Translator 3.0: Translate. Send a POST request to:

<https://api.cognitive.microsofttranslator.com/translate?api-version=3.0>

Box 2: /translate -

Reference:

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

by  SuperPetey at Aug. 27, 2021, 9:41 a.m.

EXAM AI-102 TOPIC 12 QUESTION 1 DISCUSSION

You need to develop an extract solution for the receipt images. The solution must meet the document processing requirements and the technical requirements.

You upload the receipt images to the Form Recognizer API for analysis, and the API returns the following JSON.

```
"documentResults": [
  {
    "docType": "prebuilt:receipt",
    "pageRange": [
      1,
      1
    ],
    "fields": {
      "ReceiptType": {
        "type": "string",
        "valueString": "Itemized",
        "confidence": 0.672
      },
      "MerchantName": {
        "type": "string",
        "valueString": "Tailwind",
        "text": "Tailwind",
        "boundingBox": [],
        "page": 1,
        "confidence": 0.913,
        "elements": [
          "#/readResults/0/lines/0/words/0"
        ]
      },
      ...
    }
  }
]
```

Which expression should you use to trigger a manual review of the extracted information by a member of the Consultant-Bookkeeper group?

- A. documentResults.docType == "prebuilt:receipt"
- B. documentResults.fields.*.confidence < 0.7
- C. documentResults.fields.ReceiptType.confidence > 0.7
- D. documentResults.fields.MerchantName.confidence < 0.7

Suggested Answer: B

Community vote distribution

B (100%)

by  ANIKI51419 at June 14, 2022, 6:24 p.m.

 EXAM AI-102 TOPIC 13 QUESTION 1 DISCUSSION

You are developing the smart e-commerce project.

You need to implement autocompletion as part of the Cognitive Search solution.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Make API queries to the autocomplete endpoint and include suggesterName in the body.
- B. Add a suggester that has the three product name fields as source fields.
- C. Make API queries to the search endpoint and include the product name fields in the searchFields query parameter.
- D. Add a suggester for each of the three product name fields.
- E. Set the searchAnalyzer property for the three product name variants.
- F. Set the analyzer property for the three product name variants.

Suggested Answer: ABF

Community vote distribution

ABF (100%)

by  Ravnit at Nov. 28, 2021, 2:35 a.m.

 EXAM AI-102 TOPIC 14 QUESTION 1 DISCUSSION

You are developing the document processing workflow.

You need to identify which API endpoints to use to extract text from the financial documents. The solution must meet the document processing requirements.

Which two API endpoints should you identify? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. /vision/v3.1/read/analyzeResults
- B. /formrecognizer/v2.0/custom/models/{modelId}/analyze
- C. /formrecognizer/v2.0/prebuilt/receipt/analyze
- D. /vision/v3.1/describe
- E. /vision/v3.1/read/analyze

Suggested Answer: BC

Community vote distribution

BC (52%) BE (23%) B (17%) 8%

by  Moody_L at June 3, 2022, 2:15 p.m.

EXAM AI-102 TOPIC 14 QUESTION 2 DISCUSSION

HOTSPOT -

You are developing the knowledgebase by using Azure Cognitive Search.

You need to build a skill that will be used by indexers.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

{

```
"@odata.type": "#Microsoft.Skills.Text.EntityRecognitionSkill",
  "categories": [],
  "categories": [ "Email", "Persons", "Organizations"],
  "categories": [ "Locations", "Persons", "Organizations"],

  "defaultLanguageCode": "en",
  "includeTypelessEntities": true,
  "minimumPrecision": 0.7,
  "inputs": [
    { "name": "text",
      "source": "/document/content"}
  ],
  "outputs": [
    { "name": "persons", "targetName": "people"},
    { "name": "locations", "targetName": "locations"},
    { "name": "organizations", "targetName": "organizations"},

    { "name": "entities"}
    { "name": "categories"}
    { "name": "namedEntities"}]
```

}

Suggested Answer:

Answer Area

```
{  
  "@odata.type": "#Microsoft.Skills.Text.EntityRecognitionSkill",  
  "categories": [],  
  "categories": [ "Email", "Persons", "Organizations"],  
  "categories": [ "Locations", "Persons", "Organizations"],  
  
  "defaultLanguageCode": "en",  
  "includeTypelessEntities": true,  
  "minimumPrecision": 0.7,  
  "inputs": [  
    { "name": "text",  
      "source": "/document/content"}  
  ],  
  "outputs": [  
    { "name": "persons", "targetName": "people"},  
    { "name": "locations", "targetName": "locations"},  
    { "name": "organizations", "targetName": "organizations"},  
  
    {"name": "entities"}  
    {"name": "categories"}  
    {"name": "namedEntities"}  
  ]  
}
```

Box 1: "categories": ["Locations", "Persons", "Organizations"],

Locations, Persons, Organizations are in the outputs.

Scenario: Contoso plans to develop a searchable knowledgebase of all the intellectual property

Note: The categories parameter is an array of categories that should be extracted. Possible category types: "Person", "Location", "Organization", "Quantity",

"Datetime", "URL", "Email". If no category is provided, all types are returned.

Box 2: {"name": "entities"}

The include wikis, so should include entities in the outputs.

Note: entities is an array of complex types that contains rich information about the entities extracted from text, with the following fields name (the actual entity name. This represents a "normalized" form) wikipediaId wikipediaLanguage wikipediaUrl (a link to Wikipedia page for the entity) etc.

Reference:

<https://docs.microsoft.com/en-us/azure/search/cognitive-search-skill-entity-recognition>

by  RamonKaus at July 24, 2022, 2:35 a.m.

 EXAM AI-102 TOPIC 14 QUESTION 3 DISCUSSION

You are developing the knowledgebase by using Azure Cognitive Search.

You need to process wiki content to meet the technical requirements.

What should you include in the solution?

- A. an indexer for Azure Blob storage attached to a skillset that contains the language detection skill and the text translation skill
- B. an indexer for Azure Blob storage attached to a skillset that contains the language detection skill
- C. an indexer for Azure Cosmos DB attached to a skillset that contains the document extraction skill and the text translation skill
- D. an indexer for Azure Cosmos DB attached to a skillset that contains the language detection skill and the text translation skill

Suggested Answer: *D*

Community vote distribution

D (81%) C (19%)

by  g2000 at May 20, 2022, 8:14 p.m.

 EXAM AI-102 TOPIC 14 QUESTION 4 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (100%)

by  Eltooth at July 25, 2022, 10:26 a.m.

EXAM AI-102 TOPIC 15 QUESTION 1 DISCUSSION

HOTSPOT -

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

You need to build the Adaptive Card for the chatbot.

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

NOTE: Each correct selection is worth one point.

Hot Area:

```
{  
  "$schema": "http://adaptivecards.io.schemas/adaptive-card.json",  
  "type": "AdaptiveCard",  
  "version": "1.3",  
  "body": [  
    {  
      "type": "TextBlock",  
      "size": "Medium",  
      "weight": "Bolder",  
      "text": "${  
        if(language == 'en', 'en', name)  
        name  
        name.en  
        name[language]  
      }"  
    },  
    {  
      "type": "TextBlock",  
      "$when": "${stockLevel != 'OK'}"  
      "$when": "${stockLevel == 'OK'}"  
      "$when": "${stockLevel.OK}"  
      "text": "${stockLevel}",  
      "color": "Attention"  
    },  
    {  
      "type": "Image",  
      "url": "${image.uri}",  
      "size": "Medium",  
      "altText": "${  
        image.altText.en  
        image.altText.language  
        image.altText.[\"language\"]  
        image.altText.[language]  
      }"  
    }  
  ]  
}
```

```

{
  "$schema": "http://adaptivecards.io.schemas/adaptive-card.json",
  "type": "AdaptiveCard",
  "version": "1.3",
  "body": [
    {
      "type": "TextBlock",
      "size": "Medium",
      "weight": "Bolder",
      "text": "${if(language == 'en', 'en', name)}  
name  
name.en  
name[language]
    },
    {
      "type": "TextBlock",
      "$when": "${stockLevel != 'OK'}"  
"$when": "${stockLevel == 'OK'}"  
"$when": "${stockLevel.OK}"
      "text": "${stockLevel}",
      "color": "Attention"
    },
    {
      "type": "Image",
      "url": "${image.uri}",
      "size": "Medium",
      "altText": "${image.altText.en}  
image.altText.language  
image.altText.[language]  
image.altText.[language]
    }
  ]
}

```

Box 1: name [language]

Chatbot must support interactions in English, Spanish, and Portuguese.

Box 2: "\$when:\${stockLevel != 'OK'}

Product displays must include images and warnings when stock levels are low or out of stock.

Box 3: image.altText[language]

by  AdarshKumarKhare at Dec. 4, 2022, 9:38 a.m.

EXAM AI-102 TOPIC 15 QUESTION 2 DISCUSSION

HOTSPOT -

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

You are configuring access to the QnA Maker (classic) 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.

Hot Area:

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

Answer Area

AllUsers:

Cognitive Service User
Contributor
Owner
QnA Maker Editor
QnA Maker Read

Suggested Answer:

LeadershipTeam:

Cognitive Service User
Contributor
Owner
QnA Maker Editor
QnA Maker Read

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

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/reference-role-based-access-control>

by  [akash_0086](#) at *July 11, 2021, 10:26 a.m.*

EXAM AI-102 TOPIC 15 QUESTION 3 DISCUSSION

HOTSPOT -

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

You need to build the Adaptive Card for the chatbot.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
version": "1.3",
"body": [
  {

    "type": "TextBlock",
    "size": "Medium",
    "weight": "Bolder",
    "text": "${if(language == 'en', 'en', name)}  
name  
name.en  
name[language]"}]

  },
{

  "type": "TextBlock",
"$when": "${stockLevel != 'OK'}"  
"$when": "${stockLevel == 'OK'}"  
"$when": "${stockLevel.OK}"}

  color : Attention
},

{
  "type": "Image",
  "url": "${image.uri}",
  "size": "Medium",
  "altText": "${image.altText.en}  
image.altText.language  
image.altText["language"]  
image.altText[language]}]
```

Answer Area

```
version": "1.3",
"body": [
  {

    "type": "TextBlock",
    "size": "Medium",
    "weight": "Bolder",
    "text": "${if(language == 'en', 'en', name)}  
name  
name.en  
name[language]
  },
  {
    "type": "TextBlock",
    "color": "Attention"
  }
]
```

Suggested Answer:

```
"$when": "${stockLevel != 'OK'}"  
"$when": "${stockLevel == 'OK'}"  
"$when": "${stockLevel.OK}"  
color : Attention
},
{
  "type": "Image",
  "url": "${image.uri}",
  "size": "Medium",
  "altText": "${image.altText.en}  
image.altText.language  
image.altText["language"]  
image.altText[language]
}
]
```

Box 1: name.en -

Box 2: "\$when": "\${stockLevel != 'OK'}"

Product displays must include images and warnings when stock levels are low or out of stock.

Box 3:image.altText.en

by  [sdokmak](#) at June 22, 2022, 3:59 a.m.

EXAM AI-102 TOPIC 2 QUESTION 1 DISCUSSION

HOTSPOT -

You are developing an application that will use the Computer Vision client library. The application has the following code.

```
public async Task>AnalyzeImage(ComputerVisionClient client, string localImage)
{
    List<VisualFeatureTypes> features = new List<VisualFeatureTypes>()
    {
        VisualFeatureTypes.Description,
        VisualFeatureTypes.Tags,
    };
    using (Stream imageStream = File.OpenRead(localImage))
    {
        try
        {
            ImageAnalysis results = await client.AnalyzeImageInStreamAsync(imageStream, features);

            foreach (var caption in results.Description.Captions)
            {
                Console.WriteLine($"{caption.Text} with confidence {caption.Confidence}");
            }

            foreach (var tag in results.Tags)
            {
                Console.WriteLine($"{tag.Name} {tag.Confidence}");
            }
        }
        catch (Exception ex)
        {
            Console.WriteLine(ex.Message);
        }
    }
}
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
The code will perform face recognition.	<input type="radio"/>	<input type="radio"/>
The code will list tags and their associated confidence.	<input type="radio"/>	<input type="radio"/>
The code will read a file from the local file system.	<input type="radio"/>	<input type="radio"/>

Answer Area

Statements	Yes	No
Suggested Answer: The code will perform face recognition.	<input type="radio"/>	<input checked="" type="radio"/>
The code will list tags and their associated confidence.	<input checked="" type="radio"/>	<input type="radio"/>
The code will read a file from the local file system.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: No -

Box 2: Yes -

The ComputerVision.analyzeImageInStreamAsync operation extracts a rich set of visual features based on the image content.

Box 3: No -

Images will be read from a stream.

Reference:

<https://docs.microsoft.com/en-us/java/api/com.microsoft.azure.cognitiveservices.vision.computervision.computervision.analyzeimageinstreamasync>

by  motu at June 7, 2021, 1:15 p.m.

 EXAM AI-102 TOPIC 2 QUESTION 10 DISCUSSION

You have an Azure Video Analyzer for Media (previously 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.

Suggested Answer: A

Community vote distribution

A (95%)	5%
---------	----

by  g2000 at May 16, 2022, 3:39 p.m.

 EXAM AI-102 TOPIC 2 QUESTION 11 DISCUSSION

You use the Custom Vision service to build a classifier.

After training is complete, you need to evaluate the classifier.

Which two metrics are available for review? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. recall
- B. F-score
- C. weighted accuracy
- D. precision
- E. area under the curve (AUC)

Suggested Answer: AD

Community vote distribution

AD (100%)

by  PHD_CHENG at May 6, 2022, 5:19 a.m.

EXAM AI-102 TOPIC 2 QUESTION 12 DISCUSSION

DRAG DROP -

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

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

NOTE: Each correct selection is worth one point.

Select and Place:

Values

"faceListId"
"LargeFaceListId"
"matchFace"
"matchPerson"

Answer Area

```
{  
  "faceId": "18c51a87-3a69-47a8-aedc-a54745f708a1",  
  "LargeFaceListId": "employefaces",  
  "maxNumOfCandidatesReturned": 1,  
  "mode": "matchFace"  
}
```

Suggested Answer:

Values

"faceListId"
"LargeFaceListId"
"matchFace"
"matchPerson"

Answer Area

```
{  
  "faceId": "18c51a87-3a69-47a8-aedc-a54745f708a1",  
  "LargeFaceListId": "employefaces",  
  "maxNumOfCandidatesReturned": 1,  
  "mode": "matchFace"  
}
```

Box 1: LargeFaceListID -

LargeFaceList: Add a face to a specified large face list, up to 1,000,000 faces.

Note: Given query face's faceId, to search the similar-looking faces from a faceId array, a face list or a large face list. A "faceListId" is created by FaceList - Create containing persistedFacelids that will not expire. And a "largeFaceListId" is created by LargeFaceList - Create containing persistedFacelids that will also not expire.

Incorrect Answers:

Not "faceListId": Add a face to a specified face list, up to 1,000 faces.

Box 2: matchFace -

Find similar has two working modes, "matchPerson" and "matchFace". "matchPerson" is the default mode that it tries to find faces of the same person as possible by using internal same-person thresholds. It is useful to find a known person's other photos. Note that an empty list will be returned if no faces pass the internal thresholds. "matchFace" mode ignores same-person thresholds and returns ranked similar faces anyway, even the similarity is low. It can be used in the cases like searching celebrity-looking faces.

Reference:

<https://docs.microsoft.com/en-us/rest/api/faceapi/face/findsimilar>

by  Jenny1 at June 16, 2021, 2:35 p.m.

EXAM AI-102 TOPIC 2 QUESTION 13 DISCUSSION

DRAG DROP -

You are developing a photo application that will find photos of a person based on a sample image by using the Face API.

You need to create a POST request to find the photos.

How should you complete the request? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all.

You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Values	Answer Area
detect	POST {Endpoint}/face/v1.0/ <input type="text"/>
findsimilar	Request Body
group	
identify	
matchFace	
matchPerson	
verify	

{
 "faceId": "c5c24a82-6845-4031-9d5d-978df9175426",
 "largeFaceListId": "sample_list",
 "maxNumOfCandidatesReturned": 10,
 "mode": " "

}

Suggested Answer:

Values	Answer Area
detect	POST {Endpoint}/face/v1.0/ <input type="text"/>
findsimilar	Request Body
group	
identify	
matchFace	
matchPerson	
verify	

{
 "faceId": "c5c24a82-6845-4031-9d5d-978df9175426",
 "largeFaceListId": "sample_list",
 "maxNumOfCandidatesReturned": 10,
 "mode": " " matchPerson "

}

Box 1: detect -

Face - Detect With Url: Detect human faces in an image, return face rectangles, and optionally with faceIds, landmarks, and attributes.

POST {Endpoint}/face/v1.0/detect

Box 2: matchPerson -

Find similar has two working modes, "matchPerson" and "matchFace". "matchPerson" is the default mode that it tries to find faces of the same person as possible by using internal same-person thresholds. It is useful to find a known person's other photos. Note that an empty list will be returned if no faces pass the internal thresholds. "matchFace" mode ignores same-person thresholds and returns ranked similar faces anyway, even the similarity is low. It can be used in the cases like searching celebrity-looking faces.

Reference:

<https://docs.microsoft.com/en-us/rest/api/faceapi/face/detectwithurl> <https://docs.microsoft.com/en-us/rest/api/faceapi/face/findsimilar>

by  motu at June 7, 2021, 1:03 p.m.

EXAM AI-102 TOPIC 2 QUESTION 14 DISCUSSION

HOTSPOT -

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.

```
for brand in image_analysis.brands:  
    if brand_confidence >= 0.75:  
        print(f"\nLogo 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.

Hot Area:

Answer Area

Statements

Yes No

The code will return the name of each detected brand with a confidence equal to or higher than 75 percent.

The code will return coordinates for the top-left corner of the rectangle that contains the brand logo of the displayed brands.

The code will return coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.

Suggested Answer:

Answer Area

Statements

Yes No

The code will return the name of each detected brand with a confidence equal to or higher than 75 percent.

The code will return coordinates for the top-left corner of the rectangle that contains the brand logo of the displayed brands.

The code will return coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.

Box 1: Yes -

Box 2: Yes -

Coordinates of a rectangle in the API refer to the top left corner.

Box 3: No -

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-brand-detection>

EXAM AI-102 TOPIC 2 QUESTION 15 DISCUSSION

HOTSPOT -

You develop an application that uses the Face API.

You need to add multiple images to a person group.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
Parallel.For(0, PersonCount, async i =>
{
    Guid personId = persons[i].PersonId;
    string personImageDir = $"{path/to/person/{i}/images}";
    foreach (string imagePath in Directory.GetFiles(personImageDir, "*.jpg"))
    {
        using (File t = File.OpenRead(imagePath))
        {
            await faceClient.PersonGroupPerson.
                AddFaceFromStreamAsync
                (personGroupId, personId, t);
        }
    }
});
```

Suggested Answer:

Answer Area

```
Parallel.For(0, PersonCount, async i =>
{
    Guid personId = persons[i].PersonId;
    string personImageDir = $"{path/to/person/{i}/images}";
    foreach (string imagePath in Directory.GetFiles(personImageDir, "*.jpg"))
    {
        using (Stream t = File.OpenRead(imagePath))
        {
            await faceClient.PersonGroupPerson.
                CreateAsync
                (personGroupId, personId, t);
        }
    }
});
```

Box 1: Stream -

The File.OpenRead(String) method opens an existing file for reading.

Example: Open the stream and read it back.

```
using (FileStream fs = File.OpenRead(path))
```

Box 2: CreateAsync -

Create the persons for the PersonGroup. Persons are created concurrently.

Example:

```
await faceClient.PersonGroupPerson.CreateAsync(personGroupId, personName);
```

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/how-to-add-faces>

by  motu at June 7, 2021, 1:11 p.m.

EXAM AI-102 TOPIC 2 QUESTION 16 DISCUSSION

Your company uses an Azure Cognitive Services solution to detect faces in uploaded images. The method to detect the faces uses the following code.

```
static async Task DetectFaces(string imagePath)
{
    HttpClient client = new HttpClient();
    DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", subscriptionKey);
    string requestParameter = "detectionModel=detection_01&returnFaceId=true&returnFaceLandmarks=false";
    string uri = endpoint + "/face/v1.0/detect?" + requestParameters;
    HttpResponseMessage response;
    byte[] byteData = GetImagesAsByteArray(imagePath);
    using (ByteArrayContent content = new ByteArrayContent(byteData))
    {
        Headers.ContentType = new MediaTypeHeaderValue("application/octet-stream");
        response = await PostAsync(uri, content);
        string contentString = await Content.ReadAsStringAsync();
        ProcessDetection(contentString);
    }
}
```

You discover that the solution frequently fails to detect faces in blurred images and in images that contain sideways faces.
You need to increase the likelihood that the solution can detect faces in blurred images and images that contain sideways faces.
What should you do?

- A. Use a different version of the Face API.
- B. Use the Computer Vision service instead of the Face service.
- C. Use the Identify method instead of the Detect method.
- D. Change the detection model.

Suggested Answer: D

Community vote distribution

D (100%)

by  Eltooth at July 18, 2022, 2:30 p.m.

EXAM AI-102 TOPIC 2 QUESTION 17 DISCUSSION

You have the following Python function for creating Azure Cognitive Services resources programmatically.

```
def create_resource(resource_name, kind, account_tier, location) :  
    parameters = CognitiveServicesAccount(sku=Sku(name=account_tier), kind=kind,  
    location=location, properties={})  
    result = client.accounts.create(resource_group_name, resource_name, parameters)
```

You need to call the function to create a free Azure resource in the West US Azure region. The resource will be used to generate captions of images automatically.

Which code should you use?

- A. `create_resource("res1", "ComputerVision", "F0", "westus")`
- B. `create_resource("res1", "CustomVision.Prediction", "F0", "westus")`
- C. `create_resource("res1", "ComputerVision", "S0", "westus")`
- D. `create_resource("res1", "CustomVision.Prediction", "S0", "westus")`

Suggested Answer: A

Community vote distribution

A (98%)	2%
---------	----

by  [goo1994](#) at Sept. 11, 2022, 12:30 p.m.

EXAM AI-102 TOPIC 2 QUESTION 18 DISCUSSION

You are developing a method that uses the Computer Vision client library. The method will perform optical character recognition (OCR) in images. The method has the following code.

```
def read_file_url(computervision_client, url_file):
    read_response = computervision_client.read(url_file, raw=True)
    read_operation_location = read_response.headers["Operation-Location"]
    operation_id = read_operation_location.split("/")[-1]
    read_result = computervision_client.get_read_result(operation_id)

    for page in read_result.analyze_result.read_results:
        for line in page.lines:
            print(line.text)
```

During testing, you discover that the call to the GetReadResultAsync method occurs before the read operation is complete.

You need to prevent the GetReadResultAsync method from proceeding until the read operation is complete.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Remove the operation_id parameter.
- B. Add code to verify the read_results.status value.
- C. Add code to verify the status of the read_operation_location value.
- D. Wrap the call to get_read_result within a loop that contains a delay.

Suggested Answer: BD

Community vote distribution

BD (100%)

by  michasacuer at Sept. 12, 2022, 7:44 p.m.

 EXAM AI-102 TOPIC 2 QUESTION 19 DISCUSSION

HOTSPOT -

You are building an app that will enable users to upload images. The solution must meet the following requirements:

- * Automatically suggest alt text for the images.
- * Detect inappropriate images and block them.
- * Minimize development effort.

You need to recommend a computer vision endpoint for each requirement.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Generate alt text:

`https://westus.api.cognitive.microsoft.com/contentmoderator/moderate/v1.0/ProcessImage/Evaluate`
`https://westus.api.cognitive.microsoft.com/customvision/v3.1/prediction/projectId/classify/iterations/publishedName/image`
`https://westus.api.cognitive.microsoft.com/vision/v3.2/analyze/?visualFeatures=Adult,Description`

Detect inappropriate content:

`https://westus.api.cognitive.microsoft.com/contentmoderator/moderate/v1.0/ProcessImage/Evaluate`
`https://westus.api.cognitive.microsoft.com/customvision/v3.1/prediction/projectId/classify/iterations/publishedName/image`
`https://westus.api.cognitive.microsoft.com/vision/v3.2/analyze/?visualFeatures=Adult,Description`
`https://westus.api.cognitive.microsoft.com/vision/v3.2/describe?maxCandidates=1`

Suggested Answer:

Answer Area

Generate alt text:

`https://westus.api.cognitive.microsoft.com/contentmoderator/moderate/v1.0/ProcessImage/Evaluate`
`https://westus.api.cognitive.microsoft.com/customvision/v3.1/prediction/projectId/classify/iterations/publishedName/image`
`https://westus.api.cognitive.microsoft.com/vision/v3.2/analyze/?visualFeatures=Adult,Description`

Detect inappropriate content:

`https://westus.api.cognitive.microsoft.com/contentmoderator/moderate/v1.0/ProcessImage/Evaluate`
`https://westus.api.cognitive.microsoft.com/customvision/v3.1/prediction/projectId/classify/iterations/publishedName/image`
`https://westus.api.cognitive.microsoft.com/vision/v3.2/analyze/?visualFeatures=Adult,Description`
`https://westus.api.cognitive.microsoft.com/vision/v3.2/describe?maxCandidates=1`

Box 1: `https://westus.api.cognitive.microsoft.com/customvision/v3.1/prediction/projectid/classify/iterations/publishName/image`

Box 2: `https://westus.api.cognitive.microsoft.com/vision/v3.2/analyze/?visualFeatures=Adult,Description`

Computer Vision can detect adult material in images so that developers can restrict the display of these images in their software. Content flags are applied with a score between zero and one so developers can interpret the results according to their own preferences.

You can detect adult content with the Analyze Image API. When you add the value of Adult to the visualFeatures query parameter
Incorrect:

Use the Image Moderation API in Azure Content Moderator to scan image content. The moderation job scans your content for profanity, and compares it against custom and shared blocklists.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-detecting-adult-content> <https://docs.microsoft.com/en-us/azure/cognitive-services/content-moderator/try-image-api> <https://docs.microsoft.com/en-us/legal/cognitive-services/custom-vision/custom-vision-cvs-transparency-note>

EXAM AI-102 TOPIC 2 QUESTION 2 DISCUSSION

You are developing a method that uses the Computer Vision client library. The method will perform optical character recognition (OCR) in images. The method has the following code.

```
public static async Task ReadFileUrl(ComputerVisionClient client, string urlFile)
{
    const int numberOfCharsInOperationId = 36;

    var txtHeaders = await client.ReadAsync(urlFile, language: "en");

    string opLocation = txtHeaders.OperationLocation;
    string operationId = opLocation.Substring(opLocation.Length -
numberOfCharsInOperationId);

    ReadOperationResult results;

    results = await client.GetReadResultAsync(Guid.Parse(operationId));

    var textUrlFileResults = results.AnalyzeResult.ReadResults;
    foreach (ReadResult page in textUrlFileResults)
    {
        foreach (Line line in page.Lines)
        {
            Console.WriteLine(line.Text);
        }
    }
}
```

During testing, you discover that the call to the GetReadResultAsync method occurs before the read operation is complete.

You need to prevent the GetReadResultAsync method from proceeding until the read operation is complete.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Remove the Guid.Parse(operationId) parameter.
- B. Add code to verify the results.Status value.
- C. Add code to verify the status of the txtHeaders.Status value.
- D. Wrap the call to GetReadResultAsync within a loop that contains a delay.

Suggested Answer: BD

Community vote distribution

BD (100%)

by  SamedKia at April 28, 2022, 9:44 a.m.

 EXAM AI-102 TOPIC 2 QUESTION 20 DISCUSSION

You need to build a solution that will use optical character recognition (OCR) to scan sensitive documents by using the Computer Vision API. The solution must NOT be deployed to the public cloud. What should you do?

- A. Build an on-premises web app to query the Computer Vision endpoint.
- B. Host the Computer Vision endpoint in a container on an on-premises server.
- C. Host an exported Open Neural Network Exchange (ONNX) model on an on-premises server.
- D. Build an Azure web app to query the Computer Vision endpoint.

Suggested Answer: B

Community vote distribution

B (100%)

by  HotDurian at Dec. 12, 2022, 1:51 a.m.

 EXAM AI-102 TOPIC 2 QUESTION 21 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (95%)	5%
---------	----

by  RAN_L at March 15, 2023, 11:57 a.m.

EXAM AI-102 TOPIC 2 QUESTION 22 DISCUSSION

HOTSPOT

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:

Computer Vision analyze images
Computer Vision object detection
Custom Vision image classification
Custom Vision object detection

Property:

categories
description
imageType
metadata
objects

Answer Area

Service endpoint:

Computer Vision analyze images
Computer Vision object detection
Custom Vision image classification
Custom Vision object detection

Property:

categories
description
imageType
metadata
objects

Suggested Answer:

by  [jimbojambo](#) at March 17, 2023, 2:05 p.m.

 EXAM AI-102 TOPIC 2 QUESTION 23 DISCUSSION

You have an app that captures live video of exam candidates.

You need to use the Face service to validate that the subjects of the videos are real people.

What should you do?

- A. Call the face detection API and retrieve the face rectangle by using the FaceRectangle attribute.
- B. Call the face detection API repeatedly and check for changes to the FaceAttributes.HeadPose attribute.
- C. Call the face detection API and use the FaceLandmarks attribute to calculate the distance between pupils.
- D. Call the face detection API repeatedly and check for changes to the FaceAttributes.Accessories attribute.

Suggested Answer: B

Community vote distribution

B (89%) 11%

by  [marti_tremblay000](#) at March 14, 2023, 12:17 p.m.

EXAM AI-102 TOPIC 2 QUESTION 24 DISCUSSION

HOTSPOT

You make an API request and receive the results shown in the following exhibits.

HTTP request

```
POST https://facetesting.cognitiveservices.azure.com/face/v1.0/detect?returnFaceId=true&returnFaceLandmarks=false&returnFaceAttributes=qualityForRecognition&recognitionModel=recognition_04&returnRecognitionModel=false&detectionModel=detection_03&faceIdTimeToLive=86400 HTTP/1.1
Host: facetesting.cognitiveservices.azure.com
Content-Type: application/json
Ocp-Apim-Subscription-Key: *****

{
    "url": "https://news.microsoft.com/wp-content/uploads/prod/sites/68/2021/11/EDU19_HigherEdStudentsOnCampus_002-1536x1024.jpg"
}
```

Send

Response status

200 OK

Response content

```
x-envoy-upstream-service-time: 1292
apim-request-id: 8a3aa72f-5bad-45d0-b8a4-584312258f06
Strict-Transport-Security: max-age=31536000; includeSubDomains; preload
x-content-type-options: nosniff
CSP-Billing-Usage: CognitiveServices.Face.Transaction=1
Date: Sat, 04 Dec 2021 11:15:33 GMT
Content-Length: 655
Content-Type: application/json; charset=utf-8
```

```
[{
  "faceId": "d14d131c-76ba-43e9-9e3d-dcf6466e5022",
  "faceRectangle": {
    "top": 201,
    "left": 797,
    "width": 121,
    "height": 160
  },
  "faceAttributes": {
    "qualityForRecognition": "high"
  }
}, {
  "faceId": "a3a0f2ff-b015-464c-b87c-0dd09d0698da",
  "faceRectangle": {
    "top": 249,
    "left": 1167,
    "width": 103,
    "height": 159
  },
  "faceAttributes": {
    "qualityForRecognition": "medium"
  }
}, {
  "faceId": "45481ce8-dcc4-4564-a21c-3c15cdc9c4fa",
  "faceRectangle": {
    "top": 191,
    "left": 497,
    "width": 85,
    "height": 178
  },
  "faceAttributes": {
    "qualityForRecognition": "low"
  }
}, {
  "faceId": "eac17649-effd-42c9-9093-4dd60fd4fcf7",
  "faceRectangle": {
    "top": 754,
    "left": 118,
    "width": 30,
    "height": 44
  },
  "faceAttributes": {
    "qualityForRecognition": "low"
  }
}]
```

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.

