

➤ **Vendor: Microsoft**

➤ **Exam Code: AI-102**

➤ **Exam Name: Microsoft Security Operations Analyst**

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QUESTION 63

Hotspot Question

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.

`ConversationData`

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.

Answer Area

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

Answer:

Answer Area

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

Explanation:

Box 1: Yes

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

Box 2: Yes

Box 3: No

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

Reference:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-v4-state>

QUESTION 64

Hotspot Question

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.

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:

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	

Explanation:

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>

QUESTION 65

Case Study - Wide World Importers

Overview

Existing Environment

A company named Wide World Importers is developing an e-commerce platform.

You are working with a solutions architect to design and implement the features of the e-commerce platform. The platform will use microservices and a serverless environment built on Azure.

Wide World Importers has a customer base that includes English, Spanish, and Portuguese speakers.

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<https://www.braindump2go.com/ai-102.html>

Applications

Wide World Importers has an App Service plan that contains the web apps shown in the following table.

Name	Description
Product Management	An app used by employees to create and manage products. The app and the expected inputs from the employees are in English.
Inventory Tracking	An app used by employees to manage inventory when dispatching orders, receiving refunds, and receiving consignments from suppliers.

Azure Resources

You have the following resources:

- An Azure Active Directory (Azure AD) tenant
- The tenant supports internal authentication.
- All employees belong to a group named AllUsers.
- Senior managers belong to a group named LeadershipTeam.
- An Azure Functions resource
- A function app posts to Azure Event Grid when stock levels of a product change between OK, Low Stock, and Out of Stock. The function app uses the Azure Cosmos DB change feed.
- An Azure Cosmos DB account
- The account uses the Core (SQL) API.
- The account stores data for the Product Management app and the Inventory Tracking app.
- An Azure Storage account
- The account contains blob containers for assets related to products.
- The assets include images, videos, and PDFs.
- An Azure Cognitive Services resource named wwics
- A Video Indexer resource named wwivi

Requirements**Business Goals**

Wide World Importers wants to leverage AI technologies to differentiate itself from its competitors.

Planned Changes

Wide World Importers plans to start the following projects:

- A product creation project: Help employees create accessible and multilingual product entries, while expediting product entry creation.
- A smart e-commerce project: Implement an Azure Cognitive Search solution to display products for customers to browse.
- A shopping on-the-go project: Build a chatbot that can be integrated into smart speakers to support customers.

Business Requirements

Wide World Importers identifies the following business requirements for all the projects:

- Provide a multilingual customer experience that supports English, Spanish, and Portuguese.
- Whenever possible, scale based on transaction volumes to ensure consistent performance.
- Minimize costs.

Governance and Security Requirements

Wide World Importers identifies the following governance and security requirements:

- Data storage and processing must occur in datacenters located in the United States.
- Azure Cognitive Services must be inaccessible directly from the internet.

Accessibility Requirements

Wide World Importers identifies the following accessibility requirements:

- All images must have relevant alt text.
- All videos must have transcripts that are associated to the video and included in product descriptions.
- Product descriptions, transcripts, and all text must be available in English, Spanish, and Portuguese.

Product Creation Requirements

Wide World Importers identifies the following requirements for improving the Product Management app:

- Minimize how long it takes for employees to create products and add assets.
- Remove the need for manual translations.

Smart E-Commerce Requirements

Wide World Importers identifies the following requirements for the smart e-commerce project:

- Ensure that the Cognitive Search solution meets a Service Level Agreement (SLA) of 99.9% availability for searches and index writes.
- Provide users with the ability to search insight gained from the images, manuals, and videos associated with the products.
- Support autocompletion and autosuggestion based on all product name variants.
- Store all raw insight data that was generated, so the data can be processed later.
- Update the stock level field in the product index immediately upon changes.
- Update the product index hourly.

