



Free Questions for [AI-102](#) by [dumpshq](#)

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Question 1

Question Type: MultipleChoice

You build a Language Understanding model by using the Language Understanding portal.

You export the model as a JSON file as shown in the following sample.

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

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

Options:

A- by month

B- chicago

C- rain

D- location

Answer:

A

Question 2

Question Type: MultipleChoice

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?

Options:

A- `create_resource('res1', 'ContentModerator', 'S0', 'eastus')`

B- `create_resource('res1', 'TextAnalytics', 'S0', 'eastus')`

C- `create_resource('res1', 'ContentModerator', 'Standard', 'East US')`

D- `create_resource('res1', 'TextAnalytics', 'Standard', 'East US')`

Answer:

B

Explanation:

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

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

Possible location names include: westus, eastus

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

Question 3

Question Type: MultipleChoice

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(imageFilePath);
    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.

Options:

- 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.

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?

Answer:

D

Explanation:

Evaluate different models.

The best way to compare the performances of the detection models is to use them on a sample dataset. We recommend calling the Face - Detect API on a variety of images, especially images of many faces or of faces that are difficult to see, using each detection model. Pay attention to the number of faces that each model returns.

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

Question 4

Question Type: MultipleChoice

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?

Options:

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

Answer:

D

Explanation:

Inclusiveness: AI systems should empower everyone and engage people.

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

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

Question 5

Question Type: MultipleChoice

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 private endpoint to vnet1.

Does this meet the goal?

Options:

A- Yes

B- No

Answer:

A

Explanation:

A private endpoint is a network interface that uses a private IP address from your virtual network. This network interface connects you privately and securely to a service powered by Azure Private Link. By enabling a private endpoint, you're bringing the service into your virtual network.

The service could be an Azure service such as:

Azure Storage

Azure Cosmos DB

Azure SQL Database

Your own service using a Private Link Service.

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

Question 6

Question Type: MultipleChoice

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?

Options:

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

Answer:

C

Question 7

Question Type: MultipleChoice

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.

Options:

- 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.

Answer:

A, B, C

Explanation:

You can use the Speech service to voice-enable a chat bot.

The Direct Line Speech channel uses the text-to-speech service, which has neural and standard voices.

You'll need to make a small configuration change so that your bot can communicate with the Direct Line Speech channel using web sockets.

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/tutorial-voice-enable-your-bot-speech-sdk>

Question 8

Question Type: MultipleChoice

You are building a chatbot by using the Microsoft Bot Framework Composer as shown in the exhibit. (Click the Exhibit tab.)

The screenshot displays the Microsoft Bot Framework Composer interface. On the left, a dialog flow is shown for a dialog named 'BeginDialog'. The flow starts with a 'BeginDialog' event, followed by a 'Bot Asks (Text)' control with the prompt 'What is your name?'. This is followed by a 'User input (Text)' control with the configuration '(SCOPE).name = Input(Text)'. The flow ends with a connector. On the right, the configuration for the 'User input (Text)' control is shown. The control is titled 'Prompt for text' and is described as 'Text Input' with the collection information 'Ask for a word or sentence'. The configuration includes tabs for 'Bot response', 'User input', and 'Other'. The 'User input' tab is active, showing the following settings: Property is set to 'string', the value is '(SCOPE).name', Output format is set to 'string', and the Value is set to 'string'. The 'Expected responses (intent)' section shows '#TextInput_Response_FuyF4'.

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?

Options:

A- dialog

B- user

C- curn

D- conversation

Answer:

A

Explanation:

The dialog scope associates properties with the active dialog. Properties in the dialog scope are retained until the dialog ends.

Incorrect Answers:

A: The conversation scope associates properties with the current conversation. Properties in the conversation scope have a lifetime of the conversation itself. These properties are in scope while the bot is processing an activity associated with the conversation (for example, multiple users together in a Microsoft Teams channel).

B: The user scope associates properties with the current user. Properties in the user scope do not expire. These properties are in scope while the bot is processing an activity associated with the user.

C: The turn scope associates properties with the current turn. Properties in the turn scope expire at the end of the turn.

<https://docs.microsoft.com/en-us/composer/concept-memory?tabs=v2x>

Question 9

Question Type: MultipleChoice

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.

Options:

- 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.

Answer:

C, D, F

Explanation:

Your documents must include a field specifying which groups have access. This information becomes the filter criteria against which documents are selected or rejected from the result set returned to the issuer.

D: A query request targets the documents collection of a single index on a search service.

CF: In order to trim documents based on group_ids access, you should issue a search query with a group_ids/any(g:search.in(g, 'group_id1, group_id2,...')) filter, where 'group_id1, group_id2,...' are the groups to which the search request issuer belongs.

Question 10

Question Type: MultipleChoice

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?

Options:

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

Answer:

A

Explanation:

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

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

Question 11

Question Type: MultipleChoice

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 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?

Options:

A- Yes

B- No

Answer:

B

Explanation:

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

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

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

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

Question 12

Question Type: MultipleChoice

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 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?

Options:

A- Yes

B- No

Answer:

B

Explanation:

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

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

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

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