Answer Area

The API [answer choice] faces.

- detects
- finds similar
- recognizes
- verifies

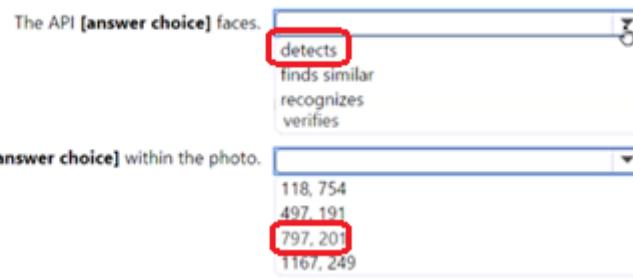
A face that can be used in person enrollment is at position [answer choice] within the photo.

- 118, 754
- 497, 191
- 797, 201
- 1167, 249

Answer Area

Suggested Answer:

A face that can be used in person enrollment is at position [answer choice] within the photo.



by  RAN_L at March 15, 2023, 12:36 p.m.

 EXAM AI-102 TOPIC 2 QUESTION 25 DISCUSSION

You have an Azure subscription that contains an AI enrichment pipeline in Azure Cognitive Search and an Azure Storage account that has 10 GB 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. From the Azure portal, configure scheduled indexing.
- C. Configure field mappings by using the REST API.
- D. Create a text-based indexer by using the REST API.

Suggested Answer: A

Community vote distribution

A (100%)

by  Mike19D at May 2, 2023, 4:29 p.m.

EXAM AI-102 TOPIC 2 QUESTION 26 DISCUSSION

DRAG DROP

You need to analyze video content to identify any mentions of specific company names.

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 the specific company names to the exclude list.
- Add the specific company names to the include list.
- From Content model customization, select **Language**.
- Sign in to the Custom Vision website.
- Sign in to the Azure Video Analyzer for Media website.
- From Content model customization, select **Brands**.

Answer Area



Answer Area

- Sign in to the Azure Video Analyzer for Media website.
- Suggested Answer:**
- From Content model customization, select **Brands**.
 - Add the specific company names to the include list.

by  mmaguero at May 31, 2023, 9:52 a.m.

 EXAM AI-102 TOPIC 2 QUESTION 27 DISCUSSION

You have a mobile app that manages printed forms.

You need the app to send images of the forms directly to Forms Recognizer to extract relevant information. For compliance reasons, the image files must not be stored in the cloud.

In which format should you send the images to the Form Recognizer API endpoint?

- A. raw image binary
- B. form URL encoded
- C. JSON

Suggested Answer: A

Community vote distribution

A (100%)

by  Rob77 at May 6, 2023, 5:29 a.m.

 EXAM AI-102 TOPIC 2 QUESTION 28 DISCUSSION

You plan to build an app that will generate a list of tags for uploaded images. The app must meet the following requirements:

- Generate tags in a user's preferred language.
- Support English, French, and Spanish.
- Minimize development effort.

You need to build a function that will generate the tags for the app.

Which Azure service endpoint should you use?

- A. Content Moderator Image Moderation
- B. Custom Vision image classification
- C. Computer Vision Image Analysis
- D. Custom Translator

Suggested Answer: C

Community vote distribution

C (100%)

by  [MaliSanFuu](#) at April 24, 2023, 12:20 p.m.

EXAM AI-102 TOPIC 2 QUESTION 29 DISCUSSION

HOTSPOT

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.

Answer Area

Statements	Yes	No
The code will display 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 display coordinates for the top-left corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>
The code will display coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>

Answer Area

Suggested Answer:

Statements

The code will display the name of each detected brand with a confidence equal to or higher than 75 percent.

The code will display coordinates for the top-left corner of the rectangle that contains the brand logo of the displayed brands.

The code will display coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.

Yes	No
<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>

by  Rob77 at May 6, 2023, 5:51 a.m.

EXAM AI-102 TOPIC 2 QUESTION 3 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

```
curl -H "Ocp-Apim-Subscription-Key: xxx" /  
-o "sample.png" -H "Content-Type: application/json" /  
"https://api.projectoxford.ai" /vision/v3.1/  
"https://contoso1.cognitiveservices.azure.com"  
"https://westus.api.cognitive.microsoft.com" ?width=100&height=100&smartCropping=true" /  
areaOfInterest  
detect  
generateThumbnail
```

-d "{\"url\":\"https://upload.litwareinc.org/litware/bicycle.jpg\"}"

Suggested Answer:

Answer Area

```
curl -H "Ocp-Apim-Subscription-Key: xxx" /  
-o "sample.png" -H "Content-Type: application/json" /  
"https://api.projectoxford.ai" /vision/v3.1/  
"https://contoso1.cognitiveservices.azure.com"  
"https://westus.api.cognitive.microsoft.com" ?width=100&height=100&smartCropping=true" /  
areaOfInterest  
detect  
generateThumbnail
```

-d "{\"url\":\"https://upload.litwareinc.org/litware/bicycle.jpg\"}"

Reference:

<https://westus.dev.cognitive.microsoft.com/docs/services/computer-vision-v3-2/operations/56f91f2e778daf14a499f21b>

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-generating-thumbnails#examples>

by  SuperPetey at Aug. 23, 2021, 8:13 a.m.

EXAM AI-102 TOPIC 2 QUESTION 30 DISCUSSION

DRAG DROP

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:

Answer Area

Suggested Answer:

Project type:

Domain:

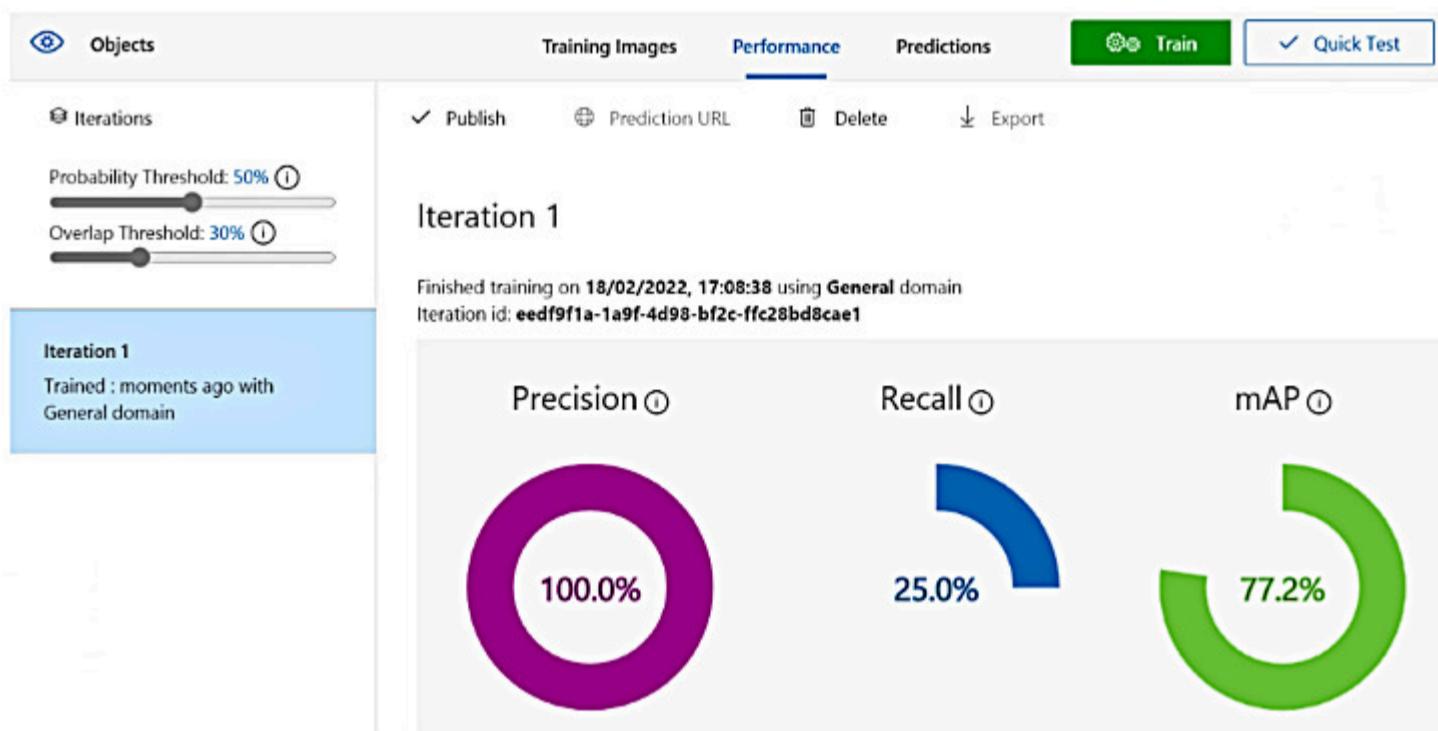
by  Rob77 at May 6, 2023, 5:55 a.m.

EXAM AI-102 TOPIC 2 QUESTION 31 DISCUSSION

HOTSPOT

You are building a model to detect objects in images.

The performance of the model based on training data is shown in the following exhibit.



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.

Answer Area

The percentage of false positives is [answer choice].

0253050100

The value for the number of true positives divided by the total number of true positives and false negatives is [answer choice] %.

0253050100

Answer Area

The percentage of false positives is [answer choice].

0253050100

Suggested Answer:

The value for the number of true positives divided by the total number of true positives and false negatives is [answer choice] %.

0253050100

 EXAM AI-102 TOPIC 2 QUESTION 32 DISCUSSION

You are building an app that will include one million scanned magazine articles. Each article will be stored as an image file.

You need to configure the app to extract text from the images. The solution must minimize development effort.

What should you include in the solution?

- A. Computer Vision Image Analysis
- B. the Read API in Computer Vision
- C. Form Recognizer
- D. Azure Cognitive Service for Language

Suggested Answer: B

Community vote distribution

B (88%)	12%
---------	-----

by  [jangotango](#) at Oct. 5, 2023, 2:25 a.m.

 EXAM AI-102 TOPIC 2 QUESTION 33 DISCUSSION

You have a 20-GB video file named File1.avi that is stored on a local drive.

You need to index File1.avi by using the Azure Video Indexer website.

What should you do first?

- A. Upload File1.avi to an Azure Storage queue.
- B. Upload File1.avi to the Azure Video Indexer website.
- C. Upload File1.avi to Microsoft OneDrive.
- D. Upload File1.avi to the www.youtube.com webpage.

Suggested Answer: C

Community vote distribution

C (82%) B (18%)

by  JDKJDK at Oct. 6, 2023, 7:30 a.m.

 EXAM AI-102 TOPIC 2 QUESTION 34 DISCUSSION

HOTSPOT

You are building an app that will share user images.

You need to configure the app to meet the following requirements:

- Uploaded images must be scanned and any text must be extracted from the images.
- Extracted text must be analyzed for the presence of profane language.
- The solution must minimize development effort.

What should you use for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Text extraction:

Azure AI Language
Azure AI Computer Vision
Content Moderator
Azure AI Custom Vision
Azure AI Document Intelligence

Profane language detection:

Azure AI Language
Azure AI Computer Vision
Content Moderator
Azure AI Custom Vision
Azure AI Document Intelligence

Answer Area

Text extraction:

Azure AI Language
Azure AI Computer Vision
Content Moderator
Azure AI Custom Vision
Azure AI Document Intelligence

Suggested Answer:

Profane language detection:

Azure AI Language
Azure AI Computer Vision
Content Moderator
Azure AI Custom Vision
Azure AI Document Intelligence

by  audlindr at Feb. 29, 2024, 6:27 p.m.

 EXAM AI-102 TOPIC 2 QUESTION 35 DISCUSSION

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

Suggested Answer: CD

Community vote distribution

CD (87%) 13%

by  audlindr at Feb. 29, 2024, 7:22 p.m.

 EXAM AI-102 TOPIC 2 QUESTION 36 DISCUSSION

You are building an app that will use the Azure AI Video Indexer service.

You plan to train a language model to recognize industry-specific terms.

You need to upload a file that contains the industry-specific terms.

Which file format should you use?

- A. XML
- B. TXT
- C. XLS
- D. PDF

Suggested Answer: *B*

Community vote distribution

B (100%)

by  audlindr at Feb. 29, 2024, 7:28 p.m.

EXAM AI-102 TOPIC 2 QUESTION 37 DISCUSSION

DRAG DROP

You have an app that uses Azure AI and a custom trained classifier to identify products in images.

You need to add new products to the classifier. The solution must meet the following requirements:

- Minimize how long it takes to add the products.
- Minimize development effort.

Which five 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
Label the sample images.	
From Vision Studio, open the project.	
Publish the model.	
From the Custom Vision portal, open the project.	
Retrain the model.	
Upload sample images of the new products.	
From the Azure Machine Learning studio, open the workspace.	

Answer Area	
From Vision Studio, open the project.	
Upload sample images of the new products.	
Suggested Answer: Label the sample images.	
Retrain the model.	
Publish the model.	

by  Harry300 at March 1, 2024, 6:16 p.m.

EXAM AI-102 TOPIC 2 QUESTION 38 DISCUSSION

HOTSPOT

You are developing an application that will use the Azure AI Vision client library. The application has the following code.

```
def analyze_image(local_image):
    with open(local_image, "rb") as image_stream:
        image_analysis = client.analyze_image_in_stream(
            image=image_stream,
            visual_features=[
                VisualFeatureTypes.tags,
                VisualFeatureTypes.description
            ]
        )
        for caption in image_analysis.description.captions:
            print(f"\n{caption.text} with confidence {caption.confidence}")
        for tag in image_analysis.tags:
            print(f"\n{tag.name} with confidence {tag.confidence}")
```

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 code will perform face recognition.	<input type="radio"/>	<input type="radio"/>
The code will list tags and their associated confidence.	<input type="radio"/>	<input type="radio"/>
The code will read an image file from the local file system.	<input type="radio"/>	<input type="radio"/>

Answer Area

Statements	Yes	No
Suggested Answer: The code will perform face recognition.	<input type="radio"/>	<input checked="" type="checkbox"/>
The code will list tags and their associated confidence.	<input checked="" type="checkbox"/>	<input type="radio"/>
The code will read an image file from the local file system.	<input checked="" type="checkbox"/>	<input type="radio"/>

by  Murtuza at March 17, 2024, 6:06 p.m.

EXAM AI-102 TOPIC 2 QUESTION 39 DISCUSSION

You are developing a method that uses the Azure AI Vision client library. The method will perform optical character recognition (OCR) in images. The method has the following code.

```
def read_file_url(computervision_client, url_file):
    read_response = computervision_client.read(url_file, raw=True)
    read_operation_location = read_response.headers["Operation-Location"]
    operation_id = read_operation_location.split("/")[-1]
    read_result = computervision_client.get_read_result(operation_id)

    for page in read_result.analyze_result.read_results:
        for line in page.lines:
            print(line.text)
```

During testing, you discover that the call to the `get_read_result` method occurs before the read operation is complete.

You need to prevent the `get_read_result` method from proceeding until the read operation is complete.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Remove the `operation_id` parameter.
- B. Add code to verify the `read_results.status` value.
- C. Add code to verify the status of the `read_operation_location` value.
- D. Wrap the call to `get_read_result` within a loop that contains a delay.

Suggested Answer: *BD*

Community vote distribution

BD (100%)

by  moonlightc at Aug. 6, 2024, 10:48 p.m.

EXAM AI-102 TOPIC 2 QUESTION 4 DISCUSSION

DRAG DROP -

You are developing a webpage that will use the Azure Video Analyzer for Media (previously 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.

Select and Place:

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

Answer Area

Cognitive Insights Widget

`https://www.videoindexer.ai/embed/insights/<accountId>/<videoId>/?widgets=` `controls=`

Player Widget

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

Suggested Answer:

Values
false
people,search

Answer Area

Cognitive Insights Widget

`https://www.videoindexer.ai/embed/insights/<accountId>/<videoId>/?widgets=` `controls=`

Player Widget

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

Reference:

<https://docs.microsoft.com/en-us/azure/azure-video-analyzer/video-analyzer-for-media-docs/video-indexer-embed-widgets>

by  Daemon69 at June 28, 2022, 4:15 a.m.

EXAM AI-102 TOPIC 2 QUESTION 40 DISCUSSION

HOTSPOT

You are developing an app that will use the Azure AI Vision API to analyze an image.

You need to configure the request that will be used by the app to identify whether an image is clipart or a line drawing.

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

GET
PATCH
POST

"https://*.cognitiveservices.azure.com/vision/v3.2/analyze?visualFeatures="

&details={string}&language=e
description
imageType
objects
tags

Answer Area

GET
PATCH
POST

Suggested Answer:

"https://*.cognitiveservices.azure.com/vision/v3.2/analyze?visualFeatures="

&details={string}&language=e
description
imageType
objects
tags

by  anto69 at Aug. 13, 2024, 4:46 a.m.

EXAM AI-102 TOPIC 2 QUESTION 41 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure AI Video Indexer account.

You need to add a custom brand and logo to the indexer and configure an exclusion for the custom brand.

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

NOTE: Each correct selection is worth one point.

```
{  
    "referenceUrl": "https://www.contoso.com/Contoso",  
    "id": 97974,  
    "name": "Contoso",  
    "accountId": "ContosoAccountId",  
    "lastModifierUserName": "SampleUserName",  
    "created": "2023-04-25T14:59:52.7433333",  
    "lastModified": "2023-04-25T14:59:52.7433333",  
    "enabled": true,  
    "state": "Excluded",  
    "tags": false,  
    "useBuiltIn": true}
```

"enabled":	["Excluded"]
"state":	["Included"]
"tags":	false
"useBuiltIn":	true

```
{  
    "referenceUrl": "https://www.contoso.com/Contoso",  
    "id": 97974,  
    "name": "Contoso",  
    "accountId": "ContosoAccountId",  
    "lastModifierUserName": "SampleUserName",  
    "created": "2023-04-25T14:59:52.7433333",  
    "lastModified": "2023-04-25T14:59:52.7433333",  
    "enabled": true,  
    "state": "Excluded",  
    "tags": false,  
    "useBuiltIn": true}
```

Suggested Answer:

"enabled":	["Excluded"]
"state":	["Included"]
"tags":	false
"useBuiltIn":	true

EXAM AI-102 TOPIC 2 QUESTION 42 DISCUSSION

You have a local folder that contains the files shown in the following table.

Name	Format	Length (mins)	Size (MB)
File1	WMV	34	400
File2	AVI	90	1,200
File3	MOV	300	980
File4	MP4	80	1,800

You need to analyze the files by using Azure AI Video Indexer.

Which files can you upload to the Video Indexer website?

- A. File1 and File3 only
- B. File1, File2, File3 and File4
- C. File1, File2, and File3 only
- D. File1 and File2 only
- E. File1, File2, and File4 only

Suggested Answer: B

Community vote distribution

B (100%)

by  Christian_garcia_martin at Oct. 24, 2024, 8:09 a.m.

EXAM AI-102 TOPIC 2 QUESTION 5 DISCUSSION

DRAG DROP -

You train a Custom Vision model to identify a company's products by using the Retail domain.

You plan to deploy the model as part of an app for Android phones.

You need to prepare the model for deployment.

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.

Select and Place:

Actions

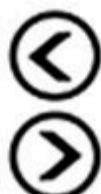
Change the model domain.

Retrain the model.

Test the model.

Export the model.

Answer Area



Suggested Answer:

Actions

Change the model domain.

Retrain the model.

Test the model.

Export the model.

Answer Area

Change the model domain.

Retrain the model.

Test the model.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/export-your-model>

by SuperPetey at Aug. 23, 2021, 8:25 a.m.

EXAM AI-102 TOPIC 2 QUESTION 6 DISCUSSION

HOTSPOT -

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.

```
def add_face(subscription_key, person_group_id, person_id, image_uri):
    headers = {
        'Content-Type': 'application/json',
        'Ocp-Apim-Subscription-Key': subscription_key
    }
    body = {
        'url': image_uri
    }
    conn = httplib.HTTPEConnection('westus.api.cognitive.microsoft.com')
    conn.request('POST',
        f'/face/v1.0/persongroups/{person_group_id}/persons/{person_id}/persistedFaces', f'{body}', headers)
    response = conn.getresponse()
    response_data = response.read()
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements

Yes **No**

The code will add a face image to a person object in a person group.

The code will work for up to 10,000 people.

add_face can be called multiple times to add multiple face images to a person object.

Suggested Answer:

Answer Area

Statements

Yes **No**

The code will add a face image to a person object in a person group.

The code will work for up to 10,000 people.

add_face can be called multiple times to add multiple face images to a person object.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/use-persondirectory>

by  Internal_Koala at Sept. 14, 2022, 12:31 p.m.

EXAM AI-102 TOPIC 2 QUESTION 7 DISCUSSION

DRAG DROP -

You have a Custom Vision resource named acvdev in a development environment.

You have a Custom Vision resource named acvprod in a production environment.

In acvdev, you build an object detection model named obj1 in a project named proj1.

You need to move obj1 to acvprod.

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.

Select and Place:

Actions

Use the ExportProject endpoint on acvdev.

Use the GetProjects endpoint on acvdev.

Use the ImportProject endpoint on acvprod.

Use the ExportIteration endpoint on acvdev.

Use the GetIterations endpoint on acvdev.

Use the UpdateProject endpoint on acvprod.

Answer Area



Suggested Answer:

Actions

Use the ExportIteration endpoint on acvdev.

Use the GetIterations endpoint on acvdev.

Use the UpdateProject endpoint on acvprod.

Answer Area

Use the GetProjects endpoint on acvdev.

Use the ExportProject endpoint on acvdev.



Use the ImportProject endpoint on acvprod.



Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/copy-move-projects>

by Derin_tade at Sept. 16, 2021, 5:45 p.m.

EXAM AI-102 TOPIC 2 QUESTION 8 DISCUSSION

DRAG DROP -

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.

Select and Place:

Actions

Train the classifier model.

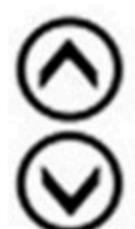
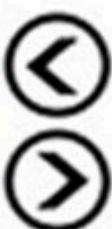
Upload and tag images.

Initialize the training dataset.

Train the object detection model.

Create a project.

Answer Area



Suggested Answer:

Actions

Initialize the training dataset.

Train the object detection model.

Answer Area

Create a project.

Upload and tag images.

Train the classifier model.

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 -

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/getting-started-build-a-classifier>

EXAM AI-102 TOPIC 2 QUESTION 9 DISCUSSION

HOTSPOT -

You are building a model that will be used in an iOS app.

You have images of cats and dogs. Each image contains either a cat or a dog.

You need to use the Custom Vision service to detect whether the images is of a cat or a dog.

How should you configure the project in the Custom Vision portal? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Project Types:

Classification
Object Detection

Classification Types:

Multiclass (Single tag per image)
Multilabel (Multiple tags per image)

Domains:

Audit
Food
General
General (compact)
Landmarks
Landmarks (compact)
Retail
Retail (compact)

Answer Area

Project Types:

Classification
Object Detection

Classification Types:

Multiclass (Single tag per image)
Multilabel (Multiple tags per image)

Suggested Answer:

Domains:

Audit
Food
General
General (compact)
Landmarks
Landmarks (compact)
Retail
Retail (compact)

Box 1: Classification -

Incorrect Answers:

An object detection project is for detecting which objects, if any, from a set of candidates are present in an image.

Box 2: Multiclass -

A multiclass classification project is for classifying images into a set of tags, or target labels. An image can be assigned to one tag only.

Incorrect Answers:

A multilabel classification project is similar, but each image can have multiple tags assigned to it.

Box 3: General -

General: Optimized for a broad range of image classification tasks. If none of the other specific domains are appropriate, or if you're unsure of which domain to choose, select one of the General domains.

Reference:

<https://cran.r-project.org/web/packages/AzureVision/vignettes/customvision.html>

by  SamedKia at April 28, 2022, 9:53 a.m.

EXAM AI-102 TOPIC 3 QUESTION 1 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (52%) A (48%)

by  [Jenny1](#) at June 17, 2021, 3:23 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 10 DISCUSSION

You are building a conversational language understanding model.

You need to enable active learning.

What should you do?

- A. Add show-all-intents=true to the prediction endpoint query.
- B. Enable speech priming.
- C. Add log=true to the prediction endpoint query.
- D. Enable sentiment analysis.

Suggested Answer: C

Community vote distribution

C (100%)

by  jekko at May 21, 2022, 11:22 a.m.

 EXAM AI-102 TOPIC 3 QUESTION 11 DISCUSSION

HOTSPOT -

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.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Going to http://localhost:5000/status 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 http://localhost:5000/swagger will provide the details to access the documentation for the available endpoints.	<input type="radio"/>	<input type="radio"/>

Suggested Answer:

Answer Area

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

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.

Reference:

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

 EXAM AI-102 TOPIC 3 QUESTION 12 DISCUSSION

You are building a Language Understanding model for an e-commerce platform.

You need to construct an entity to capture billing addresses.

Which entity type should you use for the billing address?

- A. machine learned
- B. Regex
- C. geographyV2
- D. Pattern.any
- E. list

Suggested Answer: A

Community vote distribution

A (81%) Other

by  Omobonike at June 3, 2021, 1:45 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 13 DISCUSSION

You need to upload speech samples to a Speech Studio project for use in training.

How should you upload the samples?

- A. Combine the speech samples into a single audio file in the .wma format and upload the file.
- B. Upload a .zip file that contains a collection of audio files in the .wav format and a corresponding text transcript file.
- C. Upload individual audio files in the FLAC format and manually upload a corresponding transcript in Microsoft Word format.
- D. Upload individual audio files in the .wma format.

Suggested Answer: B

Community vote distribution

B (100%)

by  Eltooth at July 18, 2022, 7:10 p.m.

EXAM AI-102 TOPIC 3 QUESTION 14 DISCUSSION

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.

NOTE: Each correct selection is worth one point.

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

Suggested Answer: CDF

Community vote distribution

CDF (100%)

by  Eltooth at July 19, 2022, 6:59 a.m.

 EXAM AI-102 TOPIC 3 QUESTION 15 DISCUSSION

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.

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

Suggested Answer: CE

Community vote distribution

CE (100%)

by  PHD_CHENG at May 6, 2022, 4:04 p.m.

EXAM AI-102 TOPIC 3 QUESTION 16 DISCUSSION

DRAG DROP -

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.

Select and Place:

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.

Suggested Answer:

Actions

Answer Area

Add a new question and answer (QnA) pair.

Add alternative phrasing to the question and answer (QnA) pair.

Retrain the model.

Retrain the model.

Add additional questions to the document.

Republish the model.

Republish the model.

Add alternative phrasing to the question and answer (QnA) pair.

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.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/edit-knowledge-base>

EXAM AI-102 TOPIC 3 QUESTION 18 DISCUSSION

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 intent for location.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  [hiabcd](#) at June 4, 2021, 12:54 p.m.

EXAM AI-102 TOPIC 3 QUESTION 19 DISCUSSION

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 entity for the domain.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (53%)

A (47%)

by  SamedKia at April 28, 2022, 10:19 a.m.

EXAM AI-102 TOPIC 3 QUESTION 2 DISCUSSION

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 then use the Smart Labeler tool.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  [azurelearner666](#) at June 30, 2021, 7:07 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 20 DISCUSSION

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.

Suggested Answer: D

Community vote distribution

D (87%)	13%
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by  Isidro at May 24, 2022, 9:54 a.m.

EXAM AI-102 TOPIC 3 QUESTION 21 DISCUSSION

DRAG DROP -

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.

Select and Place:

Entity Types Answer Area

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

Entity Types Answer Area

Suggested Answer:	Email	
	List	GeographyV2
	Regex	Email
	GeographyV2	Machine learned
	Machine learned	

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.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-reference-prebuilt-geographyv2> <https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-reference-prebuilt-email> <https://docs.microsoft.com/en-us/azure/cognitive-services/luis/reference-entity-machine-learned-entity>

EXAM AI-102 TOPIC 3 QUESTION 22 DISCUSSION

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")

Suggested Answer: B

Community vote distribution

B (100%)

by  PHD_CHENG at May 9, 2022, 6:45 a.m.

EXAM AI-102 TOPIC 3 QUESTION 23 DISCUSSION

You build a Conversational Language Understanding model by using the Language Services 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

Suggested Answer: A

Community vote distribution

A (100%)

by  David_ml at Oct. 18, 2022, 7:52 p.m.

EXAM AI-102 TOPIC 3 QUESTION 24 DISCUSSION

SIMULATION -

You need to configure and publish bot12345678 to support task management. The intent must be named TaskReminder. The LUDown for the intent is in the C:

\Resources\LU folder.

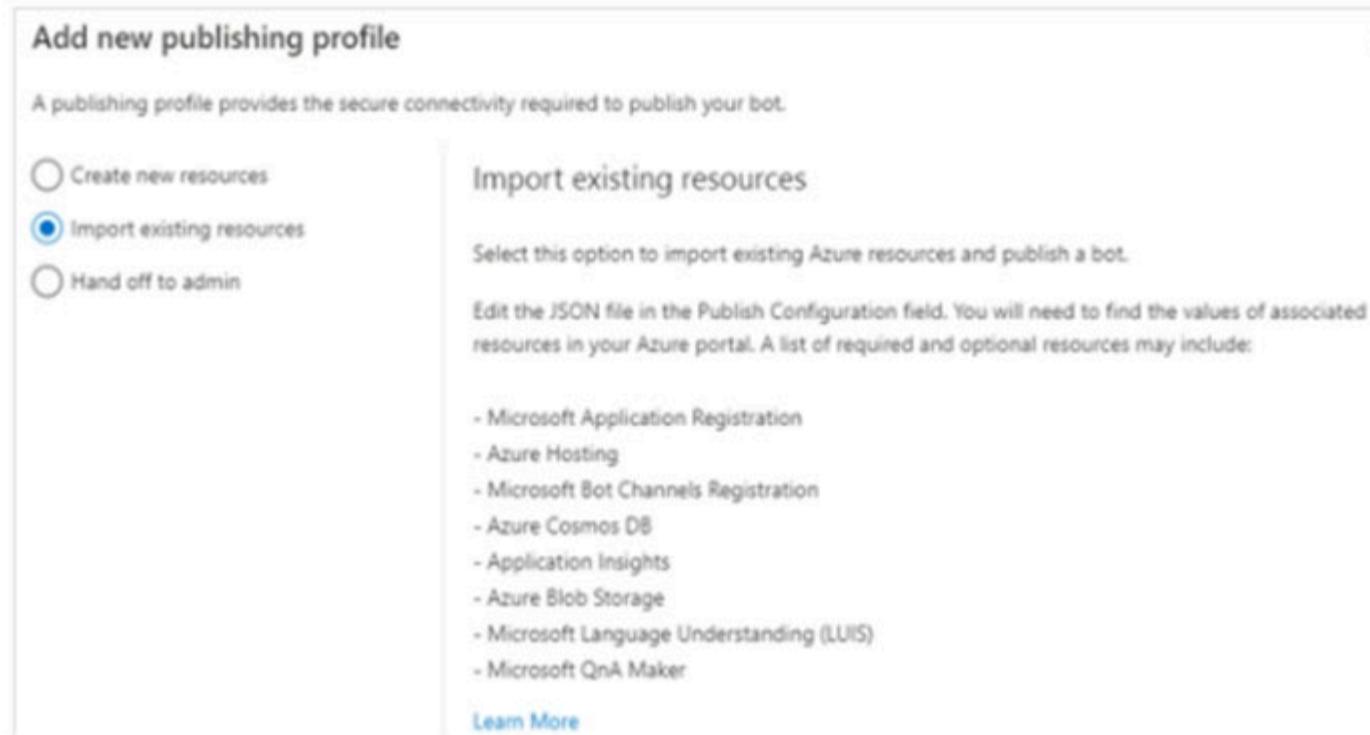
To complete this task, use the Microsoft Bot Framework Composer.

Suggested Answer: See explanation below.

Step 1: Open Microsoft Bot Framework Composer

Step 2: Select the bot bot12345678

Step 3: Select Import existing resources. Read the instructions on the right side of the screen and select Next.

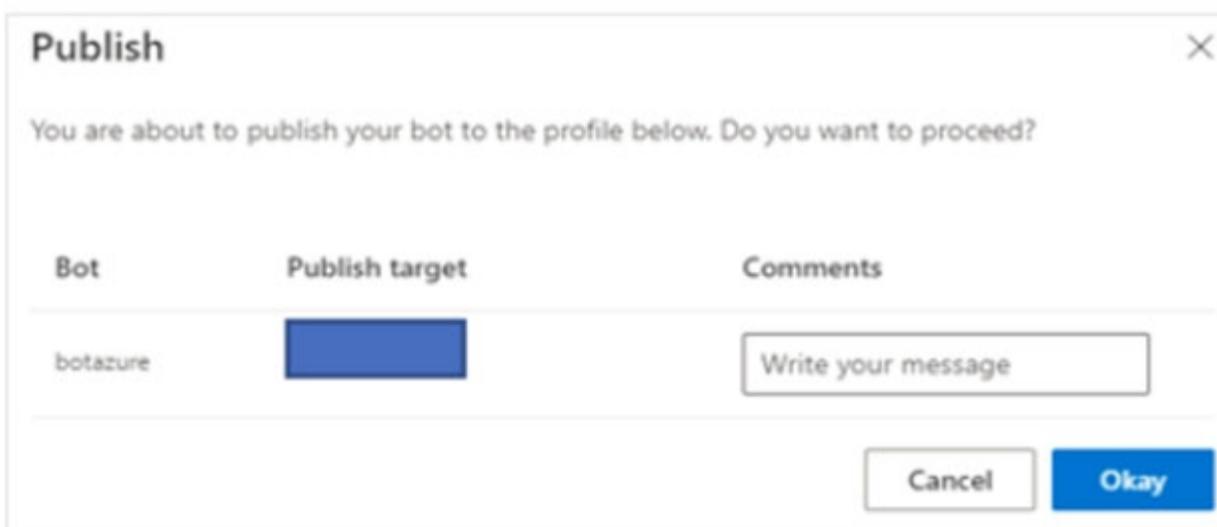


Step 4: Browse to the C:\Resources\LU folder and select the available .lu file

Step 5: In the pop-up window Importing existing resources, modify the JSON file content based on your resources information: Name the intent TaskReminder

Step 6: Select Publish from the Composer menu. In the Publish your bots pane, select the bot to publish (bot12345678), then select a publish profile from the

Publish target drop-down list.



Reference:

<https://docs.microsoft.com/en-us/composer/how-to-publish-bot>

by  famco at Sept. 6, 2024, 5:14 p.m.

EXAM AI-102 TOPIC 3 QUESTION 24 DISCUSSION

You are examining the Text Analytics 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 Text Analytics API is used to analyze the text?

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

Suggested Answer: B

Community vote distribution

B (100%)

by  halfway at Nov. 18, 2022, 3:31 a.m.

EXAM AI-102 TOPIC 3 QUESTION 26 DISCUSSION

SIMULATION -

You need to configure bot12345678 support the French (FR-FR) language.

Export the bot to C:\Resources\Bot\Bot1.zip.

To complete this task, use the Microsoft Bot Framework Composer.

Suggested Answer: See explanation below.

Step 1: Open Microsoft Bot Framework Composer

Step 2: Select the bot bot12345678

Step 3: Select Configure.

Step 4: Select the Azure Language Understanding tab

Step 5: Select the Set up Language Understanding button. The Set up Language Understanding window will appear, shown below:

Set up Language Understanding X

To understand natural language input and direct the conversation flow, your bot needs a language understanding service. [Learn more](#)

- Use existing resources
- Create and configure new Azure resources
- Generate instructions for Azure administrator

Next

Cancel

Step 6: Select Use existing resources and then select Next at the bottom of the window.

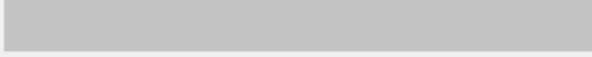
Step 7: Now select the Azure directory, Azure subscription, and Language Understanding resource name (French).

Step 8: Select Next on the bottom. Your Key and Region will appear on the next on the next window, shown below:

Select Language Understanding resources

X

The following Language Understanding keys have been successfully added to your bot project:

Key


Region


Done

Step 9. Select Done -

Reference:

<https://docs.microsoft.com/en-us/composer/concept-language-understanding> <https://docs.microsoft.com/en-us/composer/how-to-add-luis>

by  [halfway](#) at Nov. 20, 2022, 3:06 a.m.

 EXAM AI-102 TOPIC 3 QUESTION 28 DISCUSSION

You need to measure the public perception of your brand on social media by using natural language processing.
Which Azure service should you use?

- A. Language service
- B. Content Moderator
- C. Computer Vision
- D. Form Recognizer

Suggested Answer: A

Community vote distribution

A (100%)

by  [halfway](#) at Nov. 21, 2022, 2:13 p.m.

EXAM AI-102 TOPIC 3 QUESTION 29 DISCUSSION

HOTSPOT -

You are developing an application that includes language translation.

The application will translate text retrieved by using a function named `get_text_to_be_translated`. 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.

Hot Area:

Answer Area