Shopping On-the-Go Requirements

Wide World Importers identifies the following requirements for the shopping on-the-go chatbot:

- Answer common questions.
- Support interactions in English, Spanish, and Portuguese.
- Replace an existing FAQ process so that all Q&A is managed from a central location.
- Provide all employees with the ability to edit Q&As. Only senior managers must be able to publish updates.
- Support purchases by providing information about relevant products to customers. Product displays must include images and warnings when stock levels are low or out of stock.

Product JSON Sample

You have the following JSON sample for a product.

```
{
  "sku": "b1",
  "name": {
    "en": "Bicycle",
    "es": "Bicicleta",
    "pt": "Bicicleta"
  },
  "stocklevel": "Out of Stock",
  "description": {
    "en": "Bicycle",
    "es": "Bicicleta",
    "pt": "Bicicleta"
  },
  "image":
  {"uri": "https://upload.worldwideimporters.org/bicycle.jpg",
    "alttext": {
      "en": "Bicycle",
      "es": "Bicicleta",
      "pt": "Bicicleta"
    }
  },
  "createdUtc": "2020-02-14T06:08:39Z",
  "language": "en"
}
```

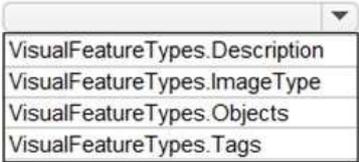
Hotspot Question

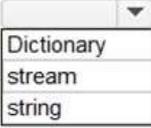
You need to develop code to upload images for the product creation project. The solution must meet the accessibility requirements.

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

NOTE: Each correct selection is worth one point.

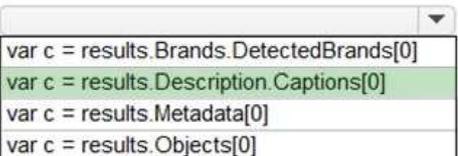
Answer Area

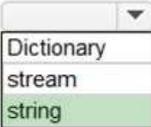
```
public static async Task<string> SuggestAltText(ComputerVisionClient client,
{
    List<VisualFeatureTypes> features = new List<VisualFeatureTypes?>()
    {
        
    };
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);
    
    if(c.Confidence>0.5) return(c.Text);
}
```



Answer:

Answer Area

```
public static async Task<string> SuggestAltText(ComputerVisionClient client,
{
    List<VisualFeatureTypes> features = new List<VisualFeatureTypes?>()
    {
        
    };
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);
    
    if(c.Confidence>0.5) return(c.Text);
}
```



QUESTION 66

A customer uses Azure Cognitive Search. The customer plans to enable a server-side encryption and use customer-managed keys (CMK) stored in Azure. What are three implications of the planned change? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. The index size will increase.
- B. Query times will increase.

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

Answer: ABE

Explanation:

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

QUESTION 67

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

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

Answer: D

Explanation:

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/responsible-ai>

QUESTION 68

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

Answer: A

Explanation:

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

QUESTION 69

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 an IP firewall rule.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

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

QUESTION 70

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

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

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

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

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

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

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

QUESTION 71

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 Cognitive Services service should you use?

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

Answer: A

QUESTION 72

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

Answer: DE

Explanation:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/set-up-qnamaker-service-azure?tabs=v1#delete-azure-resources>

QUESTION 73

You are building a language model by using a Language Understanding service. You create a new Language Understanding resource. You need to add more contributors. What should you use?

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

Answer: B

Explanation:

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

QUESTION 74

You are building a 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

Answer: B

Explanation:

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

QUESTION 75

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.

Answer: AC

Explanation:

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

QUESTION 76

You are building a natural language 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.

