AI-102 Q&As

Designing and Implementing a Microsoft Azure AI Solution

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QUESTION 1

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.

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

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

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 a group of 10,000 people.	○	○
`AddFace` can be called multiple times to add multiple face images to a person object.	○	○

Correct 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 a group of 10,000 people.	○	○
`AddFace` can be called multiple times to add multiple face images to a person object.	○	○

Statements	Yes	No
The code will add a face image to a person object in a person group.	○	○
The code will work for a group of 10,000 people.	○	○
`AddFace` can be called multiple times to add multiple face images to a person object.	○	○

A. True

B. True

C. True

B: see this example code from documentation that uses PersonGroup of size 10,000 :

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

the question wants to trick you into thinking you need to use a LargePersonGroup for a size of 10,000 - but the documentation for it doesn\\'t include this limitation or criteria:

https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/how-to-use-large-scale

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QUESTION 2

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.

Correct Answer: CDF

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.

Reference: https://docs.microsoft.com/en-us/azure/search/search-security-trimming-for-azure-search

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QUESTION 3

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

1.

Perform anomaly detection across multiple correlated sensors

2.

Identify the root cause of process stops.

3.

Send incident alerts

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

A. Azure Metrics Advisor

B. Form Recognizer

C. Azure Machine teaming

D. Anomaly Detector

Correct Answer: A

QUESTION 4

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

Correct Answer: A

The model needs to be extended and retrained.

QUESTION 5

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

Correct Answer: C

The wiki contains text in English, French and Portuguese.

Scenario: All planned projects must support English, French, and Portuguese.

The Document Extraction skill extracts content from a file within the enrichment pipeline. This allows you to take advantage of the document extraction step that normally happens before the skillset execution with files that may be generated

by other skills.

Note: The Translator Text API will be used to determine the from language. The Language detection skill is not required.

Incorrect Answers:

Not A, not B: The wiki is stored in Azure Cosmos DB.

Reference:

https://docs.microsoft.com/en-us/azure/search/cognitive-search-skill-document-extraction

https://docs.microsoft.com/en-us/azure/search/cognitive-search-skill-text-translation