```
    . . .
api_key = "FF956C68B83B21B38691ABD200A4C606"
text = get_text_to_be_translated()
headers = {
    'Content-Type': 'application/json',
    'Ocp-Apim-Subscription-Key': api_key
}
body = {
    'Text': text
}
conn = httplib.HTTPSConnection
        ▼
        ▼
("api.cogninve.microsofttranslator.com")
("api-apc.cognitive.microsofttranslator.com")
("api-nam.cognitive.microsofttranslator.com")

conn.request("POST",
        ▼
        ▼
"/translate?fr=es&to=en"
"/translate?fr=es&suggestedFrom=en"
"/translate?to=en"
"/detect?to=en"
"/detect?from=en"

response = conn.getresponse()
response_data = response.read()
. . .
```

Suggested Answer:**Answer Area**

```
    . . .
    api_key = "FF956C68B83B21B38691ABD200A4C606"
    text = get_text_to_be_translated()
    headers = {
        'Content-Type': 'application/json',
        'Ocp-Apim-Subscription-Key': api_key
    }
    body = {
        'Text': text
    }
    conn = httpclient.HTTPSConnection
    conn.request("POST",
                 "/translate?to=en",
                 str(body), headers)
    response = conn.getresponse()
    response_data = response.read()
    . . .
```

Box 1: ("api-nam.cognitive.microsofttranslator.com")

Geography USA: api-nam.cognitive.microsofttranslator.com

Datacenters: East US, South Central US, West Central US, and West US 2

Box 2: "/translate?to=en"

Must specify the language which it is being translated to. The 'to' parameter is required

Reference:

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

by  Davard at Sept. 25, 2022, 2:05 a.m.

EXAM AI-102 TOPIC 3 QUESTION 3 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (100%)

by  [azurelearner666](#) at June 30, 2021, 7:09 p.m.

EXAM AI-102 TOPIC 3 QUESTION 30 DISCUSSION

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You need to create and publish a Language Understanding (classic) model named 1u12345678. The model will contain an intent of Travel that has an utterance of

Boat.

To complete this task, sign in to the Language Understanding portal at <http://www.luis-ai/>.

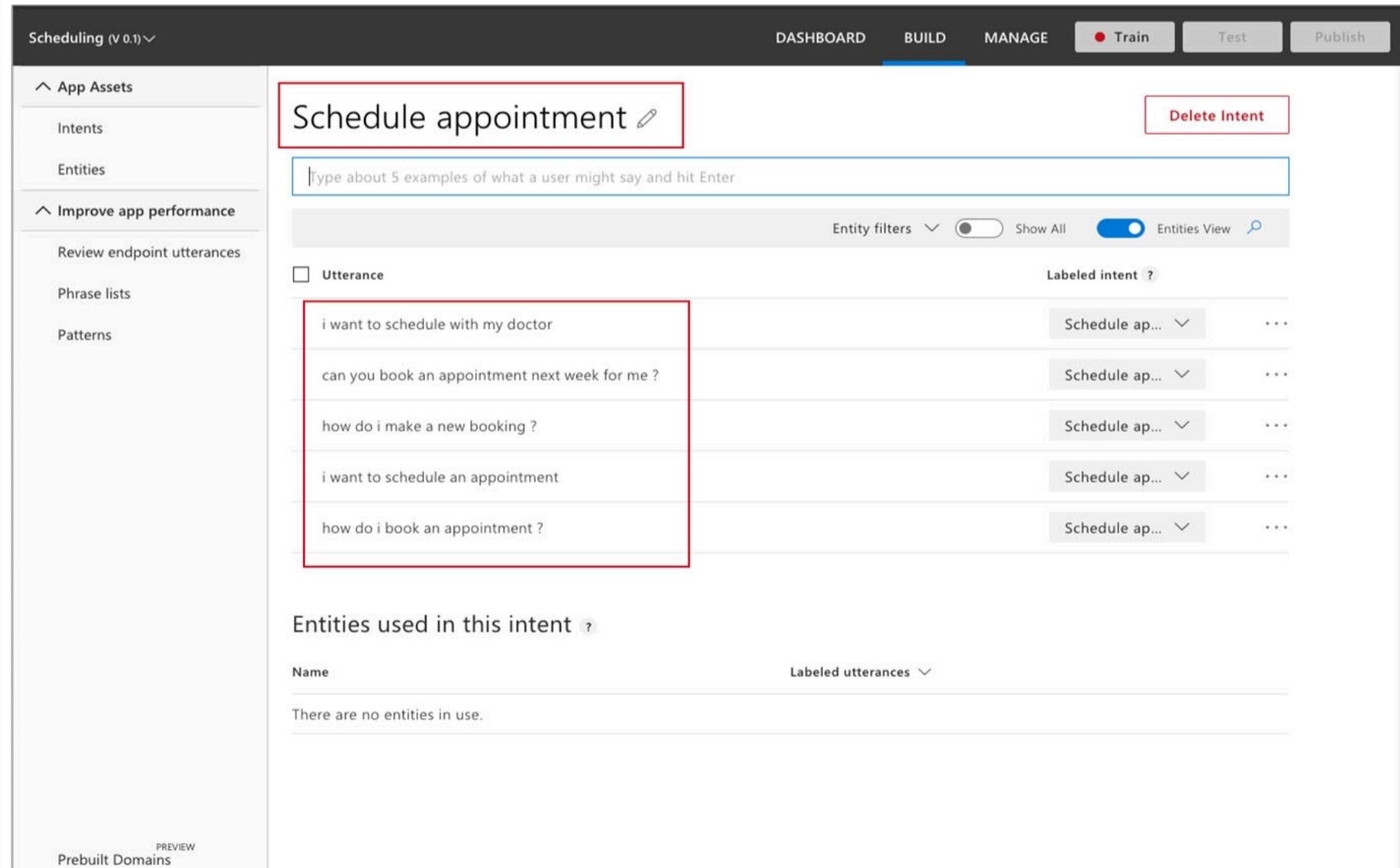
Suggested Answer: See explanation below.

Create your LUIS model -

1. You should navigate to your LUIS.ai management portal and create a new application. In the portal create a model.

Model name: 1u12345678 -

2. Define one intent as "Travel" and add an example utterances of Boat.



The screenshot shows the LUIS.ai management portal interface. The top navigation bar includes 'Scheduling (v 0.1) ▾', 'DASHBOARD', 'BUILD' (which is selected), 'MANAGE', and buttons for 'Train', 'Test', and 'Publish'. On the left, a sidebar lists 'App Assets' (Intents, Entities), 'Improve app performance' (Review endpoint utterances, Phrase lists, Patterns), and 'PREVIEW Prebuilt Domains'. The main area is titled 'Schedule appointment' with a red border. It contains a text input field with placeholder 'Type about 5 examples of what a user might say and hit Enter'. Below it is a table for utterances, with a red border around the first five rows. The columns are 'Utterance' (example: 'i want to schedule with my doctor'), 'Labeled intent?' (example: 'Schedule ap...'), and three more columns for each row. At the bottom, there's a section for 'Entities used in this intent' with a table for 'Name' and 'Labeled utterances', both currently empty. A note says 'There are no entities in use.'

3. Publish the model

In order to use your model, you have to publish it. This is as easy as hitting the Publish tab, selecting between the production or staging environments, and hitting

Publish. As you can see from this page, you can also choose to enable sentiment analysis, speech priming to improve speech recognition, or the spell checker.

For now, you can leave those unchecked.

Reference:

https://docs.microsoft.com/en-us/azure/health-bot/language_model_howto <https://www.codemag.com/article/1809021/Natural-Language-Understanding-with-LUIS>

by  [ziggy1117](#) at June 9, 2023, 3:57 a.m.

EXAM AI-102 TOPIC 3 QUESTION 30 DISCUSSION

You have the following data sources:

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

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

What should you do?

- A. Migrate the data in HR to Azure Blob storage.
- B. Migrate the data in HR to the on-premises SQL server.
- C. Export the data in Finance to Azure Data Lake Storage.
- D. Ingest the data in Logs into Azure Sentinel.

Suggested Answer: C

Community vote distribution

C (100%)

by  [halfway](#) at Nov. 21, 2022, 2:19 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 32 DISCUSSION

You have a Language service resource that performs the following:

- Sentiment analysis
- Named Entity Recognition (NER)
- Personally Identifiable Information (PII) identification

You need to prevent the resource from persisting input data once the data is analyzed.

Which query parameter in the Language service API should you configure?

- A. model-version
- B. piiCategories
- C. showStats
- D. loggingOptOut

Suggested Answer: D

Community vote distribution

D (100%)

by  [marti_tremblay000](#) at March 14, 2023, 12:31 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 33 DISCUSSION

You have an Azure Cognitive Services model named Model1 that identifies the intent of text input.

You develop an app in C# named App1.

You need to configure App1 to use Model1.

Which package should you add to App1?

- A. Universal.Microsoft.CognitiveServices.Speech
- B. SpeechServicesToolkit
- C. Azure.AI.Language.Conversations
- D. Xamarin.Cognitive.Speech

Suggested Answer: C

Community vote distribution

C (100%)

by  [marti_tremblay000](#) at March 14, 2023, 12:35 p.m.

EXAM AI-102 TOPIC 3 QUESTION 34 DISCUSSION

HOTSPOT

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.

Answer Area

Custom neural voice:

- Microsoft Bot Framework Composer
- The Azure portal
- The Language Understanding portal
- The Speech Studio portal

Narration:

- Language Understanding
- Speaker Recognition
- Speech-to-text
- Text-to-speech

Answer Area

Custom neural voice:

- Microsoft Bot Framework Composer
- The Azure portal
- The Language Understanding portal
- The Speech Studio portal**

Suggested Answer:

Narration:

- Language Understanding
- Speaker Recognition
- Speech-to-text
- Text-to-speech**

by  marti_tremblay000 at March 14, 2023, 12:38 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 35 DISCUSSION

HOTSPOT

You are building a call handling system that will receive calls from French-speaking and German-speaking callers. The system must perform the following tasks:

- Capture inbound voice messages as text.
- Replay messages in English on demand.

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

NOTE: Each correct selection is worth one point.

Answer Area

To capture messages:

Speaker Recognition
Speech-to-text
Text-to-speech
Translator

To replay messages:

Speech-to-text only
Speech-to-text and Language
Speaker Recognition and Language
Text-to-speech and Language
Text-to-speech and Translator

Answer Area

To capture messages:

Speaker Recognition
Speech-to-text
Text-to-speech
Translator

Suggested Answer:

To replay messages:

Speech-to-text only
Speech-to-text and Language
Speaker Recognition and Language
Text-to-speech and Language
Text-to-speech and Translator

by  ziggy1117 at June 9, 2023, 4:31 a.m.

EXAM AI-102 TOPIC 3 QUESTION 36 DISCUSSION

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

Suggested Answer: C

Community vote distribution

C (97%) 3%

by  [marti_tremblay000](#) at March 14, 2023, 12:48 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 37 DISCUSSION

You develop a custom question answering project in Azure Cognitive Service for Language. The project will be used by a chatbot.

You need to configure the project to engage in multi-turn conversations.

What should you do?

- A. Add follow-up prompts.
- B. Enable active learning.
- C. Add alternate questions.
- D. Enable chit-chat.

Suggested Answer: A

Community vote distribution

A (100%)

by  [marti_tremblay000](#) at March 16, 2023, 12:16 p.m.

EXAM AI-102 TOPIC 3 QUESTION 38 DISCUSSION

HOTSPOT

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.

Answer Area

Statements	Yes	No
The code will detect the language of documents.	<input type="radio"/>	<input type="radio"/>
The url 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"/>

Answer Area

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

by  WhyWhyYellowYellow at April 2, 2023, 6:54 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 39 DISCUSSION

You train a Conversational Language Understanding model to understand the natural language input of users.

You need to evaluate the accuracy of the model before deploying it.

What are two methods you can use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. From the language authoring REST endpoint, retrieve the model evaluation summary.
- B. From Language Studio, enable Active Learning, and then validate the utterances logged for review.
- C. From Language Studio, select Model performance.
- D. From the Azure portal, enable log collection in Log Analytics, and then analyze the logs.

Suggested Answer: AC

Community vote distribution

AC (90%)	10%
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by  sheldon73 at May 24, 2023, 10:39 a.m.

EXAM AI-102 TOPIC 3 QUESTION 4 DISCUSSION

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 create a new model, and then upload the new images and labels.

Does this meet the goal?

A. Yes

B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  [azurelearner666](#) at June 30, 2021, 7:09 p.m.

EXAM AI-102 TOPIC 3 QUESTION 40 DISCUSSION

DRAG DROP

You develop an app in C# named App1 that performs speech-to-speech translation.

You need to configure App1 to translate English to German.

How should you complete the SpeechTranslationConfig object? 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
addTargetLanguage	
speechSynthesisLanguage	
speechRecognitionLanguage	
voiceName	

```
var translationConfig = SpeechTranslationConfig.FromSubscription(SPEECH_SUBSCRIPTION_KEY, SPEECH_SERVICE_REGION);
    translationConfig.  = "en-US";
    translationConfig.  ("de");
```

Answer Area
Suggested Answer: var translationConfig = SpeechTranslationConfig.FromSubscription(SPEECH_SUBSCRIPTION_KEY, SPEECH_SERVICE_REGION); translationConfig. <input type="text"/> = "en-US"; translationConfig. <input type="text"/> ("de");

by  WinzigWeich at May 11, 2023, 5:58 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 41 DISCUSSION

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. Networking
- D. Properties

Suggested Answer: *B*

Community vote distribution

B (100%)

by  973b658 at June 11, 2023, 1:08 a.m.

EXAM AI-102 TOPIC 3 QUESTION 42 DISCUSSION

DRAG DROP

You are building a transcription service for technical podcasts.

Testing reveals that the service fails to transcribe technical terms accurately.

You need to improve the accuracy of the service.

Which five 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

- Deploy the model.
- Create a Custom Speech project.
- Upload training datasets.
- Create a speech-to-text model.
- Create a Speaker Recognition model.
- Train the model.
- Create a Conversational Language Understanding model.

Answer Area



Answer Area

- Create a Custom Speech project.
- Create a speech-to-text model.
- Upload training datasets.
- Train the model.
- Deploy the model.

Suggested Answer:

- Create a Custom Speech project.
- Create a speech-to-text model.
- Upload training datasets.
- Train the model.
- Deploy the model.

by 973b658 at June 11, 2023, 1:15 a.m.

 EXAM AI-102 TOPIC 3 QUESTION 43 DISCUSSION

You are building a retail kiosk system that will use a custom neural voice.

You acquire audio samples and consent from the voice talent.

You need to create a voice talent profile.

What should you upload to the profile?

- A. a .zip file that contains 10-second .wav files and the associated transcripts as .txt files
- B. a five-minute .flac audio file and the associated transcript as a .txt file
- C. a .wav or .mp3 file of the voice talent consenting to the creation of a synthetic version of their voice
- D. a five-minute .wav or .mp3 file of the voice talent describing the kiosk system

Suggested Answer: C

Community vote distribution

C (75%)

A (25%)

by  [hcgkzsfc](#) at May 2, 2023, 2:20 a.m.

EXAM AI-102 TOPIC 3 QUESTION 44 DISCUSSION

DRAG DROP

You have a Language Understanding solution that runs in a Docker container.

You download the Language Understanding container image from the Microsoft Container Registry (MCR).

You need to deploy the container image to a host computer.

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

- From the host computer, move the package file to the Docker input directory.
- From the Language Understanding portal, export the solution as a package file.
- From the host computer, build the container and specify the output directory.
- From the host computer, run the container and specify the input directory.
- From the Language Understanding portal, retrain the model.

Answer Area



Answer Area

- From the Language Understanding portal, export the solution as a package file.

Suggested Answer:

- From the host computer, move the package file to the Docker input directory.
- From the host computer, run the container and specify the input directory.

by ziggy1117 at June 6, 2023, 10:12 a.m.

EXAM AI-102 TOPIC 3 QUESTION 45 DISCUSSION

HOTSPOT

You are building a text-to-speech app that will use a custom neural voice.

You need to create an SSML file for the app. The solution must ensure that the voice profile meets the following requirements:

- Expresses a calm tone
- Imitates the voice of a young adult female

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

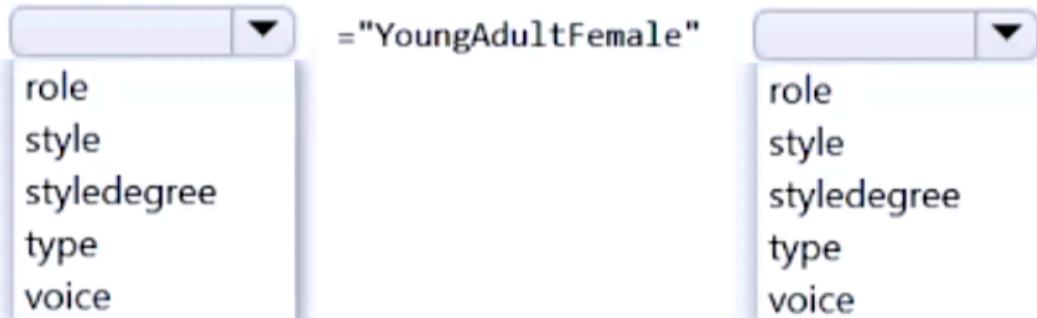
NOTE: Each correct selection is worth one point.

Answer Area

...

```
<mstts:express-as      = "YoungAdultFemale"      = "gentle">
    How can I assist you?
</mstts:express-as>
```

...

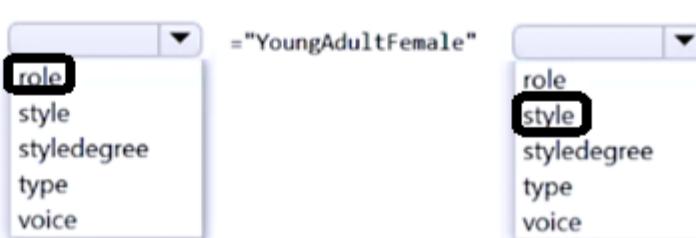


Answer Area

Suggested Answer:

```
<mstts:express-as      = "YoungAdultFemale"      = "gentle">
    How can I assist you?
</mstts:express-as>
```

...



by  WinzigWeich at May 11, 2023, 6:47 p.m.

EXAM AI-102 TOPIC 3 QUESTION 46 DISCUSSION

HOTSPOT -

You have a collection of press releases stored as PDF files.

You need to extract text from the files and perform sentiment analysis.

Which service should you use for each task? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Extract text:

Azure Cognitive Search
Computer Vision
Form Recognizer

Perform sentiment analysis:

Azure Cognitive Search
Computer Vision
Form Recognizer
Language

Answer Area

Suggested Answer:

Extract text:

Azure Cognitive Search
Computer Vision
Form Recognizer

Perform sentiment analysis:

Azure Cognitive Search
Computer Vision
Form Recognizer
Language

 EXAM AI-102 TOPIC 3 QUESTION 47 DISCUSSION

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

Suggested Answer: AC

Community vote distribution

AC (84%)	BE (16%)
----------	----------

by  EliteAllen at May 1, 2023, 2:33 p.m.

EXAM AI-102 TOPIC 3 QUESTION 48 DISCUSSION

HOTSPOT

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($"\\t{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.

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"/>

Answer Area

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

by  973b658 at June 14, 2023, 9:05 a.m.

EXAM AI-102 TOPIC 3 QUESTION 49 DISCUSSION

HOTSPOT

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.cognitive.microsofttranslator.com api-nam.cognitive.microsofttranslator.com api-nam.cognitiveservices.azure.com eastus.api.cognitive.microsoft.com / ?api-version=3.0&to=es

detect
languages
text-to-speech
translate

Answer Area

Suggested Answer:

https:// api.cognitive.microsofttranslator.com api-nam.cognitive.microsofttranslator.com api-nam.cognitiveservices.azure.com eastus.api.cognitive.microsoft.com / ?api-version=3.0&to=es

detect
languages
text-to-speech
 translate

by  973b658 at June 14, 2023, 9:09 a.m.

EXAM AI-102 TOPIC 3 QUESTION 5 DISCUSSION

HOTSPOT -

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.

Hot Area:

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"}
        {languages}
    }

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

    using var audioConfig = AudioConfig.FromDefaultMicrophoneInput();
    using var recognizer = new TranslationRecognizer(config, audioConfig);

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

Suggested Answer:

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"} // Box 1: {"fr", "de", "es"}
        {"French", "Spanish", "German"}
        {languages}
    }

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

    using var audioConfig = AudioConfig.FromDefaultMicrophoneInput();
    using var recognizer = new TranslationRecognizer(config, audioConfig);

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

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);  
}
```

by  [azurelearner666](#) at June 30, 2021, 7:11 p.m.

EXAM AI-102 TOPIC 3 QUESTION 50 DISCUSSION

DRAG DROP

You have a Docker host named Host1 that contains a container base image.

You have an Azure subscription that contains a custom speech-to-text model named model1.

You need to run model1 on Host1.

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

- Retrain the model.
- Request approval to run the container.
- Export model1 to Host1.
- Run the container.
- Configure disk logging.

Answer Area



Answer Area

Suggested Answer:

- Request approval to run the container.
- Retrain the model.
- Run the container.

by  973b658 at June 14, 2023, 9:12 a.m.

EXAM AI-102 TOPIC 3 QUESTION 51 DISCUSSION

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 Conversational Language Understanding. 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 Conversational Language Understanding.

Solution: You create a new utterance for each phrase in the FindContact intent.

Does this meet the goal?

- A. Yes
- B. No

Suggested Answer: A

Community vote distribution

A (61%)

B (39%)

by  973b658 at June 14, 2023, 9:13 a.m.

EXAM AI-102 TOPIC 3 QUESTION 52 DISCUSSION

DRAG DROP

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, train and publish the project.	
From the new Language service instance, import the project file.	
From the new Language service instance, enable custom text classification.	
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.	




Answer Area

From the original Language service instance, export the existing project.

From the new Language service instance, import the project file.

From the new Language service instance, train and publish the project.

Suggested Answer:

by  973b658 at June 14, 2023, 9:18 a.m.

EXAM AI-102 TOPIC 3 QUESTION 53 DISCUSSION

DRAG DROP

You are building a customer support chatbot.

You need to configure the bot to identify the following:

- Code names for internal product development
- Messages that include credit card numbers

The solution must minimize development effort.

Which Azure Cognitive Service for Language feature should you use for each requirement? To answer, drag the appropriate features to the correct requirements. Each feature 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.

Features	Answer Area
Custom named entity recognition (NER)	Identify code names for internal product development: <input type="text"/>
Key phrase extraction	Identify messages that include credit card numbers: <input type="text"/>
Language detection	
Named Entity Recognition (NER)	
Personally Identifiable Information (PII) detection	
Sentiment analysis	

Answer Area
Suggested Answer: Identify code names for internal product development: <input checked="" type="text"/> Custom named entity recognition (NER) Identify messages that include credit card numbers: <input checked="" type="text"/> Personally Identifiable Information (PII) detection

by  973b658 at June 14, 2023, 9:41 a.m.

EXAM AI-102 TOPIC 3 QUESTION 54 DISCUSSION

HOTSPOT

You are building an app by using the Speech SDK. The app will translate speech from French to German by using natural language processing.

You need to define the source language and the output 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.

Answer Area

```
var speechTranslationConfig =  
    SpeechTranslationConfig.FromSubscription(speechKey, speechRegion);  
  
speechTranslationConfig.  
    AddTargetLanguage("fr")  
    SpeechRecognitionLanguage  
    SpeechSynthesisLanguage  
    TargetLanguages  
    VoiceName  
  
speech_translation_config.  
    AddTargetLanguage("de")  
    SpeechRecognitionLanguage  
    SpeechSynthesisLanguage  
    TargetLanguages  
    VoiceName
```

Answer Area

```
var speechTranslationConfig =  
    SpeechTranslationConfig.FromSubscription(speechKey, speechRegion);  
  
speechTranslationConfig.  
    AddTargetLanguage("fr")  
    SpeechRecognitionLanguage  
    SpeechSynthesisLanguage  
    TargetLanguages  
    VoiceName  
  
speech_translation_config.  
    AddTargetLanguage("de")  
    SpeechRecognitionLanguage  
    SpeechSynthesisLanguage  
    TargetLanguages  
    VoiceName
```

Suggested Answer:

by  [jangotango](#) at Oct. 11, 2023, 11:17 p.m.

EXAM AI-102 TOPIC 3 QUESTION 55 DISCUSSION

DRAG DROP

You have a collection of Microsoft Word documents and PowerPoint presentations in German.

You need to create a solution to translate the files to French. The solution must meet the following requirements:

- Preserve the original formatting of the files.
- Support the use of a 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 to complete the solution? To answer, move the appropriate 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.
Perform an asynchronous translation by using the document translation specification.
Generate a 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.
Define a document translation specification that has a French target.

Answer Area



Answer Area	
Upload a glossary file to the container for German files.	
Define a document translation specification that has a French target.	
Perform an asynchronous translation by using the document translation specification.	

Suggested Answer:

by  sl_mslconsulting at Oct. 15, 2023, 7:07 p.m.

EXAM AI-102 TOPIC 3 QUESTION 56 DISCUSSION

You have the following C# function.

```
static void MyFunction(TextAnalyticsClient textAnalyticsClient, string text)
{
    var response = textAnalyticsClient.ExtractKeyPhrases(text);
    Console.WriteLine("Key phrases:");

    foreach (string keyphrase in response.Value)
    {
        Console.WriteLine($"{keyphrase}");
    }
}
```

You call the function by using the following code.

```
MyFunction(textAnalyticsClient, "the quick brown fox jumps over the lazy dog");
```

Which output will you receive?

- A. The quick -
The lazy
- B. the quick brown fox jumps over the lazy dog
- C. jumps over the
- D. quick brown fox
lazy dog

Suggested Answer: D

Community vote distribution

D (100%)

by  sl_mslconsulting at Oct. 15, 2023, 3:11 p.m.