Answer: C

Explanation:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-how-to-review-endpoint-utterances#log-user-queries-to-enable-active-learning>

QUESTION 77

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

Answer: A

Explanation:

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

QUESTION 78

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

Answer: CE

Explanation:

<https://github.com/MicrosoftDocs/bot-docs/blob/live/articles/bot-service-quickstart-registration.md>

QUESTION 79

Hotspot Question

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

```

var audioFormat = 

|                                       |
|---------------------------------------|
| AudioConfig.SetProperty               |
| AudioStreamFormat.GetCompressedFormat |
| AudioStreamFormat.GetWaveFormatPCM    |
| PullAudioInputStream                  |



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

|                   |
|-------------------|
| KeywordRecognizer |
| SpeakerRecognizer |
| SpeechRecognizer  |
| SpeechSynthesizer |


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

```

Answer:

Answer Area

```

var audioFormat = 

|                                       |
|---------------------------------------|
| AudioConfig.SetProperty               |
| AudioStreamFormat.GetCompressedFormat |
| AudioStreamFormat.GetWaveFormatPCM    |
| PullAudioInputStream                  |



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

|                   |
|-------------------|
| KeywordRecognizer |
| SpeakerRecognizer |
| SpeechRecognizer  |
| SpeechSynthesizer |


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

```

Explanation:

<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>

QUESTION 80

Hotspot Question

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.

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:

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	

Explanation:

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

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<https://www.braindump2go.com/ai-102.html>

QUESTION 81

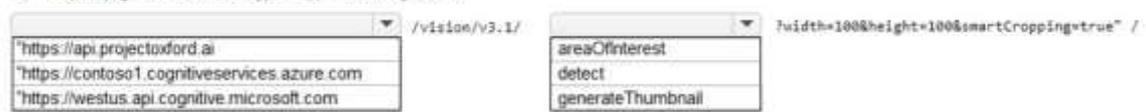
Hotspot Question

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.

Answer Area

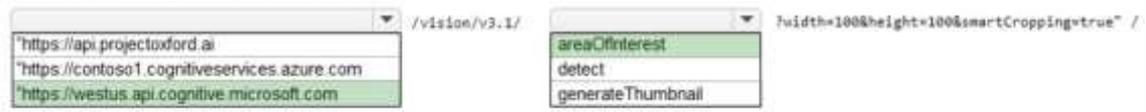
```
curl -H "Ocp-Apim-Subscription-Key: xxx" /
-o "sample.png" -H "Content-Type: application/json" /
/vision/v3.1/
?width=100&height=100&smartCropping=true" /
-d "{\url": "https://upload.litwareinc.org/litware/bicycle.jpg"}"
```



Answer:

Answer Area

```
curl -H "Ocp-Apim-Subscription-Key: xxx" /
-o "sample.png" -H "Content-Type: application/json" /
/vision/v3.1/
?width=100&height=100&smartCropping=true" /
-d "{\url": "https://upload.litwareinc.org/litware/bicycle.jpg"}"
```



Explanation:

<https://westus.dev.cognitive.microsoft.com/docs/services/computer-vision-v3-2/operations/56f91f2e778daf14a499f21bhttps://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-generating-thumbnails#examples>

QUESTION 82

Drag and Drop Question

You are developing a webpage that will use the Video Indexer service to display videos of internal company meetings. You embed the Player widget and the Cognitive Insights widget into the page.

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

- Ensure that users can search for keywords.
- Display the names and faces of people in the video.
- Show captions in the video in English (United States).

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

NOTE: Each correct selection is worth one point.



Answer:

Values	Answer Area
en-US	Cognitive Insights Widget https://www.videoindexer.ai/embed/insights/<accountId>/<videoId>/?widgets= people,keywords controls= Value
false	
people,search	Player Widget https://www.videoindexer.ai/embed/player/<accountId>/<videoId>/? showcaptions= true captions= Value
search	

Explanation:

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

QUESTION 83

Drag and Drop Question

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.

Actions	Answer Area
Change the model domain.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> ⬅ ➡ </div> <div style="text-align: center;"> ⬆ ⬇ </div> </div>
Retrain the model.	
Test the model.	
Export the model.	

Answer:

Actions	Answer Area	
Export the model.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> ⬅ ➡ </div> <div style="text-align: center;"> ⬆ ⬇ </div> </div>	
		Change the model domain.
		Retrain the model.
	Test the model.	

Explanation:

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