EXAM AI-102 TOPIC 3 QUESTION 57 DISCUSSION

You have the following Python method.

```
def create_resource(resource_name, kind, account_tier, location) :  
    parameters = CognitiveServicesAccount(sku=Sku(name=account_tier), kind=kind, location=location, properties={})  
    result = cogSvcClient.accounts.create(resource_group_name, resource_name, 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", "TextAnalytics", "Standard", "East US")
- B. create_resource("res1", "ContentModerator", "S0", "eastus")
- C. create_resource("res1", "ContentModerator", "Standard", "East US")
- D. create_resource("res1", "TextAnalytics", "S0", "eastus")

Suggested Answer: D

Community vote distribution

D (100%)

by  chenglim at Oct. 27, 2023, 3:45 a.m.

EXAM AI-102 TOPIC 3 QUESTION 58 DISCUSSION

DRAG DROP

You develop a Python app named App1 that performs speech-to-speech translation.

You need to configure App1 to translate English to German.

How should you complete the SpeechTranslationConfig object? 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

- add_target_language
- speech_synthesis_language
- speech_recognition_language
- voice_name

Answer Area

```
def translate_speech_to_text():
    translation_config = speechsdk.translation.SpeechTranslationConfig(subscription=speech_key, region=service_region)
    translation_config. .... Value = "en-US";
    translation_config. .... Value ("de");
```

Suggested Answer:

```
Answer Area
def translate_speech_to_text():
    translation_config = speechsdk.translation.SpeechTranslationConfig(subscription=speech_key, region=service_region)
    translation_config. .... speech_recognition_language = "en-US";
    translation_config. .... speech_synthesis_language ("de");
```

by  [jangotango](#) at Oct. 5, 2023, 6:39 a.m.

EXAM AI-102 TOPIC 3 QUESTION 59 DISCUSSION

HOTSPOT

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

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

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

NOTE: Each correct selection is worth one point.

Answer Area

```
audio_format = speechsdk.audio.(compressed_stream_format=speechsdk.AudioStreamContainerFormat.MP3)
    AudioConfig SetProperty
    AudioStreamFormat
    GetWaveFormatPCM
    PullAudioInputStream

stream = speechsdk.audio.PullAudioInputStream(stream_format=audio_format, pull_stream_callback=callback)
speech_config = speechsdk.SpeechConfig("18c51a87-3a69-47a8-aedc-a54745f708a1", "westus")
audio_config = speechsdk.audio.AudioConfig(stream=stream)

recognizer = speechsdk.(speech_config=speech_config, audio_config=audio_config)
    KeywordRecognizer
    SpeakerRecognizer
    SpeechRecognizer
    SpeechSynthesizer

result = recognizer.recognize_once()
text = result.text
```

Answer Area

```
audio_format = speechsdk.audio.(compressed_stream_format=speechsdk.AudioStreamContainerFormat.MP3)
    AudioConfig SetProperty
AudioStreamFormat
    GetWaveFormatPCM
    PullAudioInputStream

stream = speechsdk.audio.PullAudioInputStream(stream_format=audio_format, pull_stream_callback=callback)
speech_config = speechsdk.SpeechConfig("18c51a87-3a69-47a8-aedc-a54745f708a1", "westus")
audio_config = speechsdk.audio.AudioConfig(stream=stream)

recognizer = speechsdk.(speech_config=speech_config, audio_config=audio_config)
    KeywordRecognizer
    SpeakerRecognizer
SpeechRecognizer
    SpeechSynthesizer

result = recognizer.recognize_once()
text = result.text
```

Suggested Answer:

by  SCyrus at Oct. 5, 2023, 11:49 a.m.

EXAM AI-102 TOPIC 3 QUESTION 6 DISCUSSION

DRAG DROP -

You train a Custom Vision model used in a mobile app.

You receive 1,000 new images that do not have any associated data.

You need to use the images to retrain the model. The solution must minimize how long it takes to retrain the model.

Which three actions should you perform in the Custom Vision portal? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Upload the images by category.

Get suggested tags.

Upload all the images.

Group the images locally into category folders.

Review the suggestions and confirm the tags.

Tag the images manually.

Answer Area



Suggested Answer:

Actions

Get suggested tags.

Upload all the images.

Review the suggestions and confirm the tags.

Answer Area

Group the images locally into category folders.

Upload the images by category.

Tag the images manually.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/getting-started-build-a-classifier>

by SuperPetey at Aug. 24, 2021, 9:51 a.m.

EXAM AI-102 TOPIC 3 QUESTION 60 DISCUSSION

HOTSPOT

You are building a chatbot.

You need to use the Content Moderator API to identify aggressive and sexually explicit language.

Which three settings should you configure? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Content Moderator - Moderate Text - Screen

The operation detects profanity in more than 100 languages and match against custom and shared blacklists.

Host

Name

Resource Name

Query parameters

autocorrect [✖ Remove parameter](#)

PII [✖ Remove parameter](#)

listId [✖ Remove parameter](#)

classify [✖ Remove parameter](#)

language [✖ Remove parameter](#)

[✚ Add parameter](#)

Headers

Content-Type [✖ Remove header](#)

Ocp-Apim-Subscription-Key

Answer Area

Content Moderator - Moderate

Text - Screen

The operation detects profanity in more than 100 languages and match against custom and shared blacklists.

Host

Name

Resource Name

Query parameters

Suggested Answer:

autocorrect [✖ Remove parameter](#)

PII [✖ Remove parameter](#)

listid [✖ Remove parameter](#)

classify [✖ Remove parameter](#)

language [✖ Remove parameter](#)

[✚ Add parameter](#)

Headers

Content-Type [✖ Remove header](#)

Ocp-Apim-Subscription-Key

by  audlindr at Feb. 29, 2024, 7:57 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 61 DISCUSSION

You are developing an app that will use the Decision and Language APIs.

You need to provision resources for the app. The solution must ensure that each service is accessed by using a single endpoint and credential.

Which type of resource should you create?

- A. Language
- B. Speech
- C. Azure Cognitive Services
- D. Content Moderator

Suggested Answer: C

Community vote distribution

C (100%)

by  GHill1982 at March 10, 2024, 7:29 a.m.

 EXAM AI-102 TOPIC 3 QUESTION 62 DISCUSSION

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

Suggested Answer: C

Community vote distribution

C (100%)

by  GHill1982 at March 10, 2024, 7:32 a.m.

 EXAM AI-102 TOPIC 3 QUESTION 63 DISCUSSION

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

Suggested Answer: *D*

Community vote distribution

D (100%)

by [deleted] at *March 13, 2024, 5:26 p.m.*

 EXAM AI-102 TOPIC 3 QUESTION 64 DISCUSSION

You have an Azure subscription that contains a multi-service Azure Cognitive Services Translator resource named Translator1.

You are building an app that will translate text and documents by using Translator1.

You need to create the REST API request for the app.

Which headers should you include in the request?

- A. the access control request, the content type, and the content length
- B. the subscription key and the client trace ID
- C. the resource ID and the content language
- D. the subscription key, the subscription region, and the content type

Suggested Answer: D

Community vote distribution

D (100%)

by  audlindr at Feb. 29, 2024, 8:10 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 65 DISCUSSION

You have a file share that contains 5,000 images of scanned invoices.

You need to analyze the images. The solution must extract the following data:

- Invoice items
- Sales amounts
- Customer details

What should you use?

- A. Custom Vision
- B. Azure AI Computer Vision
- C. Azure AI Immersive Reader
- D. Azure AI Document Intelligence

Suggested Answer: D

Community vote distribution

D (100%)

by  zoha_zoh at March 1, 2024, 9:09 a.m.

EXAM AI-102 TOPIC 3 QUESTION 66 DISCUSSION

HOTSPOT

You are developing a text processing solution.

You have the function shown below.

```
def get_key_words(textAnalyticsClient, text):

    response = textAnalyticsClient.recognize_entities(documents = [text])[0]
    print("Key Words:")
    for entity in response.entities:
        print("\t\t", 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.

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"/>

Answer Area

Statements

Suggested Answer: 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
<input type="radio"/>	<input checked="" type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

by  Harry300 at March 1, 2024, 7:14 p.m.

EXAM AI-102 TOPIC 3 QUESTION 67 DISCUSSION

HOTSPOT

You are developing a text processing solution.

You develop the following method.

```
def get_key_phrases(text_analytics_client, text):
    response = text_analytics_client.extract_key_phrases(text, language="en")
    print('Key phrases:')
    for keyphrase in response.key_phrases:
        print(f'\t{keyphrase}')
```

You call the method by using the following code.

```
get_key_phrases(text_analytics_client, "the cat sat on the mat")
```

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 call will output key phrases from the input string to the console.	<input type="radio"/>	<input type="radio"/>
The output will contain the following words: the, cat, sat, on, and mat.	<input type="radio"/>	<input type="radio"/>
The output will contain the confidence level for key phrases.	<input type="radio"/>	<input type="radio"/>

Answer Area

Statements

Suggested Answer: The call will output key phrases from the input string to the console.

Yes No

The output will contain the following words: the, cat, sat, on, and mat.

Yes No

The output will contain the confidence level for key phrases.

Yes No

EXAM AI-102 TOPIC 3 QUESTION 68 DISCUSSION

HOTSPOT

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

You have a method named append_to_transcript_file 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

```
speech_key = os.environ['SPEECH_SUBSCRIPTION_KEY']
service_region = os.environ['SPEECH_SERVICE_REGION']
def translate_speech():

    translation_config = speechsdk.translation.SpeechTranslationConfig(
        subscription=speech_key, region=service_region)
    translation_config.speech_recognition_language = "en-GB"
    languages = [
        ('en-GB')
        ('fr', 'de', 'es')
        ('French', 'Spanish', 'German')
        ('languages')]

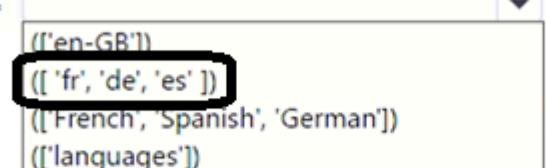
    for language in languages: translation_config.add_target_language(language)
    audio_config = speechsdk.audio.AudioConfig(use_default_microphone=True)
    recognizer = speechsdk.translation.
        IntentRecognizer()
        SpeakerRecognizer()
        SpeechSynthesizer()
        TranslationRecognizer()

    translation_config=translation_config, audio_config=audio_config)

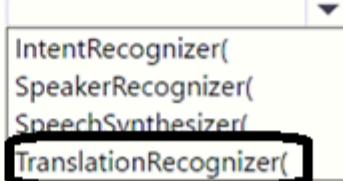
    result = recognizer.recognize_once()
    if result.reason == speechsdk.ResultReason.TranslatedSpeech:
        append_to_transcript_file(result.text, "en")
        for language in result.translations:
            append_to_transcript_file(result.translations[language], language)
```

Answer Area

```
speech_key = os.environ['SPEECH_SUBSCRIPTION_KEY']
service_region = os.environ['SPEECH_SERVICE_REGION']

def translate_speech():
    translation_config = speechsdk.translation.SpeechTranslationConfig(
        subscription=speech_key, region=service_region)
    translation_config.speech_recognition_language = "en-GB"
    languages = 
        ([ 'en-GB'])
        ([ 'fr', 'de', 'es' ])
        ([ French , Spanish , German ])
        ([ languages ])
```

Suggested Answer:

```
for language in languages: translation_config.add_target_language(language)
audio_config = speechsdk.audio.AudioConfig(use_default_microphone=True)
recognizer = speechsdk.translation.
    IntentRecognizer()
    SpeakerRecognizer()
    SpeechSynthesizer()
    TranslationRecognizer()

translation_config=translation_config, audio_config=audio_config)
result = recognizer.recognize_once()
if result.reason == speechsdk.ResultReason.TranslatedSpeech:
    append_to_transcript_file(result.text, "en")
    for language in result.translations:
        append_to_transcript_file(result.translations[language], language)
```

by  Murtuza at March 20, 2024, 8:26 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 69 DISCUSSION

You are developing an app that will use the text-to-speech capability of the Azure AI Speech service. The app will be used in motor vehicles.

You need to optimize the quality of the synthesized voice output.

Which Speech Synthesis Markup Language (SSML) attribute should you configure?

- A. the style attribute of the ms tts: express-as element
- B. the effect attribute of the voice element
- C. the pitch attribute of the prosody element
- D. the level attribute of the emphasis element

Suggested Answer: *B*

Community vote distribution

B (100%)

by  Harry300 at March 2, 2024, 8:47 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 7 DISCUSSION

You are building a Conversational Language Understanding model for an e-commerce chatbot. Users can speak or type their billing address when prompted by the chatbot.

You need to construct an entity to capture billing addresses.

Which entity type should you use?

- A. machine learned
- B. Regex
- C. list
- D. Pattern.any

Suggested Answer: A

Community vote distribution

A (100%)

by  Internal_Koala at Sept. 5, 2022, 5 a.m.

 EXAM AI-102 TOPIC 3 QUESTION 70 DISCUSSION

You are designing a content management system.

You need to ensure that the reading experience is optimized for users who have reduced comprehension and learning differences, such as dyslexia. The solution must minimize development effort.

Which Azure service should you include in the solution?

- A. Azure AI Immersive Reader
- B. Azure AI Translator
- C. Azure AI Document Intelligence
- D. Azure AI Language

Suggested Answer: A

Community vote distribution

A (100%)

by  chandiochan at March 3, 2024, 2:04 a.m.

EXAM AI-102 TOPIC 3 QUESTION 71 DISCUSSION

HOTSPOT

You are building an app that will answer customer calls about the status of an order. The app will query a database for the order details and provide the customers with a spoken response.

You need to identify which Azure AI service APIs to use. The solution must minimize development effort.

Which object should you use for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Convert customer calls into text queries:

- SpeechRecognizer
- SpeechSynthesizer
- TranslationRecognizer
- VoiceProfileClient

Provide customers with the order details:

- SpeechRecognizer
- SpeechSynthesizer
- TranslationRecognizer
- VoiceProfileClient

Answer Area

Convert customer calls into text queries:

- SpeechRecognizer
- SpeechSynthesizer
- TranslationRecognizer
- VoiceProfileClient

Suggested Answer:

Provide customers with the order details:

- SpeechRecognizer
- SpeechSynthesizer
- TranslationRecognizer
- VoiceProfileClient

by  Harry300 at March 1, 2024, 7:21 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 72 DISCUSSION

You have an Azure AI service model named Model1 that identifies the intent of text input.

You develop a Python app named App1.

You need to configure App1 to use Model1.

Which package should you add to App1?

- A. azure-cognitiveservices-language-textanalytics
- B. azure-ai-language-conversations
- C. azure-mgmt-cognitiveservices
- D. azure-cognitiveservices-speech

Suggested Answer: *B*

Community vote distribution

B (87%)	7%
---------	----

by  [warrior1234](#) at March 2, 2024, 2:10 p.m.

EXAM AI-102 TOPIC 3 QUESTION 73 DISCUSSION

HOTSPOT

You are building an app that will automatically translate speech from English to French, German, and Spanish by using Azure AI service.

You need to define the output languages and configure the Azure AI Speech service.

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

```
speech_key, service_region = os.environ['SPEECH__SERVICE__KEY'], os.environ['SPEECH__SERVICE__REGION']
languages = [
    ['en-GB'],
    {'en','fr','de','es'},
    ['fr','de','es'],
    {"French","Spanish","German"}]

def translate_speech_to_text():
    translation_config = speechsdk.translation.SpeechTranslationConfig(subscription=speech_key, region=service_region)
    for lang in languages:
        translation_config.add_target_language(lang)
        for lang in languages:
            translation_config.add_target_language(lang)
    recognizer = speechsdk.translation.(
        ... (translation_config=translation_config)
        IntentRecognizer
        SpeakerRecognizer
        SpeechSynthesizer
        TranslationRecognizer
```

Answer Area

```
speech_key, service_region = os.environ['SPEECH__SERVICE__KEY'], os.environ['SPEECH__SERVICE__REGION']
languages = [
    ['en-GB'],
    {'en','fr','de','es'},
    ['fr','de','es'],
    {"French","Spanish","German"}]

def translate_speech_to_text():
    translation_config = speechsdk.translation.SpeechTranslationConfig(subscription=speech_key, region=service_region)
    for lang in languages:
        translation_config.add_target_language(lang)
        for lang in languages:
            translation_config.add_target_language(lang)
    recognizer = speechsdk.translation.(
        ... (translation_config=translation_config)
        IntentRecognizer
        SpeakerRecognizer
        SpeechSynthesizer
        TranslationRecognizer)
```

Suggested Answer:

by  Razvan_C at March 4, 2024, 6:44 a.m.

EXAM AI-102 TOPIC 3 QUESTION 74 DISCUSSION

DRAG DROP

You plan to implement an Azure AI Search resource that will use custom skill based on sentiment analysis.

You need to create a custom model and configure Azure AI Search use the model.

Which five 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
Create an endpoint for the model.	
Rerun the indexer to enrich the index.	
Create an Azure Machine Learning workspace.	
Create and train the model in the Azure Machine Learning studio.	
Provision an Azure AI Services resource and obtain the endpoint.	
Connect the custom skill the endpoint.	

Answer Area	
Create an Azure Machine Learning workspace.	
Provision an Azure AI Services resource and obtain the endpoint.	
Suggested Answer: Connect the custom skill the endpoint.	
Create and train the model in the Azure Machine Learning studio.	
Rerun the indexer to enrich the index.	

by  Delta64 at March 2, 2024, 4:55 p.m.

EXAM AI-102 TOPIC 3 QUESTION 75 DISCUSSION

HOTSPOT

You have a collection of press releases stored as PDF files.

You need to extract text from the files and perform sentiment analysis.

Which service should you use for each task? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Extract text:

- Azure AI Search
- Azure AI Vision
- Azure AI Document Intelligence

Perform sentiment analysis:

- Azure Cognitive Search
- Azure AI Computer Vision
- Azure AI Document Intelligence
- Azure AI Language

Answer Area

Extract text:

- Azure AI Search
- Azure AI Vision
- Azure AI Document Intelligence

Suggested Answer:

Perform sentiment analysis:

- Azure Cognitive Search
- Azure AI Computer Vision
- Azure AI Document Intelligence
- Azure AI Language

by  audlindr at March 2, 2024, 7 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 77 DISCUSSION

You are developing an app that will use the Speech and Language APIs.

You need to provision resources for the app. The solution must ensure that each service is accessed by using a single endpoint and credential.

Which type of resource should you create?

- A. Azure AI Language
- B. Azure AI Speech
- C. Azure AI Services
- D. Azure AI Content Safety

Suggested Answer: C

Community vote distribution

C (100%)

by  5503824 at July 18, 2024, 11:15 a.m.

EXAM AI-102 TOPIC 3 QUESTION 78 DISCUSSION

HOTSPOT

You are building an app that will automatically translate speech from English to French, German, and Spanish by using Azure AI service.

You need to define the output languages and configure the Azure AI Speech service.

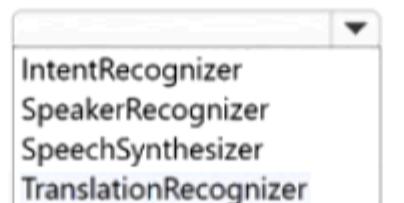
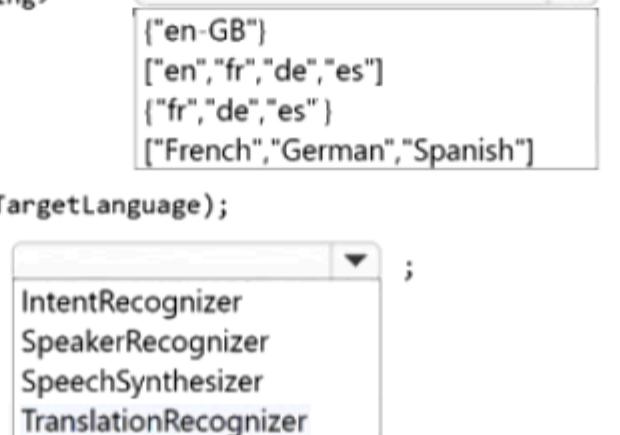
How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
static async Task TranslateSpeechAsync()
{
    var config = SpeechTranslationConfig.FromSubscription(SPEECH_SUBSCRIPTION_KEY, SPEECH_SERVICE_REGION);
    var languages = new List<string>
    {
        ["en-GB"]
        ["en", "fr", "de", "es"]
        {"fr", "de", "es"}
        ["French", "German", "Spanish"]
    };
    languages.ForEach(config.AddTargetLanguage);

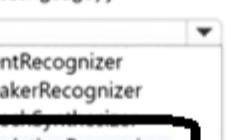
    using var recognizer = new
    ...
}
```



Answer Area

```
static async Task TranslateSpeechAsync()
{
    var config = SpeechTranslationConfig.FromSubscription(SPEECH_SUBSCRIPTION_KEY, SPEECH_SERVICE_REGION);
    var languages = new List<string>
    {
        ["en-GB"]
        ["en", "fr", "de", "es"]
        {"fr", "de", "es"} (highlighted)
        ["French", "German", "Spanish"]
    };
    languages.ForEach(config.AddTargetLanguage);

    using var recognizer = new
    ...
}
```



Suggested Answer:

by moonlightc at Aug. 14, 2024, 11:44 p.m.

EXAM AI-102 TOPIC 3 QUESTION 79 DISCUSSION

You are developing a text processing solution.

You have the following function.

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

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

You call the function and use the following string as the second argument.

Our tour of London included a visit to Buckingham Palace

What will the function return?

- A. London and Buckingham Palace only
- B. Tour and visit only
- C. London and Tour only
- D. Our tour of London included visit to Buckingham Palace

Suggested Answer: A

Community vote distribution

A (100%)

by  a8da4af at Nov. 4, 2024, 9:36 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 79 DISCUSSION

You are building an Azure AI Language Understanding solution.

You discover that many intents have similar utterances containing airport names or airport codes.

You need to minimize the number of utterances used to train the model.

Which type of custom entity should you use?

- A. Pattern.any
- B. machine-learning
- C. regular expression
- D. list

Suggested Answer: *D*

Community vote distribution

D (65%)	A (35%)
---------	---------

by  krzkrzkra at July 6, 2024, 3:16 p.m.

 EXAM AI-102 TOPIC 3 QUESTION 8 DISCUSSION

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.Knowledgebase.CreateAsync method.
- C. Create a list of QnADTO objects that represents data from the WebJob.
- D. Create a CreateKbDTO object.

Suggested Answer: BD

Community vote distribution

BD (100%)

by  czmiel24 at Aug. 22, 2021, 1:24 p.m.

EXAM AI-102 TOPIC 3 QUESTION 80 DISCUSSION

You have the following Python function.

```
def my_function(textAnalyticsClient, text):  
    response = textAnalyticsClient.extract_key_phrases(documents = [text])[0]  
    print("Key Phrases:")  
    for phrase in response.key_phrases:  
        print(phrase)
```

You call the function by using the following code.

```
my_function(text_analytics_client, "the quick brown fox jumps over the lazy dog")
```

Following 'Key phrases', what output will you receive?

- A. The quick -
The lazy
- B. jumps over the
- C. quick brown fox
lazy dog
- D. the quick brown fox jumps over the lazy dog

Suggested Answer: C

Community vote distribution

C (100%)

by  [Terk0](#) at Nov. 28, 2024, 11:56 a.m.

 EXAM AI-102 TOPIC 3 QUESTION 81 DISCUSSION

You have an Azure subscription.

You need to deploy an Azure AI Search resource that will recognize geographic locations.

Which built-in skill should you include in the skillset for the resource?

- A. AzureOpenAIEmbeddingSkill
- B. DocumentExtractionSkill
- C. EntityRecognitionSkill
- D. EntityLinkingSkill

Suggested Answer: C

Community vote distribution

C (100%)

by  Cndvrs at Oct. 28, 2024, 8:38 a.m.

EXAM AI-102 TOPIC 3 QUESTION 9 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

```
...  
var endpoint = "https://api.cognitive.microsofttranslator.com/translate";  
"https://api.cognitive.microsofttranslator.com/transliterate"  
"https://api-apc.cognitive.microsofttranslator.com/detect"  
"https://api-nam.cognitive.microsofttranslator.com/detect"  
"https://api-nam.cognitive.microsofttranslator.com/translate"  
  
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 + "?from=en";  
var uri = endpoint + "?suggestedFrom=en";  
var uri = endpoint + "?to=en";  
  
HttpResponseMessage response;  
var content = new StringContent(body, Encoding.UTF8, "application/json");  
var response = await client.PutAsync(uri, content);  
...
```

Suggested Answer:

Answer Area

```
    . . .
var endpoint = [
    "https://api.cognitive.microsofttranslator.com/translate",
    "https://api.cognitive.microsofttranslator.com/transliterate",
    "https://api-apc.cognitive.microsofttranslator.com/detect",
    "https://api-nam.cognitive.microsofttranslator.com/detect",
    "https://api-nam.cognitive.microsofttranslator.com/translate"
];
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 + "?from=en";
var uri = endpoint + "?suggestedFrom=en";
var uri = endpoint + "?to=en";

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

by  [alan007](#) at Aug. 23, 2021, 4:51 a.m.

 EXAM AI-102 TOPIC 4 QUESTION 1 DISCUSSION

HOTSPOT -

You are developing a text processing solution.

You develop the following method.

```
static void GetKeyPhrases(TextAnalyticsClient textAnalyticsClient, string text)
{
    var response = textAnalyticsClient.ExtractKeyPhrases(text);
    Console.WriteLine("Key phrases:");

    foreach (string keyphrase in response.Value)
    {
        Console.WriteLine($"\\t{keyphrase}");
    }
}
```

You call the method by using the following code.

```
GetKeyPhrases(textAnalyticsClient, "the cat sat on the mat");
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
------------	-----	----

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

The output will contain the following words: the, cat, sat, on, and mat.

The output will contain the confidence level for key phrases.

Suggested Answer:

Answer Area

Statements	Yes	No
------------	-----	----

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

The output will contain the following words: the, cat, sat, on, and mat.

The output will contain the confidence level for key phrases.

Box 1: Yes -

The Key Phrase Extraction API evaluates unstructured text, and for each JSON document, returns a list of key phrases.

Box 2: No -

'the' is not a key phrase.

This capability is useful if you need to quickly identify the main points in a collection of documents. For example, given input text "The food was delicious and there were wonderful staff", the service returns the main talking points: "food" and "wonderful staff".

Box 3: No -

Key phrase extraction does not have confidence levels.

Reference:

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

 EXAM AI-102 TOPIC 4 QUESTION 10 DISCUSSION

You are developing an application that will use Azure Cognitive Search for internal documents.

You need to implement document-level filtering for Azure Cognitive Search.

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

NOTE: Each correct selection is worth one point.

- A. Send Azure AD access tokens with the search request.
- B. Retrieve all the groups.
- C. Retrieve the group memberships of the user.
- D. Add allowed groups to each index entry.
- E. Create one index per group.
- F. Supply the groups as a filter for the search requests.

Suggested Answer: CDF

Community vote distribution

CDF (80%)	10%	10%
-----------	-----	-----

by  [not_a_robot](#) at Aug. 4, 2022, 9:52 a.m.

 EXAM AI-102 TOPIC 4 QUESTION 11 DISCUSSION

You have an Azure Cognitive Search solution and an enrichment pipeline that performs Sentiment Analysis on social media posts.

You need to define a knowledge store that will include the social media posts and the Sentiment Analysis results.

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

NOTE: Each correct selection is worth one point.

- A. storageContainer
- B. storageConnectionString
- C. files
- D. tables
- E. objects

Suggested Answer: BE

Community vote distribution

BE (65%)	14%	14%	7%
----------	-----	-----	----

by  [mk1967](#) at Sept. 8, 2022, 8:45 a.m.

EXAM AI-102 TOPIC 4 QUESTION 12 DISCUSSION

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You need to create an Azure resource named solution12345678 that will index a sample database named realestate-us-sample. The solution must ensure that users can search the index in English for people, organizations, and locations.

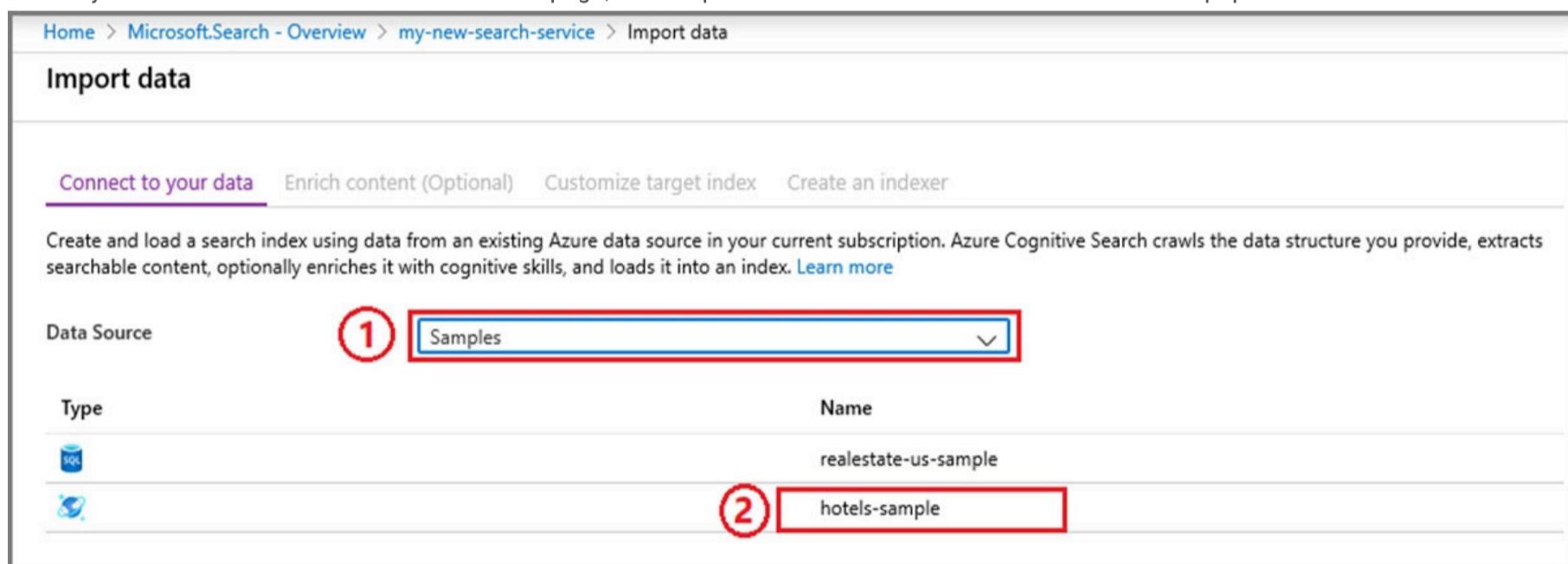
To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Step 1 - Start the Import data wizard and create a data source

1. Sign in to the Azure portal with your Azure account.

2. Find your search service and on the Overview page, click Import data on the command bar to create and populate a search index.



Home > Microsoft.Search - Overview > my-new-search-service > Import data

Import data

Connect to your data Enrich content (Optional) Customize target index Create an indexer

Create and load a search index using data from an existing Azure data source in your current subscription. Azure Cognitive Search crawls the data structure you provide, extracts searchable content, optionally enriches it with cognitive skills, and loads it into an index. [Learn more](#)

Data Source **① Samples**

Type	Name
	realestate-us-sample
	② hotels-sample

3. In the wizard, click Connect to your data, and select the sample database named realestate-us-sample

Step 2 - Skip the "Enrich content" page

The wizard supports the creation of an AI enrichment pipeline for incorporating the Cognitive Services AI algorithms into indexing.

We'll skip this step for now, and move directly on to Customize target index.

Step 3 - Configure index -

The solution must ensure that users can search the index in English for people, organizations, and locations.

Configure Searchable for the fields people, organizations, and locations.

Import data

Connect to your data Enrich content (Optional) Customize target index* Create an indexer

We provided a default index for you. You can delete the fields you don't need. Everything is editable, but once the index is built, deleting or changing existing fields will require re-indexing your documents.

Index name *

hotels-sample-index

Key *

Hotellid

Suggerer name

sg

Search mode

+ Add field

+ Add subfield

Delete

Field name	Type	Retrievable	Filterable	Sortable	Facetable	Searchable	Analyzer	Suggerer
Hotellid	Edm.String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HotelName	Edm.String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Description	Edm.String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Reference:

<https://docs.microsoft.com/en-us/azure/search/search-get-started-portal>

by rdemontis at Nov. 6, 2023, 9:57 p.m.

EXAM AI-102 TOPIC 4 QUESTION 13 DISCUSSION

HOTSPOT

You create a knowledge store for Azure Cognitive Search by using the following JSON.

```
"knowledgeStore": {
    "storageConnectionString": "DefaultEndpointsProtocol=https;AccountName=<Acct Name>;AccountKey=<Acct Key>;",
    "projections": [
        {
            "tables": [
                {
                    "tableName": "unrelatedDocument",
                    "generatedKeyName": "Documentid",
                    "source": "/document/pbiShape"
                },
                {
                    "tableName": "unrelatedKeyPhrases",
                    "generatedKeyName": "KeyPhraseid",
                    "source": "/document/pbiShape/keyPhrases"
                }
            ],
            "objects": [
            ],
            "files": []
        },
        {
            "tables": [],
            "objects": [
                {
                    "storageContainer": "unrelatedocrtext",
                    "source": null,
                    "sourceContext": "/document/normalized_images/*/text",
                    "inputs": [
                        {
                            "name": "ocrText",
                            "source": "/document/normalized_images/*/text"
                        }
                    ]
                },
                {
                    "storageContainer": "unrelatedocrlayout",
                    "source": null,
                    "sourceContext": "/document/normalized_images/*/layoutText",
                    "inputs": [
                        {
                            "name": "ocrLayoutText",
                            "source": "/document/normalized_images/*/layoutText"
                        }
                    ]
                }
            ],
            "files": []
        }
    ]
}
```

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.

Answer Area

There will be [answer choice].

no projection groups
 one projection group
 two projection groups
 four projection groups

Normalized images will [answer choice].

not be projected
 be projected to Azure Blob storage
 be projected to Azure File storage
 be saved to an Azure Table storage

Answer Area

There will be [answer choice].

no projection groups
 one projection group
 two projection groups
 four projection groups

Normalized images will [answer choice].

not be projected
 be projected to Azure Blob storage
 be projected to Azure File storage
 be saved to an Azure Table storage

Suggested Answer:

by  Tin_Tin at June 20, 2023, 8:57 a.m.

EXAM AI-102 TOPIC 4 QUESTION 14 DISCUSSION

You plan to 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 UserMessages 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. Sortable and Retrievable
- B. Filterable and Retrievable
- C. Searchable and Facetable
- D. Searchable and Retrievable

Suggested Answer: D

Community vote distribution

D (100%)

by  [MaliSanFuu](#) at May 16, 2023, 9:27 a.m.

EXAM AI-102 TOPIC 4 QUESTION 15 DISCUSSION

You have the following data sources:

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

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

What should you do?

- A. Export the data in Finance to Azure Data Lake Storage.
- B. Configure multiple read replicas for the data in Sales.
- C. Ingest the data in Logs into Azure Data Explorer.
- D. Migrate the data in HR to Azure Blob storage.

Suggested Answer: A

Community vote distribution

A (93%) 7%

by  [8_LAW_](#) at Oct. 30, 2023, 8:43 p.m.

EXAM AI-102 TOPIC 4 QUESTION 16 DISCUSSION

HOTSPOT

You plan to provision Azure Cognitive Services resources by using the following method.

You need to create a Standard tier resource that will convert scanned receipts into text.

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

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",

ComputerVision
CustomVision.Prediction
CustomVision.Training
FormRecognizer

"eastus", "S1")
"useast", "S1")
"S0", "eastus")
"S0", "useast")

Answer Area

Suggested Answer:

provision_resource("res1",

ComputerVision
CustomVision.Prediction
CustomVision.Training
FormRecognizer

"eastus", "S1")
"useast", "S1")
"S0", "eastus")
"S0", "useast")

by  Murtuza at March 22, 2024, 1:49 p.m.

EXAM AI-102 TOPIC 4 QUESTION 17 DISCUSSION

HOTSPOT

You have an app named App1 that uses Azure AI Document Intelligence to analyze medical records and provide pharmaceutical dosage recommendations for patients.

You send a request to App1 and receive the following response.

```
{
  "status": "succeeded",
  "createdDateTime": "2023-09-14T21:01:02Z",
  "lastUpdatedDateTime": "2023-09-14T21:01:03Z",
  "analyzeResult": {
    "apiVersion": "2023-07-31",
    "modelId": "prebuilt-healthInsuranceCard.us",
    "stringIndexType": "utf16CodeUnit",
    "content": "Blood Pressure 118/72",
    "pages": [
      {
        ...
        "words": [
          {
            "content": "Blood",
            "polygon": [ ... ],
            "confidence": 0.766,
            "span": { ... }
          },
          {
            "content": "Pressure",
            "polygon": [ ... ],
            "confidence": 0.716,
            "span": { ... }
          },
          {
            "content": "118/72",
            "polygon": [ ... ],
            "confidence": 0.761,
            "span": { ... }
          }
        ],
        ...
      }
    ],
    "documents": [
      {
        "docType": "healthInsuranceCard.us",
        "boundingRegions": [ ... ]
      }
    ],
    "fields": {},
    "confidence": 1,
    "spans": [ ... ]
  }
}
```

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 chosen model is suitable for the intended use case.	<input type="radio"/>	<input type="radio"/>
The text content was recognized with greater than 70 percent confidence.	<input type="radio"/>	<input type="radio"/>
The form elements were recognized with greater than 70 percent confidence.	<input type="radio"/>	<input type="radio"/>

Answer Area

Statements	Yes	No
The chosen model is suitable for the intended use case.	<input type="radio"/>	<input checked="" type="radio"/>
The text content was recognized with greater than 70 percent confidence.	<input checked="" type="radio"/>	<input type="radio"/>
The form elements were recognized with greater than 70 percent confidence.	<input checked="" type="radio"/>	<input type="radio"/>

by [deleted] at March 13, 2024, 6:06 p.m.

EXAM AI-102 TOPIC 4 QUESTION 18 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure AI Document Intelligence resource named DI1.

You build an app named App1 that analyzes PDF files for handwritten content by using DI1.

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.

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 >  )
        {
            Console.WriteLine($"Handwritten content found:");
            foreach (DocumentSpan span in style.Spans)

```

fileUri);
 "prebuilt-contract",
 "prebuilt-read".

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 >  )
        {
            Console.WriteLine($"Handwritten content found:");
            foreach (DocumentSpan span in style.Spans)

```

fileUri);
 "prebuilt-contract",
 "prebuilt-read".

Suggested Answer:

```
        if (isHandwritten && style.Confidence >  )
        {
            Console.WriteLine($"Handwritten content found:");
            foreach (DocumentSpan span in style.Spans)

```

by  audlindr at Feb. 29, 2024, 8:44 p.m.

 EXAM AI-102 TOPIC 4 QUESTION 19 DISCUSSION

You have an app named App1 that uses a custom Azure AI Document Intelligence model to recognize contract documents.

You need to ensure that the model supports an additional contract format. The solution must minimize development effort.

What should you do?

- A. Lower the confidence score threshold of App1.
- B. Create a new training set and add the additional contract format to the new training set. Create and train a new custom model.
- C. Add the additional contract format to the existing training set. Retrain the model.
- D. Lower the accuracy threshold of App1.

Suggested Answer: C

Community vote distribution

C (100%)

by [deleted] at *March 13, 2024, 6:10 p.m.*

 EXAM AI-102 TOPIC 4 QUESTION 2 DISCUSSION

You deploy a web app that is used as a management portal for indexing in Azure Cognitive Search. The app is configured to use the primary admin key.

During a security review, you discover unauthorized changes to the search index. You suspect that the primary access key is compromised.

You need to prevent unauthorized access to the index management endpoint. The solution must minimize downtime.

What should you do next?

- A. Regenerate the primary admin key, change the app to use the secondary admin key, and then regenerate the secondary admin key.
- B. Change the app to use a query key, and then regenerate the primary admin key and the secondary admin key.
- C. Regenerate the secondary admin key, change the app to use the secondary admin key, and then regenerate the primary key.
- D. Add a new query key, change the app to use the new query key, and then delete all the unused query keys.

Suggested Answer: C

Community vote distribution

C (89%) 7%

by  DanielCCH at June 8, 2021, 2:16 p.m.

EXAM AI-102 TOPIC 4 QUESTION 20 DISCUSSION

HOTSPOT

You have an Azure subscription.

You need to deploy an Azure AI Document Intelligence resource.

How should you complete the Azure Resource Manager (ARM) template? To answer, select the appropriate options in the answer area.

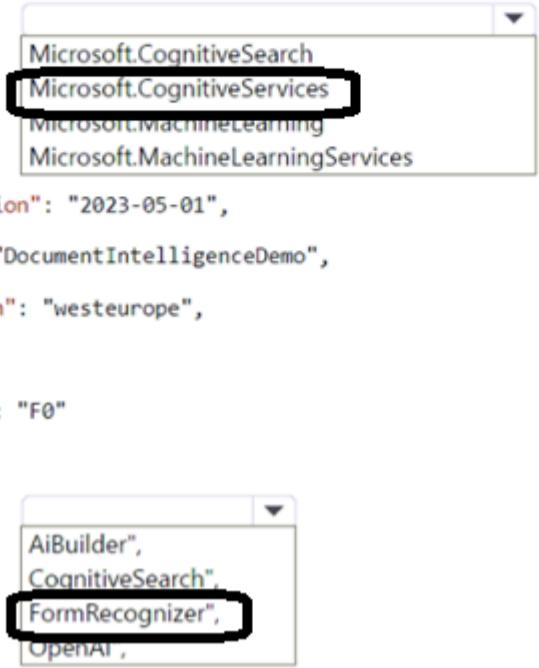
NOTE: Each correct selection is worth one point.

Answer Area

```
"$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",
"contentVersion": "1.0.0.0",
"parameters": {},
"variables": {},
"resources": [
{
  "type": "/accounts",
  "apiVersion": "2023-05-01",
  "name": "DocumentIntelligenceDemo",
  "location": "westeurope",
  "sku": {
    "name": "F0"
  },
  "kind": "AiBuilder",
  "CognitiveSearch",
  "FormRecognizer",
  "OpenAI",
}
]
```

Answer Area

```
"$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",
"contentVersion": "1.0.0.0",
"parameters": {},
"variables": {},
"resources": [
{
    "type": "Microsoft.CognitiveSearch/accounts",
    "name": "DocumentIntelligenceDemo",
    "location": "westeurope",
    "sku": {
        "name": "F0"
    },
    "kind": "CognitiveSearch",
    "dependsOn": []
}
]
```



Suggested Answer:

```
"apiVersion": "2023-05-01",
"name": "DocumentIntelligenceDemo",
"location": "westeurope",
"sku": {
```

```
    "name": "F0"
},
```

```
    "kind": "
```

```
AiBuilder",
CognitiveSearch",
FormRecognizer",
OpenAI ,
```

```
}
```

```
]
```

```
}
```

by  audlindr at March 2, 2024, 7:02 p.m.

 EXAM AI-102 TOPIC 4 QUESTION 21 DISCUSSION

You are building an app named App1 that will use Azure AI Document Intelligence to extract the following data from scanned documents:

- Shipping address
- Billing address
- Customer ID
- Amount due
- Due date
- Total tax
- Subtotal

You need to identify which model to use for App1. The solution must minimize development effort.

Which model should you use?

- A. custom extraction model
- B. contract
- C. invoice
- D. general document

Suggested Answer: C

Community vote distribution

C (100%)

by  rober13 at March 20, 2024, 7:52 a.m.

 EXAM AI-102 TOPIC 4 QUESTION 22 DISCUSSION

You have the following data sources:

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

You need to ensure that you can search all the data by using the Azure AI Search REST API.

What should you do?

- A. Migrate the data in HR to Azure Blob storage.
- B. Migrate the data in HR to the on-premises SQL server.
- C. Export the data in Finance to Azure Data Lake Storage.
- D. Migrate the data in Sales to the MongoDB API.

Suggested Answer: C

Community vote distribution

C (100%)

by  anto69 at July 7, 2024, 8:26 a.m.

 EXAM AI-102 TOPIC 4 QUESTION 23 DISCUSSION

You are building an app that will process scanned expense claims and extract and label the following data:

- Merchant information
- Time of transaction
- Date of transaction
- Taxes paid
- Total cost

You need to recommend an Azure AI Document Intelligence model for the app. The solution must minimize development effort.

What should you use?

- A. the prebuilt Read model
- B. a custom template model
- C. a custom neural model
- D. the prebuilt receipt model

Suggested Answer: D

Community vote distribution

D (100%)

by  anto69 at July 7, 2024, 8:28 a.m.

 EXAM AI-102 TOPIC 4 QUESTION 24 DISCUSSION

HOTSPOT

You are building a language learning solution.

You need to recommend which Azure services can be used to perform the following tasks:

- Analyze lesson plans submitted by teachers and extract key fields, such as lesson times and required texts.
- Analyze learning content and provide students with pictures that represent commonly used words or phrases in the text.

The solution must minimize development effort.

Which Azure service should you recommend for each task? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Analyze lesson plans:

Azure Cognitive Search
Azure AI Custom Vision
Azure AI Document Intelligence
Immersive Reader

Analyze learning content:

Azure Cognitive Search
Azure AI Custom Vision
Azure AI Document Intelligence
Immersive Reader

Answer Area

Analyze lesson plans:

Azure Cognitive Search
Azure AI Custom Vision
Azure AI Document Intelligence
Immersive Reader

Suggested Answer:

Analyze learning content:

Azure Cognitive Search
Azure AI Custom Vision
Azure AI Document Intelligence
Immersive Reader

EXAM AI-102 TOPIC 4 QUESTION 25 DISCUSSION

HOTSPOT

- You have an Azure subscription.

You plan to build a solution that will analyze scanned documents and export relevant fields to a database.

You need to recommend which Azure AI service to deploy for the following types of documents:

- Internal expenditure request authorization forms
- Supplier invoices

The solution must minimize development effort.

What should you recommend for each document type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Internal expenditure request authorization forms:

An Azure AI Document Intelligence custom model
An Azure AI Document Intelligence pre-built model
Azure AI Custom Vision
Azure AI Immersive Reader
Azure AI Vision

Supplier invoices:

An Azure AI Document Intelligence custom model
An Azure AI Document Intelligence pre-built model
Azure AI Custom Vision
Azure AI Immersive Reader
Azure AI Vision

Answer Area

Internal expenditure request authorization forms:

An Azure AI Document Intelligence custom model
An Azure AI Document Intelligence pre-built model
Azure AI Custom Vision
Azure AI Immersive Reader
Azure AI Vision

Suggested Answer:

Supplier invoices:

An Azure AI Document Intelligence custom model
An Azure AI Document Intelligence pre-built model
Azure AI Custom Vision
Azure AI Immersive Reader
Azure AI Vision

EXAM AI-102 TOPIC 4 QUESTION 25 DISCUSSION

HOTSPOT -

You have an Azure subscription that contains an Azure AI Document Intelligence resource named DI1.

You create a PDF document named Test.pdf that contains tabular data.

You need to analyze Test.pdf by using DI1.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
curl -v -i POST "{endpoint}/formrecognizer/documentModels/" :analyze?api-version=2023-07-31" -H "Content-Type: application/json"  
-H : (yourkey)" --data-ascii "{'urlSource': 'test.pdf'}"  
  
Key1  
Ocp-Apim-Subscription-Key  
Secret  
Subscription-Key
```

A dropdown menu showing the following options:
prebuilt-contract
prebuilt-document
prebuilt-layout
prebuilt-read

Answer Area

```
curl -v -i POST "{endpoint}/formrecognizer/documentModels/" :analyze?api-version=2023-07-31" -H "Content-Type: application/json"  
-H : (yourkey)" --data-ascii "{'urlSource': 'test.pdf'}"
```

Suggested Answer:

```
-H Ocp-Apim-Subscription-Key : (yourkey)" --data-ascii "{'urlSource': 'test.pdf'}"
```

A dropdown menu showing the following options:
prebuilt-contract
prebuilt-document
prebuilt-layout
prebuilt-read

by  anto69 at July 7, 2024, 2:55 p.m.

 EXAM AI-102 TOPIC 4 QUESTION 26 DISCUSSION

You have an Azure AI Search resource named Search1.

You have an app named App1 that uses Search1 to index content.

You need to add a custom skill to App1 to ensure that the app can recognize and retrieve properties from invoices by using Search1.

What should you include in the solution?

- A. Azure AI Immersive Reader
- B. Azure OpenAI
- C. Azure AI Document Intelligence
- D. Azure AI Custom Vision

Suggested Answer: C

Community vote distribution

C (100%)

by  a8da4af at Oct. 22, 2024, 9:29 p.m.

 EXAM AI-102 TOPIC 4 QUESTION 27 DISCUSSION

HOTSPOT

- You have an Azure subscription.

You plan to build a solution that will analyze scanned documents and export relevant fields to a database.

You need to recommend an Azure AI Document Intelligence model for the following types of documents:

- Expenditure request authorization forms
- Structured and unstructured survey forms
- Structured employment application forms

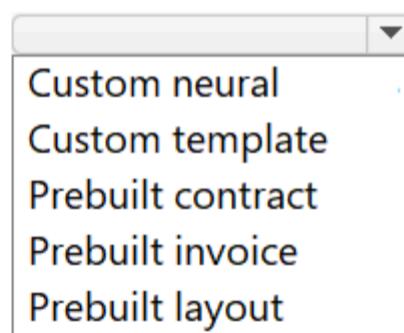
The solution must minimize development effort and costs.

Which type of model should you recommend for each document type? To answer, select the appropriate options in the answer area.

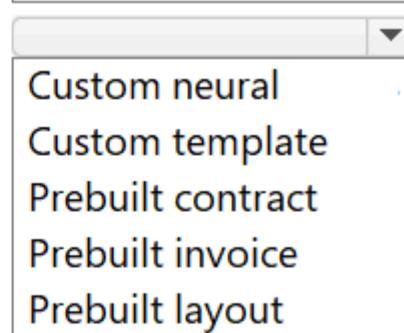
NOTE: Each correct selection is worth one point.

Answer Area

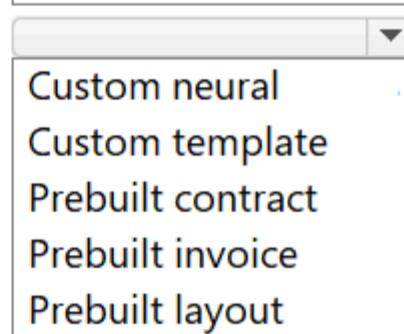
Expenditure request authorization forms:



Structured employment application forms:

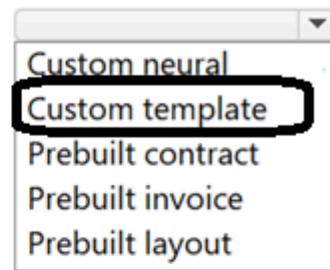


Structured and unstructured survey forms:



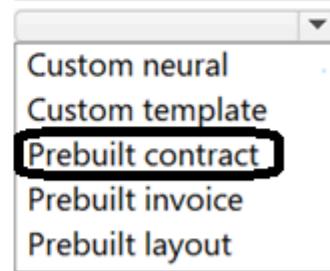
Answer Area

Expenditure request authorization forms:

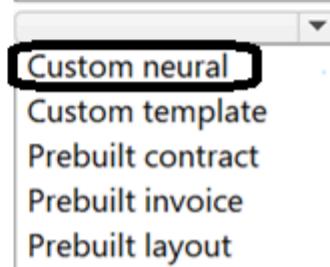


Structured employment application forms:

Suggested Answer:



Structured and unstructured survey forms:



by Christian_garcia_martin at Oct. 29, 2024, 6:02 a.m.

 EXAM AI-102 TOPIC 4 QUESTION 28 DISCUSSION

You have an Azure subscription that contains an Azure AI Document Intelligence resource named Aldoc1 in the S0 tier.

You have the files shown in the following table.

Name	Format	Password-locked	Size (MB)
File1	JPG	N/A	400
File2	PDF	No	250
File3	PNG	N/A	600
File4	XLSX	No	900
File5	PDF	Yes	160

You need to train a custom extraction model by using Aldoc1.

Which files can you upload to Document Intelligence Studio?

- A. File1, File2, and File4 only
- B. File2, and File5 only
- C. File2, File4, and File5 only
- D. File1, File2, File3, File4, and File5
- E. File1 and File2 only

Suggested Answer: E

Community vote distribution

E (100%)

by  a8da4af at Oct. 25, 2024, 9:27 p.m.

 EXAM AI-102 TOPIC 4 QUESTION 29 DISCUSSION

You have an Azure subscription that contains an Azure AI Document Intelligence resource named DI1. DI1 uses the Standard S0 pricing tier.

You have the files shown in the following table.

Name	Size	Description
File1.pdf	800 MB	Contains scanned images
File2.jpg	1 KB	An image that has 25 x 25 pixels
File3.tiff	5 MB	An image that has 5000 x 5000 pixels

Which files can you analyze by using DI1?

- A. File 1.pdf only
- B. File2.jpg only
- C. File3.tiff only
- D. File2.jpg and File3.tiff only
- E. File1.pdf, File2.jpg, and File3.tiff

Suggested Answer: C

Community vote distribution

C (53%) D (27%) B (20%)

by  cheetah313 at Oct. 19, 2024, 11:16 a.m.

EXAM AI-102 TOPIC 4 QUESTION 3 DISCUSSION

You have an existing Azure Cognitive Search service.

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

You need to make the scanned documents available to search as quickly as possible.

What should you do?

- A. Split the data into multiple blob containers. Create a Cognitive Search service for each container. Within each indexer definition, schedule the same runtime execution pattern.
- B. Split the data into multiple blob containers. Create an indexer for each container. Increase the search units. Within each indexer definition, schedule a sequential execution pattern.
- C. Create a Cognitive Search service for each type of document.
- D. Split the data into multiple virtual folders. Create an indexer for each folder. Increase the search units. Within each indexer definition, schedule the same runtime execution pattern.

Suggested Answer: D

Community vote distribution

D (100%)

by  [azurelearner666](#) at June 30, 2021, 8 p.m.

EXAM AI-102 TOPIC 4 QUESTION 30 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure AI Document Intelligence resource named DI1.

You build an app named App1 that analyzes PDF files for handwritten content by using DI1.

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

```
document_analysis_client = DocumentAnalysisClient(  
    endpoint=endpoint, credential=AzureKeyCredential(key)  
)  
  
with open(<filePath>, "rb") as f:  
    poller = document_analysis_client.begin_analyze_document(  
        document=f  
        "prebuilt-document",  
        "prebuilt-contract",  
        "prebuilt-read",  
    )  
  
    result = poller.result()  
  
    for style in result.styles:  
        if style.is_handwritten and style.confidence >  
            0.1  
            0.75  
            1.0  
  
            print("Document contains handwritten content: ")  
            print(",".join([result.content[span.offset:span.offset + span.length] for span in style.spans]))
```

Answer Area

```
document_analysis_client = DocumentAnalysisClient(  
    endpoint=endpoint, credential=AzureKeyCredential(key)  
)  
  
with open(<filePath>, "rb") as f:  
    poller = document_analysis_client.begin_analyze_document(  
        document=f  
        prebuilt_document_type=  
        ["prebuilt-document",  
         "prebuilt-contract",  
         "prebuilt-read",  
         ]  
    )  
  
    result = poller.result()  
  
    for style in result.styles:  
        if style.is_handwritten and style.confidence >  
            0.75:  
                print("Document contains handwritten content: ")  
                print(",".join([result.content[span.offset:span.offset + span.length] for span in style.spans]))
```

Suggested Answer:

by  cheetah313 at Oct. 19, 2024, 11:23 a.m.

EXAM AI-102 TOPIC 4 QUESTION 31 DISCUSSION

DRAG DROP

You have an Azure subscription that contains a storage account named sa1 and an Azure AI Document Intelligence resource named DI1.

You need to create and train a custom model in DI1 by using Document Intelligence Studio. The solution must minimize development effort.

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
Upload five sample documents.	
Upload 50 sample documents.	
Upload JSON files that contain the document layout and labels.	
Train and test the model.	
Create a custom model project and link the project to sa1.	
Apply labels to the sample documents.	

Answer Area
Upload five sample documents.
Create a custom model project and link the project to sa1.
Apply labels to the sample documents.
Train and test the model.

by  gadez1234 at Oct. 18, 2024, 11:27 p.m.

EXAM AI-102 TOPIC 4 QUESTION 32 DISCUSSION

DRAG DROP

You have an Azure subscription that contains an Azure AI Document Intelligence resource named DI1 and a storage account named sa1. The sa1 account contains a blob container named blob1 and an Azure Files share named share1.

You plan to build a custom model named Model1 in DI1.

You create sample forms and JSON files for Model1.

You need to train Model1 and retrieve the ID of 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.

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

Actions

Call the Get info REST API function.

Retrieve the access key for sa1.

Call the Build model REST API function.

Upload the forms and JSON files to share1.

Upload the forms and JSON files to blob1.

Create a shared access signature (SAS) URL for blob1.

Call the Get model REST API function.

Answer Area

Answer Area

Retrieve the access key for sa1.

Suggested Answer:

Upload the forms and JSON files to blob1.

Call the Build model REST API function.

Call the Get model REST API function.

by  Christian_garcia_martin at Oct. 29, 2024, 6:17 a.m.

 EXAM AI-102 TOPIC 4 QUESTION 33 DISCUSSION

You have an Azure subscription that contains an Azure AI Document Intelligence resource named Aldoc1.

You have an app named App1 that uses Aldoc1. App1 analyzes business cards by calling business card model v2.1.

You need to update App1 to ensure that the app can interpret QR codes. The solution must minimize administrative effort.

What should you do first?

- A. Upgrade the business card model to v3.0.
- B. Implement the read model.
- C. Deploy a custom model.
- D. Implement the contract model.

Suggested Answer: B

Community vote distribution

B (57%) A (43%)

by  cheetah313 at Oct. 19, 2024, 11:50 a.m.

 EXAM AI-102 TOPIC 4 QUESTION 4 DISCUSSION

You need to implement a table projection to generate a physical expression of an Azure Cognitive Search index.

Which three properties should you specify in the skillset definition JSON configuration table node? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. tableName
- B. generatedKeyName
- C. dataSource
- D. dataSourceConnection
- E. source

Suggested Answer: ABE

Community vote distribution

ABE (100%)

by  PHD_CHENG at May 9, 2022, 8:36 a.m.

EXAM AI-102 TOPIC 4 QUESTION 5 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

JSON data:

File projection
Object projection
Table projection

Scanned data:

File projection
Object projection
Table projection

Answer Area

JSON data:

File projection
Object projection
Table projection

Suggested Answer:

Scanned data:

File projection
Object projection
Table projection

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.

Reference:

<https://docs.microsoft.com/en-us/azure/search/knowledge-store-projection-overview>

by  azurelearner666 at June 30, 2021, 8:12 p.m.

EXAM AI-102 TOPIC 4 QUESTION 6 DISCUSSION

HOTSPOT -

You are building an Azure Cognitive Search custom skill.

You have the following custom skill schema definition.

```
{  
    "@odata.type": "#Microsoft.Skills.Custom.WebApiSkill",  
    "description": "My custom skill description",  
    "uri": "https://contoso-webskill.azurewebsites.net/api/process",  
    "context": "/document/organizations/*",  
    "inputs": [  
        {  
            "name": "companyName",  
            "source": "/document/organizations/*"  
        }  
    ],  
    "outputs": [  
        {  
            "name": "companyDescription",  
        }  
    ]  
}
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
CompanyDescription is available for indexing.	<input type="radio"/>	<input type="radio"/>
The definition calls a web API as part of the enrichment process.	<input type="radio"/>	<input type="radio"/>
The enrichment step is called only for the first organization under "/document/organizations".	<input type="radio"/>	<input type="radio"/>

Suggested Answer:

Answer Area

Statements	Yes	No
CompanyDescription is available for indexing.	<input checked="" type="radio"/>	<input type="radio"/>
The definition calls a web API as part of the enrichment process.	<input checked="" type="radio"/>	<input type="radio"/>
The enrichment step is called only for the first organization under "/document/organizations".	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes -

Once you have defined a skillset, you must map the output fields of any skill that directly contributes values to a given field in your search index.

Box 2: Yes -

The definition is a custom skill that calls a web API as part of the enrichment process.

Box 3: No -

For each organization identified by entity recognition, this skill calls a web API to find the description of that organization.

Reference:

<https://docs.microsoft.com/en-us/azure/search/cognitive-search-output-field-mapping>

by  nekkilodeon at Aug. 16, 2022, 3:11 p.m.

EXAM AI-102 TOPIC 4 QUESTION 7 DISCUSSION

You have the following data sources:

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

HR: Azure SQL database -

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

What should you do?

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

Suggested Answer: B

Community vote distribution

B (100%)

by  Eltooth at July 19, 2022, 11:13 a.m.

EXAM AI-102 TOPIC 4 QUESTION 8 DISCUSSION

You are developing a solution to generate a word cloud based on the reviews of a company's products.

Which Text Analytics REST API endpoint should you use?

- A. keyPhrases
- B. sentiment
- C. languages
- D. entities/recognition/general

Suggested Answer: A

Community vote distribution

A (95%) 5%

by  SuperPetey at Aug. 25, 2021, 8:21 a.m.

EXAM AI-102 TOPIC 4 QUESTION 9 DISCUSSION

DRAG DROP -

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.

Select and Place:

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



Suggested Answer:

Actions

Regenerate the secondary admin key.

Change the app to use the secondary admin key.

Regenerate the primary admin key.

Answer Area

Add a new query key.

Change the app to use the new key.

Delete the compromised key.

Reference:

<https://docs.microsoft.com/en-us/azure/search/search-security-api-keys>

by guruaws2021 at Aug. 27, 2021, 10:16 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 1 DISCUSSION

You build a bot by using the Microsoft Bot Framework SDK and the Azure Bot Service.

You plan to deploy the bot to Azure.

You register the bot by using the Bot Channels Registration service.

Which two values are required to complete the deployment? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. botId
- B. tenantId
- C. appId
- D. objectId
- E. appSecret

Suggested Answer: CE

Community vote distribution

CE (100%)

by  jayf at Sept. 8, 2021, 7:59 a.m.

EXAM AI-102 TOPIC 5 QUESTION 10 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

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

Answer Area

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

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.

Reference:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-v4-state>

EXAM AI-102 TOPIC 5 QUESTION 11 DISCUSSION

HOTSPOT -

You are building a chatbot that will provide information to users as shown in the following exhibit.

Passengers

Sarah Hum
Jeremy Goldberg
Evan Litvak

2 Stops

Tue, May 30, 2017 10:25 PM

San Francisco
Amsterdam



San Francisco
Amsterdam

SFO
AMS

SFO
AMS

Non-Stop

Fri, Jun 2, 2017 11:55 PM

San Francisco
Amsterdam



San Francisco
Amsterdam

SFO
AMS

SFO
AMS

Total

\$4,032.54

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.

Hot Area:

Answer Area

The chatbot is showing **[answer choice]**.

▼

an Adaptive Card
a Hero Card
a Thumbnail Card

The card includes **[answer choice]**.

▼

an action set
an image
an image group
media

Answer Area

The chatbot is showing [answer choice].

Suggested Answer:

The card includes [answer choice].

an Adaptive Card
a Hero Card
a Thumbnail Card

an action set
an image
an image group
media

Box 1: A Thumbnail card -

A Thumbnail card typically contains a single thumbnail image, some short text, and one or more buttons.

Incorrect Answers:

- ☞ an Adaptive card is highly customizable card that can contain any combination of text, speech, images, buttons, and input fields.
- ☞ a Hero card typically contains a single large image, one or more buttons, and a small amount of text.

Box 2: an image -

Reference:

<https://docs.microsoft.com/en-us/microsoftteams/platform/task-modules-and-cards/cards/cards-reference>

by  motu at June 9, 2021, 11:41 a.m.

EXAM AI-102 TOPIC 5 QUESTION 12 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

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

Suggested Answer:

Answer Area

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

Reference:

<https://github.com/solliancenet/tech-immersion-data-ai/blob/master/ai-exp1/README.md>

by  Diem at Sept. 18, 2021, 2:21 p.m.

EXAM AI-102 TOPIC 5 QUESTION 13 DISCUSSION

HOTSPOT -

You are designing a conversation flow to be used in a chatbot.

You need to test the conversation flow by using the Microsoft Bot Framework Emulator.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

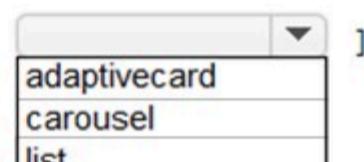
```
user=User1
bot=watchbot
user: I want a new watch.

bot: [Attachment
      ConversationUpdate
      Typing][Delay=3000]

bot: I can help you with that! Let me see what I can find.
bot: Here's what I found.
bot:

[AttachmentLayout=
  adaptivecard
  carousel
  thumbnail]

[Attachment=https://contoso.blob.core.windows.net/watch01.jpg]
[Attachment=https://contoso.blob.core.windows.net/watch02.jpg]
user: I like the first one.
bot: Sure, pulling up more information.
bot: [Attachment=cards\watchProfileCard.json
user: That's nice! Thank you.
bot: Sure, you are most welcome!
```



Answer Area

```
user=User1
bot=watchbot
user: I want a new watch.

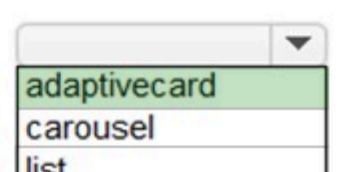
bot: [Attachment
      ConversationUpdate
      Typing][Delay=3000]
```

bot: I can help you with that! Let me see what I can find.
bot: Here's what I found.
bot:

Suggested Answer:

```
[AttachmentLayout=
  adaptivecard
  carousel
  thumbnail]

[Attachment=https://contoso.blob.core.windows.net/watch01.jpg]
[Attachment=https://contoso.blob.core.windows.net/watch02.jpg]
user: I like the first one.
bot: Sure, pulling up more information.
bot: [Attachment=cards\watchProfileCard.json
user: That's nice! Thank you.
bot: Sure, you are most welcome!
```



Reference:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-add-media-attachments?view=azure-bot-service-4.0&tabs=csharp>

by  SnowCheetah at Sept. 17, 2021, 10:29 a.m.

EXAM AI-102 TOPIC 5 QUESTION 14 DISCUSSION

You are building a chatbot by using the Microsoft Bot Framework Composer as shown in the exhibit. (Click the Exhibit tab.)

GetUserDetails > BeginDialog > Text Show code

Prompt for text
Text Input
Collection information - Ask for a word or sentence.
[Learn more](#)

Bot Asks **User input** **Other**

Property ② string
(SCOPE).name

Output format ② string

Value ② string

Expected responses (intent : #TextInput_Response_FuvyF4)

The chatbot contains a dialog named GetUserDetails. GetUserDetails contains a TextInput control that prompts users for their name.

The user input will be stored in a property named name.

You need to ensure that you can dispose of the property when the last active dialog ends.

Which scope should you assign to name?

- A. dialog
- B. user
- C. turn
- D. conversation

Suggested Answer: A

Community vote distribution

A (100%)

by Isidro at May 15, 2022, 8:36 a.m.

EXAM AI-102 TOPIC 5 QUESTION 15 DISCUSSION

DRAG DROP -

You have a chatbot that uses a QnA Maker application.

You enable active learning for the knowledge base used by the QnA Maker application.

You need to integrate user input into 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.

Select and Place:

Actions	Answer Area
Add a task to the Azure resource.	
Approve and reject suggestions.	
Publish the knowledge base.	
Modify the automation task logic app to run an Azure Resource Manager template that creates the Azure Cognitive Services resource.  	 
For the knowledge base, select Show active learning suggestions.	
Save and train the knowledge base.	
Select the properties of the Azure Cognitive Services resource.	

Actions	Answer Area
Add a task to the Azure resource.	For the knowledge base, select Show active learning suggestions.
	Approve and reject suggestions.
	Save and train the knowledge base.
Suggested Answer:	Modify the automation task logic app to run an Azure Resource Manager template that creates the Azure Cognitive Services resource.
	Publish the knowledge base.
Select the properties of the Azure Cognitive Services resource.	 
Step 1: For the knowledge base, select Show active learning suggestions.	In order to see the suggested questions, on the Edit knowledge base page, select View Options, then select Show active learning suggestions.
Step 2: Approve and reject suggestions.	Each QnA pair suggests the new question alternatives with a check mark, , to accept the question or an x to reject the suggestions. Select the check mark to
x"	add the question.
Step 3: Save and train the knowledge base.	Select Save and Train to save the changes to the knowledge base.
Step 4: Publish the knowledge base.	Select Publish to allow the changes to be available from the GenerateAnswer API.
When 5 or more similar queries are clustered, every 30 minutes, QnA Maker suggests the alternate questions for you to accept or reject.	Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/improve-knowledge-base	

by  Eltooth at July 20, 2022, 12:36 p.m.

 EXAM AI-102 TOPIC 5 QUESTION 16 DISCUSSION

You need to enable speech capabilities for a chatbot.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Enable WebSockets for the chatbot app.
- B. Create a Speech service.
- C. Register a Direct Line Speech channel.
- D. Register a Cortana channel.
- E. Enable CORS for the chatbot app.
- F. Create a Language Understanding service.

Suggested Answer: ABC

Community vote distribution

ABC (89%)	11%
-----------	-----

by  Eltooth at July 20, 2022, 12:47 p.m.

 EXAM AI-102 TOPIC 5 QUESTION 17 DISCUSSION

You use the Microsoft Bot Framework Composer to build a chatbot that enables users to purchase items.

You need to ensure that the users can cancel in-progress transactions. The solution must minimize development effort.

What should you add to the bot?

- A. a language generator
- B. a custom event
- C. a dialog trigger
- D. a conversation activity

Suggested Answer: C

Community vote distribution

C (95%)	5%
---------	----

by  Davard at Sept. 7, 2022, 4:36 a.m.

EXAM AI-102 TOPIC 5 QUESTION 19 DISCUSSION

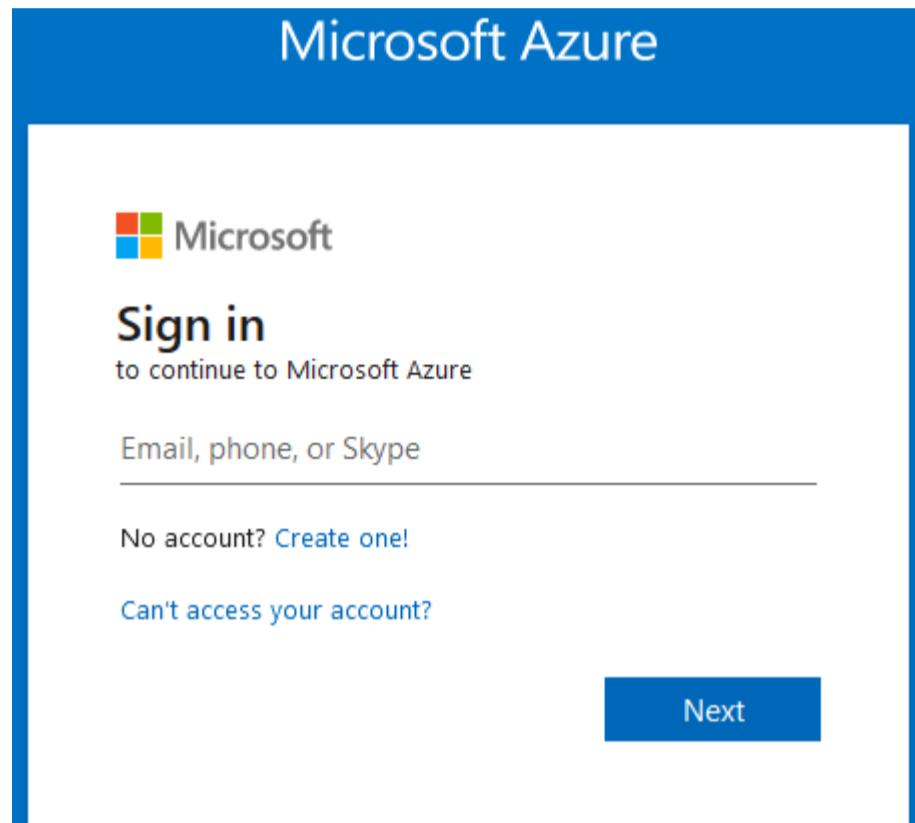
SIMULATION -

You need to create a QnA Maker service named QNA12345678 in the East US Azure region. QNA12345678 must contain a knowledge base that uses the questions and answers available at <https://support.microsoft.com/en-us/help/12435/windows-10-upgrade-faq>.

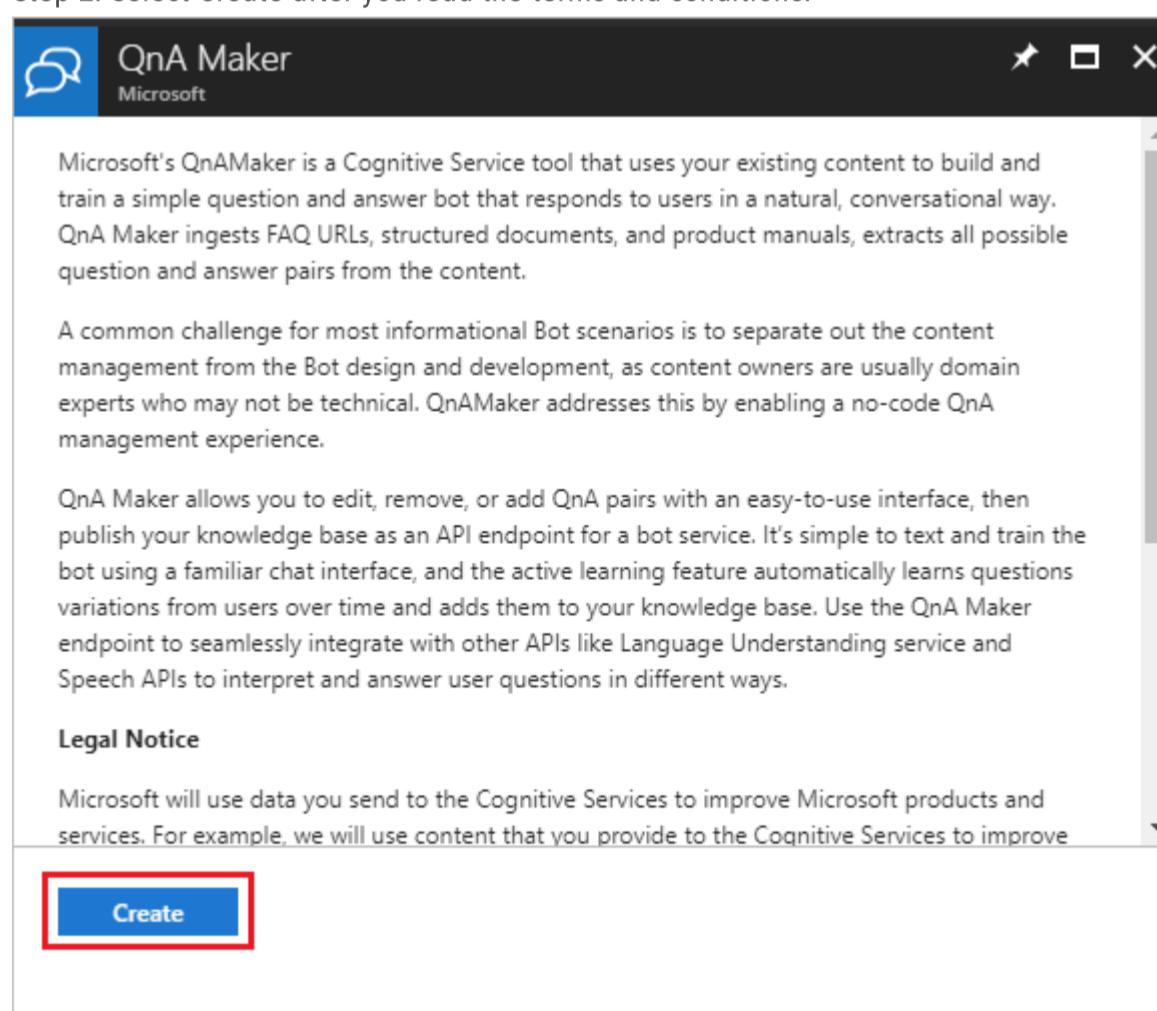
To complete this task, sign in to the Azure portal and the QnA Maker portal.

Suggested Answer: See explanation below.

Step 1: Sign in to the Azure portal create and a QnA Maker resource.



Step 2: Select Create after you read the terms and conditions:



Step 3: In QnA Maker, select the appropriate tiers and regions.

Name: QNA12345678 -

In the Name field, enter a unique name to identify this QnA Maker service. This name also identifies the QnA Maker endpoint that your knowledge bases will be associated with.

Resource Group Location: East US Azure

Create

QnA Maker

* Name: myqnamakerservice

* Subscription: team

* Pricing tier (View full pricing details): F0 (3 managed documents per month, 3 tr...)

* Resource group: (New) myqnamakerservice

Create new

* Resource group location: (US) Central US

* Search pricing tier (View full pricing details): B (15 Indexes)

* Search location: West US

* App name: myqnamakerservice

.azurewebsites.net

Info: The App service plan currently defaults to standard(S1) tier. It can be modified by visiting the app service plan resource page once the resource has been created.

* Website location: West US

App insights: Enable

Step 4: After all the fields are validated, select Create. The process can take a few minutes to complete.

After deployment is completed, you'll see the following resources created in your subscription:

Home > Resource groups > myqnamakerservice

myqnamakerservice Resource group

Subscription (change) My account			Subscription ID <subscription id>	Deployments 2 Succeeded
Overview	Tags (change) Click here to add tags			
Activity log				
Access control (IAM)				
Tags				
SETTINGS				
Quickstart				
Resource costs				
Deployments				
Policies				
Properties				
Locks				

Filter by name... All types All locations No grouping

6 items Show hidden types

NAME	TYPE	LOCATION
Default1	App Service plan	East US
Failure Anomalies - myqnamakerservice-ai	microsoft.insights/alertrules	East US
myqnamakerservice	Search service	West US
myqnamakerservice	Cognitive Services	West US
myqnamakerservice	App Service	East US
qnamakerpp-ai	Application Insights	East US

Remember your Azure Active Directory ID, Subscription, QnA resource name you selected when you created the resource.

Step 5: When you are done creating the resource in the Azure portal, return to the QnA Maker portal, refresh the browser page.

Step 6: In the QnA Maker portal, select Create a knowledge base.

Step 7: Skip Step 1 as you already have your QnA Maker resource.

Step 8: In Step 2, select your Active directory, subscription, service (resource), and the language for all knowledge bases created in the service.

Azure QnA service: QNA12345678 -

STEP 2**Connect your QnA service to your KB.**

After you create an Azure QnA service, refresh this page and then select your Azure service using the options below

Refresh

* Microsoft Azure Directory ID

Microsoft

* Azure subscription name

documentationteam

* Azure QnA service

qna-maker-10

* Language

English

Step 9: In Step 3, name your knowledge base

Step 10: In Step 4, configure the following setting:

+ Add URL: <https://support.microsoft.com/en-us/help/12435/windows-10-upgrade-faq>

Step 11: In Step 5, Select Create your KB.

The extraction process takes a few moments to read the document and identify questions and answers.

After QnA Maker successfully creates the knowledge base, the Knowledge base page opens.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/set-up-qnamaker-service-azure> <https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/quickstarts/create-publish-knowledge-base>

by  rdemontis at Nov. 7, 2023, 7:41 p.m.

EXAM AI-102 TOPIC 5 QUESTION 2 DISCUSSION

HOTSPOT -

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

You have the dialog design shown in the following exhibit.

The screenshot shows a Microsoft Bot Framework Composer dialog. On the left, the dialog flow starts with a 'BeginDialog' event, followed by a 'Bot Asks (Text)' action ('What is your name?'), a 'User Input (Text)' action ('username = Input(Text)'), another 'Bot Asks (Text)' action ('Hello \${user.name}, how old are you?'), and a final 'User Input (Text)' action ('user.age = Input(Number)'). On the right, a 'Prompt for text' card is displayed, detailing the configuration for the first 'Text input' node. It shows 'Bot Asks' selected, 'Property' set to 'string', 'user.name' assigned, 'Output Format' set to 'string', 'Value' as an expression 'fx = coalesce(@user.Name,@personName)', and the expected response 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.

Hot Area:

Answer Area

Statements	Yes	No
------------	-----	----

user.name is an entity.

The dialog asks for a user name and a user age and assigns appropriate values to the user.name and user.age properties.

The chatbot attempts to take the first non-null entity value for userName or personName and assigns the value to user.name.

Suggested Answer:

Answer Area

Statements

Yes No

`user.name` is an entity.

The dialog asks for a user name and a user age and assigns appropriate values to the `user.name` and `user.age` properties.

The chatbot attempts to take the first non-null entity value for `userName` or `personName` and assigns the value to `user.name`.

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.

Reference:

<https://docs.microsoft.com/en-us/composer/concept-language-generation> <https://docs.microsoft.com/en-us/azure/data-explorer/kusto/query/coalescefuction>

by  Duch003 at July 1, 2021, 9:30 p.m.

EXAM AI-102 TOPIC 5 QUESTION 20 DISCUSSION

SIMULATION -

You need to add a question pair to the published knowledge base used by a QnA Maker service named QNA12345678. The question must be: 'What will be the next version of Windows?'

The answer must be: 'Windows 11'.

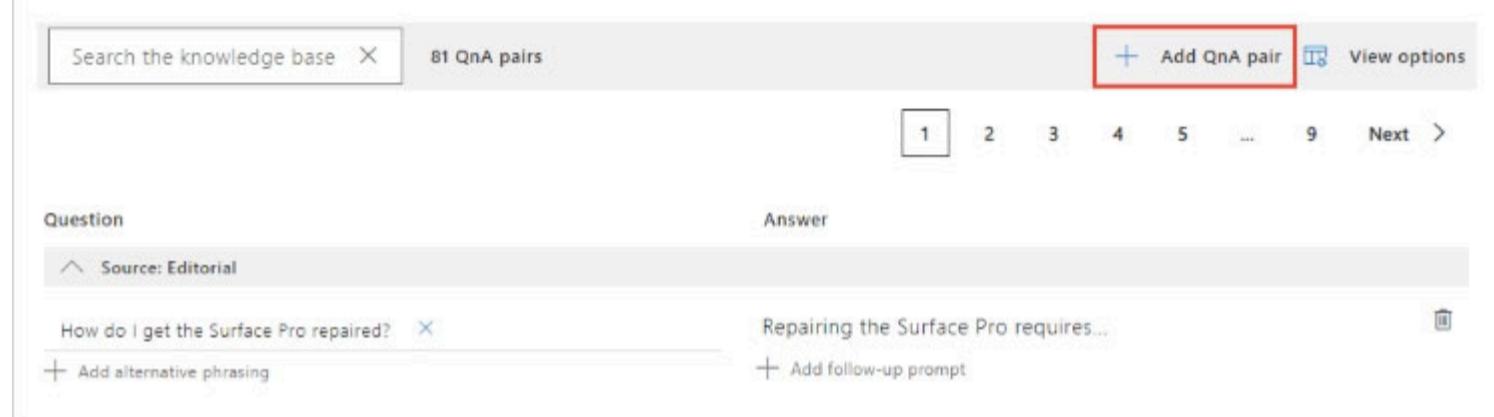
To complete this task, sign in to the QnA Maker portal.

Suggested Answer: *Answer: Windows 11*

Step 1: Sign in to the QnA portal, then select the knowledge base to add the QnA pair to.

Step 2: On the EDIT page of the knowledge base, select Add QnA pair to add a new QnA pair.

Knowledge base



The screenshot shows a table of QnA pairs. The first row has a question 'How do I get the Surface Pro repaired?' and an answer 'Repairing the Surface Pro requires...'. There are buttons for 'Source: Editorial', 'Add alternative phrasing', and 'Add follow-up prompt'. The second column contains numbers 1 through 9 and a 'Next >' button. The third column contains a 'View options' button. A red box highlights the 'Add QnA pair' button at the top right of the table.

Question	Answer	
How do I get the Surface Pro repaired? X Source: Editorial + Add alternative phrasing	Repairing the Surface Pro requires... X + Add follow-up prompt	View options

Step 3: In the new QnA pair row, add the required question and answer fields. The other fields are optional. All fields can be changed at any time.

Question: What will be the next version of Windows?

Step 4: Select Save and train to see predictions including the new QnA pair.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/edit-knowledge-base>

by  rdemontis at Nov. 7, 2023, 7:43 p.m.

EXAM AI-102 TOPIC 5 QUESTION 21 DISCUSSION

SIMULATION -

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

Azure Username: admin@abc.com -

Azure Password: XXXXXXXXXXXX -

The following information is for technical support purposes only:

Lab Instance: 12345678 -

Task -

You have a bot that was developed by using the Microsoft Bot Framework SDK. The bot is available at an endpoint of <https://bot.contoso.com/api/messages>.

You need to create an Azure Bot named bot12345678 that connects to the bot.

To complete this task, sign in to the Azure portal.

Suggested Answer: See explanation below.

Create the resource -

Create the Azure Bot resource, which will allow you to register your bot with the Azure Bot Service.

1. Go to the Azure portal.
2. In the right pane, select Create a resource.
3. In the search box enter bot, then press Enter.
4. Select the Azure Bot card.



Azure Bot

Microsoft

Azure Service

Build enterprise-grade conversational
AI experiences with Bot Framework
Composer or SDK.

Create ▾



5. Select Create.
6. Enter values in the required fields. Choose which type of app to create and whether to use existing or create new identity information.

Pricing

Select a pricing tier for your Azure Bot resource. You can change your selection later in the Azure portal's resource management. Learn more about available options, or request a pricing quote, by visiting the [Azure Bot Services pricing](#)

Pricing tier *

Standard
[Change plan](#)

Microsoft App ID

A Microsoft App ID is required to create an Azure Bot resource. If your bot app doesn't need to access resources outside of its home tenant and if your bot app will be hosted on an Azure resource that supports Managed Identities, then choose option User-Assigned Managed Identity so that Azure takes care of managing the App credentials for you. Otherwise, depending on whether your bot will be accessing resources only in its home tenant or not, choose either Single tenant or Multi tenant option respectively.

Type of App

User-Assigned Managed Identity

i Note: For User-Assigned Managed Identity and Single Tenant app, Azure Portal's "Open in Composer" link is not yet supported for bots with these app types. BotFramework SDK (C# or Javascript) version 4.15.0 or higher is needed for these app types.

A User-assigned managed identity can be automatically created below or you can manually create your own, then return to input your new App ID, tenant ID and MSI resource ID in the open fields.

[Manually create a User Managed Identity](#)

Creation type

- Create new Microsoft App ID
 Use existing app registration

7. Select Review + create.

8. If the validation passes, select Create.

9. Once the deployment completes, select Go to resource. You should see the bot and related resources listed in the resource group you selected.

10. Enter the endpoint of the Bot Framework SDK: <https://bot.contoso.com/api/messages>

Reference:

<https://docs.microsoft.com/en-us/azure/bot-service/abs-quickstart?view=azure-bot-service-4.0&tabs=userassigned>

by  AzureGeek79 at Sept. 15, 2024, 3:59 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 22 DISCUSSION

You are designing a conversational interface for an app that will be used to make vacation requests. The interface must gather the following data:

- The start date of a vacation
- The end date of a vacation
- The amount of required paid time off

The solution must minimize dialog complexity.

Which type of dialog should you use?

- A. adaptive
- B. skill
- C. waterfall
- D. component

Suggested Answer: C

Community vote distribution

C (97%) 3%

by  [marti_tremblay000](#) at March 17, 2023, 12:34 p.m.

EXAM AI-102 TOPIC 5 QUESTION 23 DISCUSSION

DRAG DROP

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

Answer Area	Suggested Answer:
1 Build and run the bot.	
2 Open the Bot Framework Emulator.	
3 Connect to the bot endpoint.	

by  kail85 at June 4, 2023, 1:26 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 24 DISCUSSION

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

Suggested Answer: *B*

Community vote distribution

B (100%)

by  [marti_tremblay000](#) at March 16, 2023, 11:40 a.m.

EXAM AI-102 TOPIC 5 QUESTION 25 DISCUSSION

HOTSPOT

You build a bot named app1 by using the Microsoft Bot Framework.

You prepare app1 for deployment.

You need to deploy app1 to Azure.

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

NOTE: Each correct selection is worth one point.

Answer Area

az	deployment source	--resource-group "RG1" --name "app1" --src "app1.zip"
<input type="checkbox"/> bot	<input type="checkbox"/> config	
<input type="checkbox"/> functionapp	<input type="checkbox"/> config-local-git	
<input type="checkbox"/> vm	<input type="checkbox"/> config-zip	
<input type="checkbox"/> webapp		

Answer Area

Suggested Answer:

az	deployment source	--resource-group "RG1" --name "app1" --src "app1.zip"
<input checked="" type="checkbox"/> bot	<input type="checkbox"/> config	
<input checked="" type="checkbox"/> functionapp	<input type="checkbox"/> config-local-git	
<input checked="" type="checkbox"/> vm	<input type="checkbox"/> config-zip	
<input checked="" type="checkbox"/> webapp		

by  Sachz88 at April 12, 2023, 6:32 a.m.

EXAM AI-102 TOPIC 5 QUESTION 26 DISCUSSION

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_friendly.tsv, and then retrain and republish the model.

Does this meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (82%)	A (18%)
---------	---------

by  [marti_tremblay000](#) at March 17, 2023, 12:38 p.m.

EXAM AI-102 TOPIC 5 QUESTION 27 DISCUSSION

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 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

Suggested Answer: B

Community vote distribution

B (83%)	A (17%)
---------	---------

by  [marti_tremblay000](#) at March 17, 2023, 12:42 p.m.

EXAM AI-102 TOPIC 5 QUESTION 28 DISCUSSION

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

Suggested Answer: A

Community vote distribution

A (100%)

by  [marti_tremblay000](#) at March 17, 2023, 12:43 p.m.

EXAM AI-102 TOPIC 5 QUESTION 29 DISCUSSION

You create five bots by using Microsoft Bot Framework Composer.

You need to make a single bot available to users that combines the bots. The solution must support dynamic routing to the bots based on user input.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create a composer extension.
- B. Change the Recognizer/Dispatch type.
- C. Create an Orchestrator model.
- D. Enable WebSockets.
- E. Create a custom recognizer JSON file.
- F. Install the Orchestrator package.

Suggested Answer: BCF

Community vote distribution

BCF (93%) 7%

by  [marti_tremblay000](#) at March 16, 2023, 12:10 p.m.

 EXAM AI-102 TOPIC 5 QUESTION 3 DISCUSSION

You are building a multilingual chatbot.

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

Which two Language service APIs should you use? Each correct answer presents part of the solution.

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

Suggested Answer: *BD*

Community vote distribution

BD (100%)

by  slcheng at Dec. 18, 2022, 8:42 a.m.

EXAM AI-102 TOPIC 5 QUESTION 30 DISCUSSION

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 are building a chatbot that will use question answering in Azure Cognitive Service for Language.

You have a PDF named Doc1.pdf that contains a product catalogue and a price list.

You upload Doc1.pdf and train the model.

During testing, users report that the chatbot responds correctly to the following question: What is the price of ?

The chatbot fails to respond to the following question: How much does cost?

You need to ensure that the chatbot responds correctly to both questions.

Solution: From Language Studio, you add alternative phrasing to the question and answer pair, and then retrain and republish the model.

Does this meet the goal?

- A. Yes
- B. No

Suggested Answer: A

Community vote distribution

A (100%)

by  973b658 at June 11, 2023, 7:17 a.m.

EXAM AI-102 TOPIC 5 QUESTION 31 DISCUSSION

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 are building a chatbot that will use question answering in Azure Cognitive Service for Language.

You have a PDF named Doc1.pdf that contains a product catalogue and a price list.

You upload Doc1.pdf and train the model.

During testing, users report that the chatbot responds correctly to the following question: What is the price of ?

The chatbot fails to respond to the following question: How much does cost?

You need to ensure that the chatbot responds correctly to both questions.

Solution: From Language Studio, you enable chit-chat, and then retrain and republish the model.

Does this meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  acsoma at Aug. 2, 2023, 9:11 a.m.

EXAM AI-102 TOPIC 5 QUESTION 32 DISCUSSION

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 are building a chatbot that will use question answering in Azure Cognitive Service for Language.

You have a PDF named Doc1.pdf that contains a product catalogue and a price list.

You upload Doc1.pdf and train the model.

During testing, users report that the chatbot responds correctly to the following question: What is the price of ?

The chatbot fails to respond to the following question: How much does cost?

You need to ensure that the chatbot responds correctly to both questions.

Solution: From Language Studio, you create an entity for price, and then retrain and republish the model.

Does this meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  kail85 at June 4, 2023, 1:35 a.m.

EXAM AI-102 TOPIC 5 QUESTION 33 DISCUSSION

You have a Conversational Language Understanding model.

You export the model as a JSON file. The following is a sample of the file.

```
{  
  "text": "average amount of rain by month in 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": []  
    }  
  ]  
}
```

What represents the Weather.Historic entity in the sample utterance?

- A. last year
- B. by month
- C. amount of
- D. average

Suggested Answer: B

Community vote distribution

B (100%)

by  973b658 at June 11, 2023, 7:24 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 34 DISCUSSION

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

Suggested Answer: DE

Community vote distribution

DE (100%)

by  kail85 at June 4, 2023, 1:43 a.m.

EXAM AI-102 TOPIC 5 QUESTION 35 DISCUSSION

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. action
- C. waterfall
- D. adaptive

Suggested Answer: C

Community vote distribution

C (86%) 14%

by  973b658 at June 11, 2023, 7:30 a.m.

EXAM AI-102 TOPIC 5 QUESTION 36 DISCUSSION

You have a chatbot that was built by using Microsoft Bot Framework and deployed to Azure.

You need to configure the bot to support voice interactions. The solution must support multiple client apps.

Which type of channel should you use?

- A. Cortana
- B. Microsoft Teams
- C. Direct Line Speech

Suggested Answer: C

Community vote distribution

C (100%)

by  Codia at April 24, 2023, 1:37 p.m.

 EXAM AI-102 TOPIC 5 QUESTION 37 DISCUSSION

You are building a bot by using Microsoft Bot Framework.

You need to configure the bot to respond to spoken requests. The solution must minimize development effort.

What should you do?

- A. Deploy the bot to Azure and register the bot with a Direct Line Speech channel.
- B. Integrate the bot with Cortana by using the Bot Framework SDK.
- C. Create an Azure function that will call the Speech service and connect the bot to the function.
- D. Deploy the bot to Azure and register the bot with a Microsoft Teams channel.

Suggested Answer: A

Community vote distribution

A (86%)	14%
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by  Codia at April 24, 2023, 1:57 p.m.

EXAM AI-102 TOPIC 5 QUESTION 38 DISCUSSION

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

Suggested Answer: B

Community vote distribution

B (100%)

by  acsoma at Aug. 2, 2023, 9:11 a.m.

EXAM AI-102 TOPIC 5 QUESTION 39 DISCUSSION

HOTSPOT

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

pii

Terms

Category:

1

2

3

Answer Area

Suggested Answer:

Section:

Classification

pii

Terms

Category:

1

2

3

by  tzuyichao at April 14, 2023, 2:50 a.m.

EXAM AI-102 TOPIC 5 QUESTION 4 DISCUSSION

DRAG DROP -

You plan to build a chatbot to support task tracking.

You create a Language Understanding service named lu1.

You need to build a 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.

Select and Place:

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

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

Step 1: Add a new application -

Create a new app -

1. Sign in to the LUIS portal with the URL of <https://www.luis.ai>.
2. Select Create new app.
3. Etc.

Step 2: Add example utterances.

In order to classify an utterance, the intent needs examples of user utterances that should be classified with this intent.

Step 3: Train the application -

Step 4: Publish the application -

In order to receive a LUIS prediction in a chat bot or other client application, you need to publish the app to the prediction endpoint.

Reference:

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

 EXAM AI-102 TOPIC 5 QUESTION 40 DISCUSSION

You are building a chatbot for a travel agent. The bot will ask users for a destination and must repeat the question until a valid input is received, or the user closes the conversation.

Which type of dialog should you use?

- A. prompt
- B. input
- C. adaptive
- D. QnA Maker

Suggested Answer: A

Community vote distribution

A (100%)

by  973b658 at June 11, 2023, 7:59 a.m.

EXAM AI-102 TOPIC 5 QUESTION 41 DISCUSSION

You are building a chatbot.

You need to configure the chatbot to query a knowledge base.

Which dialog class should you use?

- A. QnAMakerDialog
- B. AdaptiveDialog
- C. SkillDialog
- D. ComponentDialog

Suggested Answer: A

Community vote distribution

A (100%)

by  973b658 at June 11, 2023, 8:01 a.m.

EXAM AI-102 TOPIC 5 QUESTION 42 DISCUSSION

HOTSPOT

You have a chatbot.

You need to ensure that the bot conversation resets if a user fails to respond for 10 minutes.

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

```
...
if now_seconds != last_access and (now_seconds - last_access >= self.expire_after_seconds ):
    await turn_context.
        send_activity()
        send_trace_activity()
        update_activity()

    "Welcome back! Let's start over from the beginning."
)

await self.conversation_state.
    Delete_property_value()
    Save_changes()
    Set_property_value()
```

Answer Area

```
...
if now_seconds != last_access and (now_seconds - last_access >= self.expire_after_seconds ):
    await turn_context.
        send_activity()
        send_trace_activity()
        update_activity()
```

Suggested Answer:

```
"Welcome back! Let's start over from the beginning."
)

await self.conversation_state.
    Delete_property_value()
    Save_changes()
    Set_property_value()
```

by  973b658 at June 14, 2023, 9:51 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 43 DISCUSSION

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 entities.
- C. Add examples to the None intent.
- D. Add examples to the custom intents.

Suggested Answer: C

Community vote distribution

C (100%)

by  973b658 at June 14, 2023, 9:52 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 44 DISCUSSION

You have a Speech resource and a bot that was built by using the Microsoft Bot Framework Composer.

You need to add support for speech-based channels to the bot.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure the language and voice settings for the Speech resource.
- B. Add the endpoint and key of the Speech resource to the bot.
- C. Add language understanding to dialogs.
- D. Add Orchestrator to the bot.
- E. Add Speech to the bot responses.
- F. Remove the setSpeak configuration.

Suggested Answer: ABE

Community vote distribution

ABE (94%)	6%
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by  973b658 at June 14, 2023, 9:58 a.m.

EXAM AI-102 TOPIC 5 QUESTION 45 DISCUSSION

DRAG DROP

You are building a bot.

You need to test the bot in the Bot Framework Emulator. The solution must ensure that you can debug the bot interactively.

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
Run the bot app on a local host.	
Use the input prompt object to send a trace activity.	
Deploy the bot to Azure.	
In the code for the bot, create a new trace activity.	
In the code for the bot, send a trace activity.	



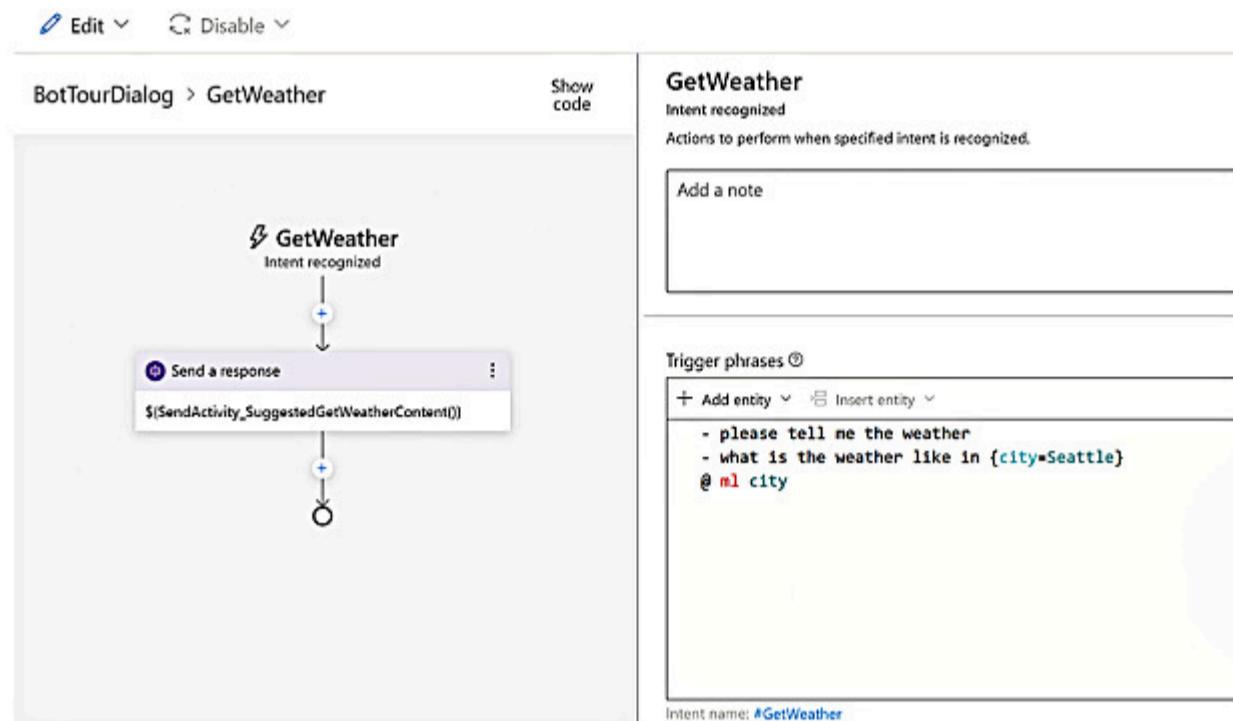
Answer Area
Suggested Answer:
In the code for the bot, create a new trace activity.
In the code for the bot, send a trace activity.
Run the bot app on a local host.

by  973b658 at June 14, 2023, 10:05 a.m.

EXAM AI-102 TOPIC 5 QUESTION 46 DISCUSSION

HOTSPOT

You have a bot that was built by using the Microsoft Bot Framework composer as shown in the following exhibit.



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.

Answer Area

If a user asks "what is the weather like in New York", the bot will [answer choice].

The GetWeather dialog uses a [answer choice] trigger.

Answer choices:

- change to a different dialog
- identify New York as a city entity
- identify New York as a state entity
- respond with the weather in Seattle

Trigger choices:

- Custom events
- Dialog events
- Language Understanding Intent recognized
- QnA Intent recognized

Answer Area

If a user asks "what is the weather like in New York", the bot will [answer choice].

The GetWeather dialog uses a [answer choice] trigger.

Answer choices:

- change to a different dialog
- identify New York as a city entity
- identify New York as a state entity
- respond with the weather in Seattle

Trigger choices:

- Custom events
- Dialog events
- Language Understanding Intent recognized
- QnA Intent recognized

by 973b658 at June 14, 2023, 10:13 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 47 DISCUSSION

You are building a flight booking bot by using the Microsoft Bot Framework SDK.

The bot will ask users for the departure date. The bot must repeat the question until a valid date is given, or the users cancel the transaction.

Which type of dialog should you use?

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

Suggested Answer: A

Community vote distribution

A (92%)	8%
---------	----

by  973b658 at June 14, 2023, 10:13 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 48 DISCUSSION

HOTSPOT

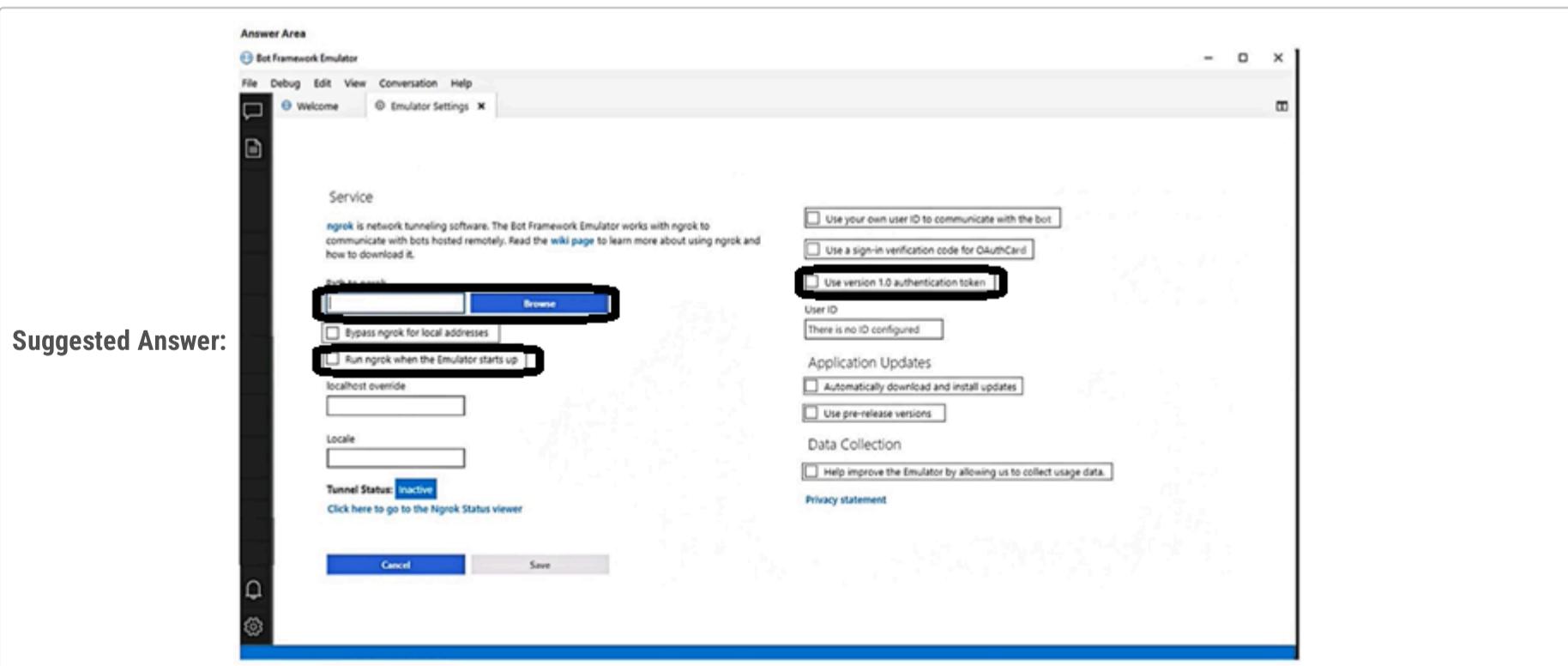
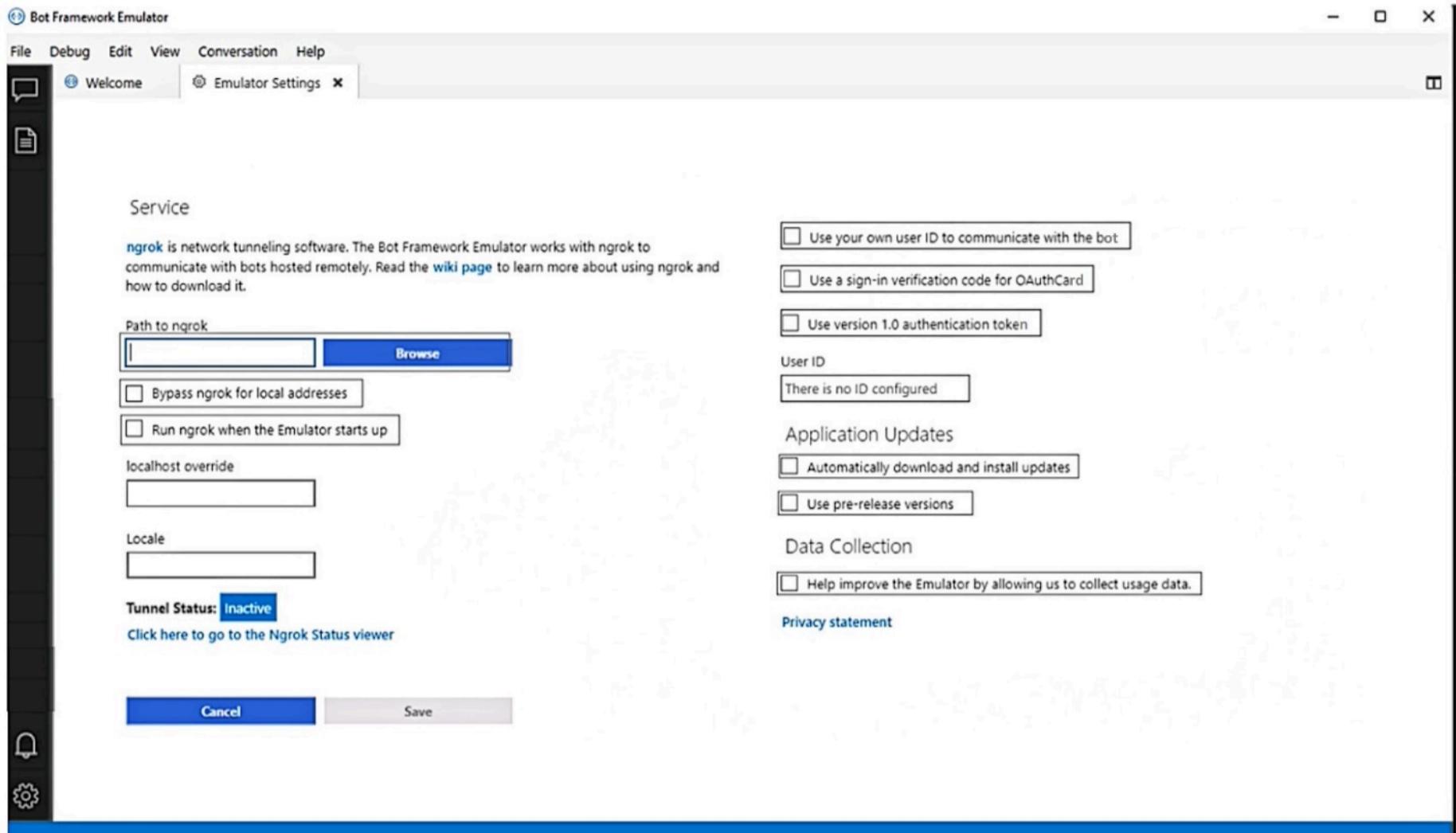
You have a chatbot.

You need to test the bot by using the Bot Framework Emulator. The solution must ensure that you are prompted for credentials when you sign in to the bot.

Which three settings should you configure? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



EXAM AI-102 TOPIC 5 QUESTION 5 DISCUSSION

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.

Suggested Answer: *B*

Community vote distribution

B (100%)

by  [azurelearner666](#) at June 30, 2021, 10:32 p.m.

 EXAM AI-102 TOPIC 5 QUESTION 50 DISCUSSION

You build a bot.

You create an Azure Bot resource.

You need to deploy the bot to Azure.

What else should you create?

- A. only an app registration in Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra, an Azure App Service instance, and an App Service plan
- B. only an app registration in Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra, an Azure Kubernetes Service (AKS) instance, and a container image
- C. only an Azure App Service instance, and an App Service plan
- D. only an Azure Machine Learning workspace and an app registration in Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra

Suggested Answer: A

Community vote distribution

A (63%)

C (37%)

by  mh_63 at Nov. 1, 2023, 10:55 a.m.

 EXAM AI-102 TOPIC 5 QUESTION 51 DISCUSSION

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

Suggested Answer: CD

Community vote distribution

CD (100%)

by  _LAW_ at Nov. 2, 2023, 12:03 a.m.

EXAM AI-102 TOPIC 5 QUESTION 52 DISCUSSION

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 are building a chatbot that will use question answering in Azure Cognitive Service for Language.

You have a PDF named Doc1.pdf that contains a product catalogue and a price list.

You upload Doc1.pdf and train the model.

During testing, users report that the chatbot responds correctly to the following question: What is the price of ?

The chatbot fails to respond to the following question: How much does cost?

You need to ensure that the chatbot responds correctly to both questions.

Solution: From Language Studio, you create an entity for cost, and then retrain and republish the model.

Does this meet the goal?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  Murtuza at March 9, 2024, 8:02 p.m.

EXAM AI-102 TOPIC 5 QUESTION 52 DISCUSSION

HOTSPOT -

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.

```
self.user_profile_accessor = self.user_state.create_property("UserProfile")
self.conversation_data_accessor = self.conversation_state.create_property("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.

Answer Area

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

Answer Area

Statements

Yes

No

The code will create and maintain the UserProfile object in the underlying storage layer.



Suggested Answer:

The code will create and maintain the ConversationData object in the underlying storage layer.



The UserProfile and ConversationData objects will persist when the Bot Framework runtime terminates.



by  rdemontis at Nov. 9, 2023, 9:31 p.m.

EXAM AI-102 TOPIC 5 QUESTION 6 DISCUSSION

DRAG DROP -

You are using a Language Understanding service to handle natural language input from the users of a web-based customer agent.

The users report that the agent frequently responds with the following generic response: "Sorry, I don't understand that."

You need to improve the ability of the agent to respond to requests.

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.

Select and Place:

Actions

Answer Area

- Add prebuilt domain models as required.
- Validate the utterances logged for review and modify the model.
- Migrate authoring to an Azure resource authoring key.
- Enable active learning.
- Enable log collection by using Log Analytics.
- Train and republish the Language Understanding model.

Suggested Answer:

Actions

Answer Area

- Add prebuilt domain models as required.
- Validate the utterances logged for review and modify the model.
- Migrate authoring to an Azure resource authoring key.
- Enable active learning.
- Enable log collection by using Log Analytics.
- Train and republish the Language Understanding model.

- Add prebuilt domain models as required.
- Enable active learning.
- Train and republish the Language Understanding model.

Step 1: Add prebuilt domain models as required.

Prebuilt models provide domains, intents, utterances, and entities. You can start your app with a prebuilt model or add a relevant model to your app later.

Note: Language Understanding (LUIS) provides prebuilt domains, which are pre-trained models of intents and entities that work together for domains or common categories of client applications.

The prebuilt domains are trained and ready to add to your LUIS app. The intents and entities of a prebuilt domain are fully customizable once you've added them to your app.

Step 2: Enable active learning -

To enable active learning, you must log user queries. This is accomplished by calling the endpoint query with the `log=true` querystring parameter and value.

Step 3: Train and republish the Language Understanding model

The process of reviewing endpoint utterances for correct predictions is called Active learning. Active learning captures endpoint queries and selects user's endpoint utterances that it is unsure of. You review these utterances to select the intent and mark entities for these real-world utterances. Accept these changes into your example utterances then train and publish. LUIS then identifies utterances more accurately.

Incorrect Answers:

Enable log collection by using Log Analytics

Application authors can choose to enable logging on the utterances that are sent to a published application. This is not done through Log Analytics.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-how-to-review-endpoint-utterances#log-user-queries-to-enable-active-learning> <https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-prebuilt-model>

by  g2000 at May 20, 2022, 10:22 p.m.

 EXAM AI-102 TOPIC 5 QUESTION 7 DISCUSSION

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

Suggested Answer: C

Community vote distribution

C (100%)

by  TheB at July 4, 2021, 3:52 p.m.

EXAM AI-102 TOPIC 5 QUESTION 8 DISCUSSION

HOTSPOT -

You are building a chatbot for a Microsoft Teams channel by using the Microsoft Bot Framework SDK. The chatbot will use the following code.

```
protected override async Task OnMembersAddedAsync(IList<ChannelAccount>
membersAdded, ITurnContext<IConversationUpdateActivity> turnContext,
CancellationToken cancellationToken)
{
    foreach (var member in membersAdded)
        if (member.Id != turnContext.Activity.Recipient.Id)
            await turnContext.SendActivityAsync($"Hi there - {member.Name}.
{WelcomeMessage}", cancellationToken: cancellationToken);
}
```

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
OnMembersAddedAsync will be triggered when a user joins the conversation.	<input type="radio"/>	<input type="radio"/>
When a new user joins the conversation, the existing users in the conversation will see the chatbot greeting.	<input type="radio"/>	<input type="radio"/>
OnMembersAddedAsync will be initialized when a user sends a message.	<input type="radio"/>	<input type="radio"/>

Suggested Answer:

Answer Area

Statements	Yes	No
OnMembersAddedAsync will be triggered when a user joins the conversation.	<input checked="" type="radio"/>	<input type="radio"/>
When a new user joins the conversation, the existing users in the conversation will see the chatbot greeting.	<input checked="" type="radio"/>	<input type="radio"/>
OnMembersAddedAsync will be initialized when a user sends a message.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes -

The ActivityHandler.OnMembersAddedAsync method overrides this in a derived class to provide logic for when members other than the bot join the conversation, such as your bot's welcome logic.

Box 2: Yes -

membersAdded is a list of all the members added to the conversation, as described by the conversation update activity.

Box 3: No -

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.bot.builder.activityhandler.onmembersaddedasync?view=botbuilder-dotnet-stable>

EXAM AI-102 TOPIC 5 QUESTION 9 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

Statements	Yes	No
<code> \${user.name} </code> retrieves the user name by using a prompt.	<input type="radio"/>	<input type="radio"/>
Greet () 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"/>

Answer Area

Statements	Yes	No
<code> \${user.name} </code> retrieves the user name by using a prompt.	<input type="radio"/>	<input checked="" type="radio"/>
Suggested Answer: Greet () is the name of the language generation template.	<input type="radio"/>	<input checked="" type="radio"/>
<code> \${Greeting() } </code> is a reference to a template in the language generation file.	<input checked="" type="radio"/>	<input type="radio"/>

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 -

Reference:

<https://docs.microsoft.com/en-us/composer/how-to-ask-for-user-input>

by  kubikjakubik at June 9, 2021, 9:36 p.m.

EXAM AI-102 TOPIC 6 QUESTION 1 DISCUSSION

DRAG DROP -

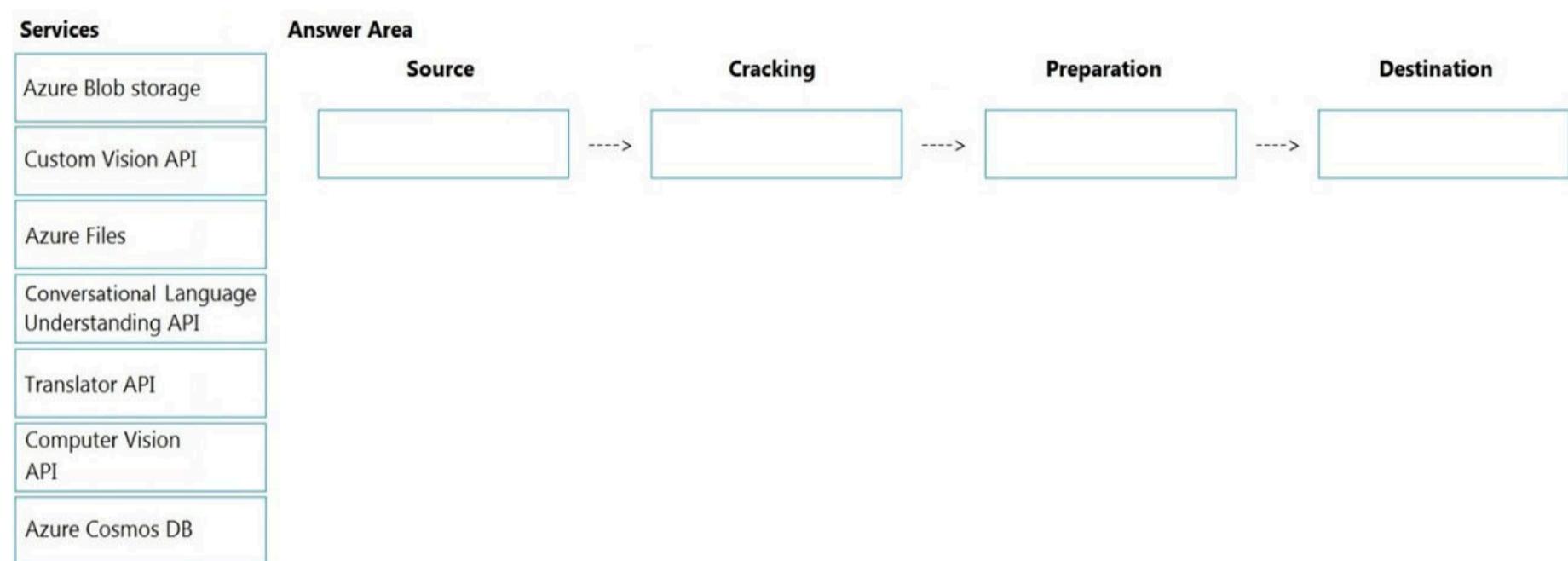
You are developing the smart e-commerce project.

You need to design the skillset to include the contents of PDFs in searches.

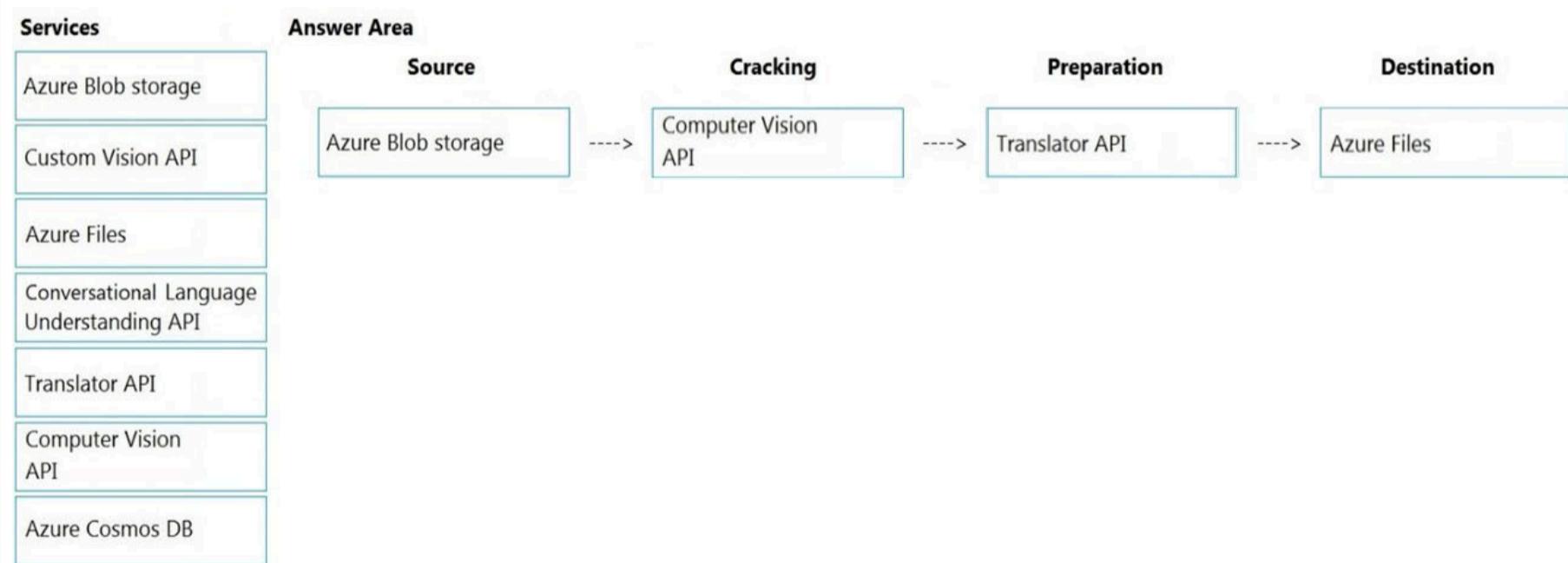
How should you complete the skillset design diagram? To answer, drag the appropriate services to the correct stages. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Suggested Answer:



Box 1: Azure Blob storage -

At the start of the pipeline, you have unstructured text or non-text content (such as images, scanned documents, or JPEG files). Data must exist in an Azure data storage service that can be accessed by an indexer.

Box 2: Computer Vision API -

Scenario: Provide users with the ability to search insight gained from the images, manuals, and videos associated with the products. The Computer Vision Read API is Azure's latest OCR technology (learn what's new) that extracts printed text (in several languages), handwritten text (English only), digits, and currency symbols from images and multi-page PDF documents.

Box 3: Translator API -

Scenario: Product descriptions, transcripts, and alt text must be available in English, Spanish, and Portuguese.

Box 4: Azure Files -

Scenario: Store all raw insight data that was generated, so the data can be processed later.

Incorrect Answers:

The custom vision API from Microsoft Azure learns to recognize specific content in imagery and becomes smarter with training and time.

Reference:

<https://docs.microsoft.com/en-us/azure/search/cognitive-search-concept-intro> <https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-ocr>

by  Sharks82 at Sept. 10, 2022, 12:37 a.m.

EXAM AI-102 TOPIC 6 QUESTION 1 DISCUSSION

DRAG DROP

You have a monitoring solution that uses the Azure AI Anomaly Detector service.

You provision a server named Server1 that has intermittent internet access.

You need to deploy the Azure AI Anomaly Detector to Server1.

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

- Query the prediction endpoint on Server1.
- From Server1, run the docker push command.
- Install the Docker Engine on Server1.
- Query the prediction endpoint of the Azure AI Anomaly Detector in Azure.
- From Server1, run the docker run command.
- From Server1, run the docker pull command.

Answer Area

1	
2	
3	
4	



Answer Area

- 1 Install the Docker Engine on Server1.
- 2 From Server1, run the docker pull command.
- 3 From Server1, run the docker run command.
- 4 Query the prediction endpoint on Server1.

Suggested Answer:

by  Murtuza at March 10, 2024, 4:16 p.m.

 EXAM AI-102 TOPIC 7 QUESTION 1 DISCUSSION

You have an Azure subscription. The subscription contains an Azure OpenAI resource that hosts a GPT-4 model named Model1 and an app named App1. App1 uses Model1.

You need to ensure that App1 will NOT return answers that include hate speech.

What should you configure for Model1?

- A. the Frequency penalty parameter
- B. abuse monitoring
- C. a content filter
- D. the Temperature parameter

Suggested Answer: C

Community vote distribution

C (100%)

by  Harry300 at Feb. 29, 2024, 5:48 p.m.

 EXAM AI-102 TOPIC 7 QUESTION 1 DISCUSSION

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. QnAMakerOptions.StrictFilters
- B. QnADialogResponseOptions.CardNoMatchText
- C. QnAMakerOptions.RankerType
- D. QnAMakerOptions.ScoreThreshold

Suggested Answer: D

Community vote distribution

D (90%)	10%
---------	-----

by  [ManAtWorkAtNight](#) at May 12, 2022, 10:25 a.m.

EXAM AI-102 TOPIC 7 QUESTION 10 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure OpenAI resource named AI1.

You plan to develop a console app that will answer user questions.

You need to call AI1 and output the results to the console.

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

```
openai.api_key = key
openai.api_base = endpoint
response =
    openai.ChatCompletion.create
    openai.Embedding.create
    openai.Image.create
    engine=deployment_name,
    prompt="What is Microsoft Azure?"
)
print
    (response.choices[0].text)
    (response.id)
    (response.text)
```

Answer Area

```
openai.api_key = key
openai.api_base = endpoint
response =
    openai.ChatCompletion.create
    openai.Embedding.create
    openai.Image.create
```

Suggested Answer:

```
    engine=deployment_name,
    prompt="What is Microsoft Azure?"
)
print
    (response.choices[0].text)
    (response.id)
    (response.text)
```

by  GHill1982 at March 15, 2024, 6:05 a.m.

EXAM AI-102 TOPIC 7 QUESTION 11 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure OpenAI resource named AI1.

You plan to develop a console app that will answer user questions.

You need to call AI1 and output the results to the console.

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

```
OpenAIclient client =  
    new OpenAIclient(new Uri(endpoint), new AzureKeyCredential(key));  
  
Response<Completions> response =  
    client.  
        ▾ (deploymentName, "What is Microsoft Azure?");  
        ▾ GetCompletions  
        ▾ GetEmbeddings  
        ▾ GetImageGenerations  
  
Console.WriteLine  
    ▾ (response.Value.Choices[0].Text);  
    ▾ (response.Value.Id);  
    ▾ (response.Value.PromptFilterResults);
```

Answer Area

```
OpenAIclient client =  
    new OpenAIclient(new Uri(endpoint), new AzureKeyCredential(key));  
  
Response<Completions> response =  
    client.  
        ▾ (deploymentName, "What is Microsoft Azure?");  
        ▾ GetCompletions  
        ▾ GetEmbeddings  
        ▾ GetImageGenerations  
  
Console.WriteLine  
    ▾ (response.Value.Choices[0].Text);  
    ▾ (response.value.Id);  
    ▾ (response.Value.PromptFilterResults);
```

by  GHill1982 at March 15, 2024, 6:07 a.m.

EXAM AI-102 TOPIC 7 QUESTION 12 DISCUSSION

HOTSPOT

You have an Azure subscription.

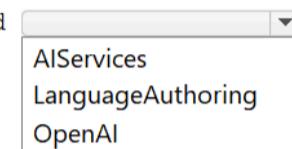
You need to create a new resource that will generate fictional stories in response to user prompts. The solution must ensure that the resource uses a customer-managed key to protect data.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
az cognitiveservices account create -n myresource -g myResourceGroup --kind AI  
--sku S -l WestEurope  
--api-properties  
--assign-identity  
--encryption  
--keySource "Microsoft.KeyVault",  
--keyVaultProperties {  
    "keyName": "KeyName",  
    "keyVersion": "secretVersion",  
    "keyVaultUri": "https://issue23056kv.vault.azure.net/"  
}  
}'
```



Answer Area

```
az cognitiveservices account create -n myresource -g myResourceGroup --kind AI  
--sku S -l WestEurope
```



Suggested Answer:

```
--api-properties  
--assign-identity  
--encryption  
--keySource "Microsoft.KeyVault",  
--keyVaultProperties {  
    "keyName": "KeyName",  
    "keyVersion": "secretVersion",  
    "keyVaultUri": "https://issue23056kv.vault.azure.net/"  
}  
}'
```

by chandiochan at March 5, 2024, 5:37 a.m.

EXAM AI-102 TOPIC 7 QUESTION 15 DISCUSSION

HOTSPOT

In Azure OpenAI Studio, you are prototyping a chatbot by using Chat playground.

You need to configure the chatbot to meet the following requirements:

- Reduce the repetition of words in conversations.
- Reduce the randomness of each response.

Which two parameters should you modify? To answer, select the appropriate parameters in the answer area.

NOTE: Each correct answer is worth one point.

Answer Area

Chat session

Clear chat View code Show raw JSON



Start chatting

Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

Type user query here. (Shift + Enter for new line)

Configuration

Deployment Parameters

Max response ⓘ	800
Temperature ⓘ	0.99
Top P ⓘ	0.37
Stop sequence ⓘ	Stop sequences
Frequency penalty ⓘ	0
Presence penalty ⓘ	0

[Learn more](#)



Current token count ⓘ

Input tokens progress indicator

1/4000

Answer Area**Chat session**

Clear chat Show raw JSON

**Start chatting****Suggested Answer:**

Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

Type user query here. (Shift + Enter for new line)

Configuration Deployment Parameters

Max response ⓘ 800

Temperature ⓘ 0.99

Top P ⓘ 0.37

Stop sequence ⓘ

Stop sequences

Frequency penalty ⓘ 0

Presence penalty ⓘ 0

[Learn more](#)

Current token count ⓘ

Input tokens progress indicator

1/4000

by Toby86 at July 9, 2024, 7:32 p.m.

 EXAM AI-102 TOPIC 7 QUESTION 16 DISCUSSION

You have an Azure subscription.

You need to build an app that will compare documents for semantic similarity. The solution must meet the following requirements:

- Return numeric vectors that represent the tokens of each document.
- Minimize development effort.

Which Azure OpenAI model should you use?

- A. GPT-3.5
- B. GPT-4
- C. embeddings
- D. DALL-E

Suggested Answer: C

Community vote distribution

C (100%)

by  Toby86 at July 9, 2024, 7:34 p.m.

EXAM AI-102 TOPIC 7 QUESTION 17 DISCUSSION

You have an Azure OpenAI model.

You have 500 prompt-completion pairs that will be used as training data to fine-tune the model.

You need to prepare the training data.

Which format should you use for the training data file?

- A. CSV
- B. XML
- C. JSONL
- D. TSV

Suggested Answer: C

Community vote distribution

C (100%)

by  cheetah313 at Oct. 21, 2024, 8:19 a.m.

 EXAM AI-102 TOPIC 7 QUESTION 18 DISCUSSION

You have a custom Azure OpenAI model.

You have the files shown in the following table.

Name	Size
File1.tsv	80 MB
File2.xml	25 MB
File3.pdf	50 MB
File4.xlsx	200 MB

You need to prepare training data for the model by using the OpenAI CLI data preparation tool.

Which files can you upload to the tool?

- A. File1.tsv only
- B. File2.xml only
- C. File3.pdf only
- D. File4.xlsx only
- E. File1.tsv and File4.xlsx only
- F. File1.tsv, File2.xml and File4.xlsx only
- G. File1.tsv, File2.xml, File3.pdf and File4.xlsx

Suggested Answer: E

Community vote distribution

E (57%)

A (43%)

by  jafaca at Oct. 15, 2024, 6:37 p.m.

 EXAM AI-102 TOPIC 7 QUESTION 19 DISCUSSION

You have an Azure subscription that contains an Azure OpenAI resource named OpenAI1 and a user named User1.

You need to ensure that User1 can upload datasets to OpenAI1 and finetune the existing models. The solution must follow the principle of least privilege.

Which role should you assign to User1?

- A. Cognitive Services OpenAI Contributor
- B. Cognitive Services Contributor
- C. Cognitive Services OpenAI User
- D. Contributor

Suggested Answer: A

Community vote distribution

A (100%)

by  Rubby at Oct. 22, 2024, 1:59 a.m.

 EXAM AI-102 TOPIC 7 QUESTION 2 DISCUSSION

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 add an additional component to meet the technical requirements and the chatbot requirements.

What should you add?

- A. Microsoft Translator
- B. Language Understanding
- C. Orchestrator
- D. chatdown

Suggested Answer: C

Community vote distribution

C (39%) A (36%) B (25%)

by  g2000 at May 20, 2022, 4:48 p.m.

 EXAM AI-102 TOPIC 7 QUESTION 2 DISCUSSION

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

Suggested Answer: *D*

Community vote distribution

D (78%) C (17%) 4%

by  audlindr at Feb. 29, 2024, 9:43 p.m.

EXAM AI-102 TOPIC 7 QUESTION 20 DISCUSSION

You have an Azure subscription and 10,000 ASCII files.

You need to identify files that contain specific phrases. The solution must use cosine similarity.

Which Azure OpenAI model should you use?

- A. text-embedding-ada-002
- B. GPT-4
- C. GPT-35 Turbo
- D. GPT-4-32k

Suggested Answer: A

Community vote distribution

A (100%)

by  [a8da4af](#) at Oct. 29, 2024, 12:23 a.m.

EXAM AI-102 TOPIC 7 QUESTION 21 DISCUSSION

You have an Azure subscription that contains an Azure OpenAI resource named AI1 and a user named User1.

You need to ensure that User1 can perform the following actions in Azure OpenAI Studio:

- Identify resource endpoints.
- View models that are available for deployment.
- Generate text and images by using the deployed models.

The solution must follow the principle of least privilege.

Which role should you assign to User1?

- A. Cognitive Services OpenAI User
- B. Cognitive Services Contributor
- C. Contributor
- D. Cognitive Services OpenAI Contributor

Suggested Answer: A

Community vote distribution

A (100%)

by  [Rubby](#) at Oct. 22, 2024, 2:01 a.m.

 EXAM AI-102 TOPIC 7 QUESTION 22 DISCUSSION

HOTSPOT

You have a chatbot that uses Azure OpenAI to generate responses.

You need to upload company data by using Chat playground. The solution must ensure that the chatbot uses the data to answer user questions.

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

```
completion = openai. .create(  
    ChatCompletion  
    Completion  
    Embedding  
  
    messages=[{"role": "user", "content": "What are the differences between Azure Machine Learning and Azure AI services?"}],  
    deployment_id=os.environ.get("AOAIDDeploymentId"),  
    dataSources=[  
        {  
            "type":   
            "AzureDocumentIntelligence",  
            "Blobstorage",  
        }  
        "parameters": {  
            "endpoint": os.environ.get("SearchEndpoint"),  
            "key": os.environ.get("SearchKey"),  
            "indexName": os.environ.get("SearchIndex"),  
        }  
    ]  
)
```

Answer Area

```
completion = openai. .create(  
    ChatCompletion  
    Completion  
    Embedding  
  
    messages=[{"role": "user", "content": "What are the differences between Azure Machine Learning and Azure AI services?"}],  
    deployment_id=os.environ.get("AOAIDDeploymentId"),  
    dataSources=[  
        {  
            "type":   
            "AzureDocumentIntelligence",  
            "Blobstorage",  
        }  
        "parameters": {  
            "endpoint": os.environ.get("SearchEndpoint"),  
            "key": os.environ.get("SearchKey"),  
            "indexName": os.environ.get("SearchIndex"),  
        }  
    ]
```

Suggested Answer:

by  jafaca at Oct. 15, 2024, 6:57 p.m.

EXAM AI-102 TOPIC 7 QUESTION 23 DISCUSSION

HOTSPOT

You are building an app that will provide users with definitions of common AI terms.

You create the following Python code.

```
...
openai.api_key = key
openai.api_base = endpoint
response = openai.ChatCompletion.create(
    engine=deployment_name
    messages=[
        {"role": "system", "content": "You are a helpful assistant."},
        {"role": "user", "content": "What is an LLM?"}
    ]
)

print(response['choices'][0]['message']['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.

Answer Area

Statements	Yes	No
The response will contain an explanation of large language models (LLMs) that has a high degree of certainty.	<input type="radio"/>	<input type="radio"/>
Changing "What is an LLM?" to "What is an LLM in the context of AI models?" will produce the intended response.	<input type="radio"/>	<input type="radio"/>
Changing "You are a helpful assistant." to "You must answer only within the context of AI language models." will produce the intended response.	<input type="radio"/>	<input type="radio"/>

Answer Area			
Suggested Answer:	Statements	Yes	No
	The response will contain an explanation of large language models (LLMs) that has a high degree of certainty.	<input type="radio"/>	<input checked="" type="radio"/>
	Changing "What is an LLM?" to "What is an LLM in the context of AI models?" will produce the intended response.	<input checked="" type="radio"/>	<input type="radio"/>
	Changing "You are a helpful assistant." to "You must answer only within the context of AI language models." will produce the intended response.	<input checked="" type="radio"/>	<input type="radio"/>

EXAM AI-102 TOPIC 7 QUESTION 3 DISCUSSION

HOTSPOT

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

Chat session

Clear chat View code Show raw JSON

Start chatting

Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

Type user query here. (Shift + Enter for new line)

▶ ⏪

Configuration X

Deployment Parameters

Max response ⓘ	800
Temperature ⓘ	0.7
Top P ⓘ	0.9
Stop sequence ⓘ	Stop sequences
Frequency penalty ⓘ	0
Presence penalty ⓘ	0

[Learn more](#) ⓘ

Current token count ⓘ

Input tokens progress indicator

1/4000

Answer Area

Suggested Answer:

Chat session

Clear chat View code Show raw JSON

 Start chatting
Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

Type user query here. (Shift + Enter for new line) ▶ ↻

Configuration X

Deployment Parameters

Max response 800

Temperature 0.7

Top P 0.9

Stop sequence Stop sequences

Frequency penalty 0

Presence penalty 0

[Learn more](#)

Current token count 0

Input tokens progress indicator
1/4000

by  audlindr at Feb. 29, 2024, 9:45 p.m.

 EXAM AI-102 TOPIC 7 QUESTION 4 DISCUSSION

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.

Suggested Answer: A

Community vote distribution

A (65%) D (21%) C (15%)

by  chandiochan at March 4, 2024, 4:56 a.m.

 EXAM AI-102 TOPIC 7 QUESTION 5 DISCUSSION

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).

Suggested Answer: BC

Community vote distribution

BC (100%)

by  Delta64 at March 2, 2024, 3:06 p.m.

EXAM AI-102 TOPIC 7 QUESTION 6 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure OpenAI resource named AI1.

You build a chatbot that will use AI1 to provide generative answers to specific questions.

You need to ensure that the responses are more creative and less deterministic.

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

```
new ChatCompletionsOptions()
{
    Messages =
    {
        new ChatMessage(
            ,
            , @"""),
        ChatRole.Assistant
        ChatRole.Function
        ChatRole.System
        ChatRole.User
    },
    = (float)1.0,
    ChatRole.User
    PresencePenalty
    Temperature
    TokenSelectionBiases
    MaxTokens = 800,
});
```

Answer Area

Suggested Answer:

```
new ChatCompletionsOptions()
{
    Messages =
    {
        new ChatMessage(
            },
            , @""),

        ChatRole.Assistant
        ChatRole.Function
        ChatRole.System
        ChatRole.User
    }
    = (float)1.0,
    Temperature
    TokenSelectionBiases
}
MaxTokens = 800,
});
```

by  chandiochan at March 5, 2024, 4:36 a.m.

EXAM AI-102 TOPIC 7 QUESTION 7 DISCUSSION

DRAG DROP

You have an Azure subscription that contains an Azure OpenAI resource named AI1.

You plan to build an app named App1 that will write press releases by using AI1.

You need to deploy an Azure OpenAI model for App1. The solution must minimize development effort.

Which three actions should you perform in sequence in Azure OpenAI Studio? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Create a deployment that uses the text-embedding-ada-002 model.
- Apply the Marketing Writing Assistant system message template.
- Apply the Default system message template.
- Create a deployment that uses the GPT-35 Turbo model.
- Deploy the solution to a new web app.

Answer Area

1	
2	
3	



Answer Area

- Suggested Answer:**
- 1 Create a deployment that uses the GPT-35 Turbo model.
 - 2 Apply the Marketing Writing Assistant system message template.
 - 3 Deploy the solution to a new web app.

by witkor at March 8, 2024, 10:41 a.m.

EXAM AI-102 TOPIC 7 QUESTION 8 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure OpenAI resource named AI1.

You build a chatbot that will use AI1 to provide generative answers to specific questions.

You need to ensure that the responses are more creative and less deterministic.

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

```
response = openai.ChatCompletion.create(  
    engine="dgw-aoai-gpt35",  
    messages = [{"role": "assistant", "content":""}],  
    temperature=1,  
    max_tokens=800,  
    stop=None)
```

Answer Area

```
response = openai.ChatCompletion.create(  
    engine="dgw-aoai-gpt35",  
    messages = [{"role": "assistant", "content":""}],
```

Suggested Answer:

```
    temperature=1,  
    max_tokens=800,  
    stop=None)
```

by  Harry300 at March 3, 2024, 10:30 a.m.

EXAM AI-102 TOPIC 7 QUESTION 9 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure OpenAI resource.

You configure a model that has the following settings:

- Temperature: 1
- Top probabilities: 0.5
- Max response tokens: 100

You ask the model a question and receive the following response.

```
{  
  "choices": [  
    {  
      "finish_reason": "stop",  
      "index": 0,  
      "message": {  
        "content": "The founders of Microsoft are Bill Gates and Paul Allen. They co-founded the company in 1975.",  
        "role": "assistant"  
      }  
    }  
  ],  
  "created": 1679014554,  
  "id": "chatcmpl-6usfn2yyjkbmESe3G4jaQR6bDSc01",  
  "model": "gpt-3.5-turbo-0301",  
  "object": "chat.completion",  
  "usage": {  
    "completion_tokens": 86,  
    "prompt_tokens": 37,  
    "total_tokens": 123  
  }  
}
```

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 subscription will be charged 86 tokens for the execution of the session.

The text completion was truncated because the Max response tokens value was exceeded.

The prompt_tokens value will be included in the calculation of the Max response tokens value.

Answer Area

Statements

Yes No

Suggested Answer: The subscription will be charged 86 tokens for the execution of the session.

The text completion was truncated because the Max response tokens value was exceeded.

The prompt_tokens value will be included in the calculation of the Max response tokens value.

EXAM AI-102 TOPIC 8 QUESTION 1 DISCUSSION

You have an Azure subscription that contains an Azure OpenAI resource named AI1.

You build a chatbot that uses AI1 to provide generative answers to specific questions.

You need to ensure that the chatbot checks all input and output for objectionable content.

Which type of resource should you create first?

- A. Microsoft Defender Threat Intelligence (Defender TI)
- B. Azure AI Content Safety
- C. Log Analytics
- D. Azure Machine Learning

Suggested Answer: *B*

Community vote distribution

B (100%)

by  [a8da4af](#) at Oct. 29, 2024, 12:34 a.m.

 EXAM AI-102 TOPIC 8 QUESTION 1 DISCUSSION

HOTSPOT -

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.

Hot Area:

Answer Area

Management-Accountants

<input type="checkbox"/>
Owner
Contributor
Cognitive Services User
Cognitive Services QnA Maker Read
Cognitive Services QnA Maker Editor

Consultant-Accountants

<input type="checkbox"/>
Owner
Contributor
Cognitive Services User
Cognitive Services QnA Maker Read
Cognitive Services QnA Maker Editor

Agent-CustomerServices

<input type="checkbox"/>
Owner
Contributor
Cognitive Services User
Cognitive Services QnA Maker Read
Cognitive Services QnA Maker Editor

Suggested Answer:

Answer Area

Management-Accountants

Owner
Contributor
Cognitive Services User
Cognitive Services QnA Maker Read
Cognitive Services QnA Maker Editor

Consultant-Accountants

Owner
Contributor
Cognitive Services User
Cognitive Services QnA Maker Read
Cognitive Services QnA Maker Editor

Agent-CustomerServices

Owner
Contributor
Cognitive Services User
Cognitive Services QnA Maker Read
Cognitive Services QnA Maker Editor

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 -

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/concepts/role-based-access-control>

 EXAM AI-102 TOPIC 8 QUESTION 10 DISCUSSION

You have an Azure subscription that contains an Azure AI Content Safety resource named CS1.

You plan to build an app that will analyze user-generated documents and identify obscure offensive terms.

You need to create a dictionary that will contain the offensive terms. The solution must minimize development effort.

What should you use?

- A. a text classifier
- B. language detection
- C. text moderation
- D. a blocklist

Suggested Answer: *D*

Community vote distribution

D (100%)

by  [a8da4af](#) at Oct. 29, 2024, 11:12 p.m.

EXAM AI-102 TOPIC 8 QUESTION 11 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure AI Content Safety resource named CS1.

You need to use the SDK to call CS1 to identify requests that contain harmful 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

```
var client = new ContentSafetyClient((new Uri(endpoint), new AzureKeyCredential(key));  
var request = new AnalyzeTextOptions("what is the weather forecast for Seattle");  
Response<AnalyzeTextResult> response;  
response = client.AnalyzeText(request);
```

Answer Area

```
var client = new ContentSafetyClient((new Uri(endpoint), new AzureKeyCredential(key));
```

Suggested Answer:

```
var request = new AnalyzeTextOptions("what is the weather forecast for Seattle");  
Response<AnalyzeTextResult> response;  
response = client.AnalyzeText(request);
```

by  cheetah313 at Oct. 21, 2024, 8:45 a.m.

 EXAM AI-102 TOPIC 8 QUESTION 12 DISCUSSION

You have an Azure subscription that contains an Azure OpenAI resource named AI1.

You build a chatbot that uses AI1 to provide generative answers to specific questions.

You need to ensure that questions intended to circumvent built-in safety features are blocked.

Which Azure AI Content Safety feature should you implement?

- A. Monitor online activity
- B. Jailbreak risk detection
- C. Moderate text content
- D. Protected material text detection

Suggested Answer: *B*

Community vote distribution

B (100%)

by  cf1086a at Oct. 21, 2024, 5:21 p.m.

EXAM AI-102 TOPIC 8 QUESTION 2 DISCUSSION

You have an Azure subscription that contains an Azure AI Content Safety resource named CS1.

You create a test image that contains a circle.

You submit the test image to CS1 by using the curl command and the following command-line parameters.

```
--data-raw '{  
  "image": {  
    "content": "<base_64_string>"  
  },  
  "categories": [  
    "Violence"  
  ],  
  "outputType": "EightSeverityLevels"  
}
```

What should you expect as the output?

- A. 0
- B. 0.0
- C. 7
- D. 100

Suggested Answer: A

Community vote distribution

A (100%)

by  jafaca at Oct. 15, 2024, 7:05 p.m.

 EXAM AI-102 TOPIC 8 QUESTION 3 DISCUSSION

You have an Azure subscription.

You are building a social media app that will enable users to share images.

You need to ensure that inappropriate content uploaded by the users is blocked. The solution must minimize development effort.

What are two tools that you can use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure AI Document Intelligence
- B. Microsoft Defender for Cloud Apps
- C. Azure AI Content Safety
- D. Azure AI Vision
- E. Azure AI Custom Vision

Suggested Answer: CD

Community vote distribution

CD (80%)

C (20%)

by  jafaca at Oct. 17, 2024, 2:06 p.m.

EXAM AI-102 TOPIC 8 QUESTION 4 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure AI Content Safety resource named CS1.

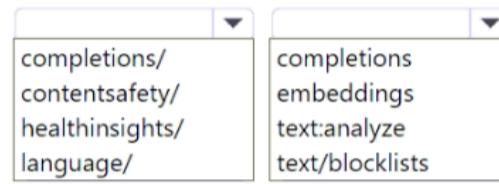
You need to call CS1 to identify whether a user request contains hateful language.

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

NOTE: Each correct selection is worth one point.

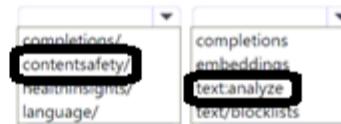
Answer Area

```
curl --location --request POST 'https://cs1.cognitiveservices.azure.com/'  
--header 'Ocp-Apim-Subscription-Key: <your_subscription_key>' \  
--header 'Content-Type: application/json' \  
--data-raw '{  
    "text": "What is the weather forecast for Seattle",  
    "categories": ["Hate"]  
    "blocklistNames": [  
        "string"  
    ],  
    "haltonBlocklistHit": true,  
    "outputType": "FourSeverityLevels"  
}' ?api-version=2023-10-01'
```



Answer Area

```
curl --location --request POST 'https://cs1.cognitiveservices.azure.com/'  
--header 'Ocp-Apim-Subscription-Key: <your_subscription_key>' \  
--header 'Content-Type: application/json' \  
--data-raw '{  
    "text": "What is the weather forecast for Seattle",  
    "categories": ["Hate"]  
    "blocklistNames": [  
        "string"  
    ],  
    "haltonBlocklistHit": true,  
    "outputType": "FourSeverityLevels"  
}' ?api-version=2023-10-01'
```



Suggested Answer:

by cf1086a at Oct. 21, 2024, 5:19 p.m.

EXAM AI-102 TOPIC 8 QUESTION 5 DISCUSSION

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 subscription that contains an Azure OpenAI resource named AI1 and an Azure AI Content Safety resource named CS1.

You build a chatbot that uses AI1 to provide generative answers to specific questions and CS1 to check input and output for objectionable content.

You need to optimize the content filter configurations by running tests on sample questions.

Solution: From Content Safety Studio, you use the Protected material detection feature to run the tests.

Does this meet the requirement?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (75%)

A (25%)

by  cf1086a at Oct. 21, 2024, 5:19 p.m.

EXAM AI-102 TOPIC 8 QUESTION 6 DISCUSSION

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 subscription that contains an Azure OpenAI resource named AI1 and an Azure AI Content Safety resource named CS1.

You build a chatbot that uses AI1 to provide generative answers to specific questions and CS1 to check input and output for objectionable content.

You need to optimize the content filter configurations by running tests on sample questions.

Solution: From Content Safety Studio, you use the Moderate text content feature to run the tests.

Does this meet the requirement?

- A. Yes
- B. No

Suggested Answer: A

Community vote distribution

A (100%)

by  cf1086a at Oct. 21, 2024, 5:19 p.m.

EXAM AI-102 TOPIC 8 QUESTION 7 DISCUSSION

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 subscription that contains an Azure OpenAI resource named AI1 and an Azure AI Content Safety resource named CS1.

You build a chatbot that uses AI1 to provide generative answers to specific questions and CS1 to check input and output for objectionable content.

You need to optimize the content filter configurations by running tests on sample questions.

Solution: From Content Safety Studio, you use the Monitor online activity feature to run the tests.

Does this meet the requirement?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  cf1086a at Oct. 21, 2024, 5:19 p.m.

EXAM AI-102 TOPIC 8 QUESTION 8 DISCUSSION

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 subscription that contains an Azure OpenAI resource named AI1 and an Azure AI Content Safety resource named CS1.

You build a chatbot that uses AI1 to provide generative answers to specific questions and CS1 to check input and output for objectionable content.

You need to optimize the content filter configurations by running tests on sample questions.

Solution: From Content Safety Studio, you use the Safety metaprompt feature to run the tests.

Does this meet the requirement?

- A. Yes
- B. No

Suggested Answer: B

Community vote distribution

B (100%)

by  a8da4af at Oct. 29, 2024, 11:09 p.m.

EXAM AI-102 TOPIC 8 QUESTION 9 DISCUSSION

HOTSPOT

You have an Azure subscription that contains an Azure AI Content Safety resource.

You are building a social media app that will enable users to share images.

You need to configure the app to moderate inappropriate content uploaded by the users.

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

```
public static void Analyze(AnalyzeImageOptions request)
{
    var endpoint = Environment.GetEnvironmentVariable("ENDPOINT");
    var key = Environment.GetEnvironmentVariable("KEY");
    var client = new ContentSafetyClient(new Uri(endpoint), new AzureKeyCredential(key));
    return client.AnalyzeImage(request);
}
```

Answer Area

```
public static void Analyze(AnalyzeImageOptions request)
{
    var endpoint = Environment.GetEnvironmentVariable("ENDPOINT");
    var key = Environment.GetEnvironmentVariable("KEY");
    var client = new ContentSafetyClient(new Uri(endpoint), new AzureKeyCredential(key));
    return client.AnalyzeImage(request);
}
```

Suggested Answer:

by  cf1086a at Oct. 21, 2024, 5:21 p.m.

EXAM AI-102 TOPIC 9 QUESTION 1 DISCUSSION

DRAG DROP -

You are planning the product creation project.

You need to recommend a process for analyzing videos.

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.

Select and Place:

Actions

Index the video by using the Azure Video Analyzer for Media (previously Video Indexer) API.

Upload the video to blob storage.

Analyze the video by using the Computer Vision API.

Extract the transcript from Microsoft Stream.

Send the transcript to the Language Understanding API as an utterance.

Extract the transcript from the Azure Video Analyzer for Media (previously Video Indexer) API.

Translate the transcript by using the Translator API.

Upload the video to file storage.

Answer Area

Suggested Answer:

Actions

Analyze the video by using the Computer Vision API.

Extract the transcript from Microsoft Stream.

Send the transcript to the Language Understanding API as an utterance.

Upload the video to file storage.

Answer Area

Upload the video to blob storage.

Index the video by using the Azure Video Analyzer for Media (previously Video Indexer) API.

Extract the transcript from the Azure Video Analyzer for Media (previously Video Indexer) API.

Translate the transcript by using the Translator API.

Scenario: All videos must have transcripts that are associated to the video and included in product descriptions.

Product descriptions, transcripts, and alt text must be available in English, Spanish, and Portuguese.

Step 1: Upload the video to blob storage

Given a video or audio file, the file is first dropped into a Blob Storage. T

Step 2: Index the video by using the Video Indexer API.

When a video is indexed, Video Indexer produces the JSON content that contains details of the specified video insights. The insights include: transcripts, OCRs, faces, topics, blocks, etc.

Step 3: Extract the transcript from the Video Indexer API.

Step 4: Translate the transcript by using the Translator API.

Reference:

<https://azure.microsoft.com/en-us/blog/get-video-insights-in-even-more-languages/> <https://docs.microsoft.com/en-us/azure/media-services/video-indexer/video-indexer-output-json-v2>

by 8 ninja at Aug. 17, 2022, 7:36 p.m.

 EXAM AI-102 TOPIC 9 QUESTION 2 DISCUSSION

HOTSPOT -

You need to develop code to upload images for the product creation project. The solution must meet the accessibility requirements.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
public static async Task<string> SuggestAltText(ComputerVisionClient client,
{
    List<VisualFeatureTypes?> features = new List<VisualFeatureTypes?>()
    {
        VisualFeatureTypes.Description
        VisualFeatureTypes.ImageType
        VisualFeatureTypes.Objects
        VisualFeatureTypes.Tags
    };
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);
    var c = results.Brands.DetectedBrands[0]
    var c = results.Description.Captions[0]
    var c = results.Metadata[0]
    var c = results.Objects[0]

    if(c.Confidence>0.5) return(c.Text);
}
```

Dictionary
stream
string

Suggested Answer:

Answer Area

```
public static async Task<string> SuggestAltText(ComputerVisionClient client,
{
    List<VisualFeatureTypes?> features = new List<VisualFeatureTypes?>()
    {
        VisualFeatureTypes.Description
        VisualFeatureTypes.ImageType
        VisualFeatureTypes.Objects
        VisualFeatureTypes.Tags
    };
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);
    var c = results.Brands.DetectedBrands[0]
    var c = results.Description.Captions[0]
    var c = results.Metadata[0]
    var c = results.Objects[0]

    if(c.Confidence>0.5) return(c.Text);
}
```

Dictionary
stream
string

Reference:

<https://github.com/Azure-Samples/cognitive-services-dotnet-sdk-samples/blob/master/documentation-samples/quickstarts/ComputerVision/Program.cs>