AI-102$^{Q\&As}$

Designing and Implementing a Microsoft Azure AI Solution

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QUESTION 1

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.

Correct Answer: C

QUESTION 2

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

Correct Answer: A

https://learn.microsoft.com/en-us/azure/bot-service/bot-builder-concept-dialog?view=azure-bot-service-4.0#dialog-types
The dialogs library provides a few types of dialogs to make your bot\\'s conversations easier to manage.

-prompt dialogs

Ask the user for input and return the result. A prompt will repeat until it gets valid input or it\\'s canceled. They\\'re designed to work with waterfall dialogs.

QUESTION 3

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.

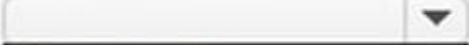NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
user=User1
bot=watchbot
user: I want a new watch.

bot: [          [ ▼ ]  ][Delay=3000]
        Attachment
        ConversationUpdate
        Typing

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.                adaptivecard
bot: Sure, you are most welcome!              carousel
                                              list
```
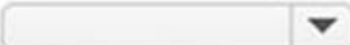
Correct Answer:
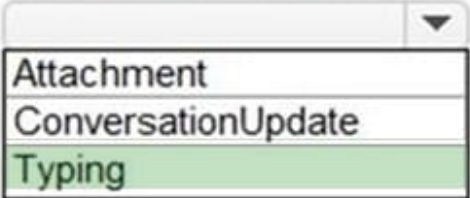
Answer Area

```
user=User1
bot=watchbot
user: I want a new watch.
```

bot: [[▼]][Delay=3000]

| Attachment |
| ConversationUpdate |
| **Typing** |

```
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!
```

[▼]]

| **adaptivecard** |
| carousel |
| list |

Reference: https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-add-media-attachments?view=azure-bot-service-4.0andtabs=csharp

QUESTION 4

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. Content Moderator

B. Form Recognizer

C. Computer Vision

D. Language service

Correct Answer: D

QUESTION 5

You need to measure the public perception of your brand on social media messages. Which Azure Cognitive Services service should you use?

A. Text Analytics

B. Content Moderator

C. Computer Vision

D. Form Recognizer

Correct Answer: A

Text Analytics Cognitive Service could be used to quickly determine the public perception for a specific topic, event or brand.

Example: A NodeJS app which pulls Tweets from Twitter using the Twitter API based on a specified search term. Then pass these onto Text Analytics for sentiment scoring before storing the data and building a visualisation in PowerBI. The Architecture looked something like this:

Reference: https://www.linkedin.com/pulse/measuring-public-perception-azure-cognitive-services- steve-dalai
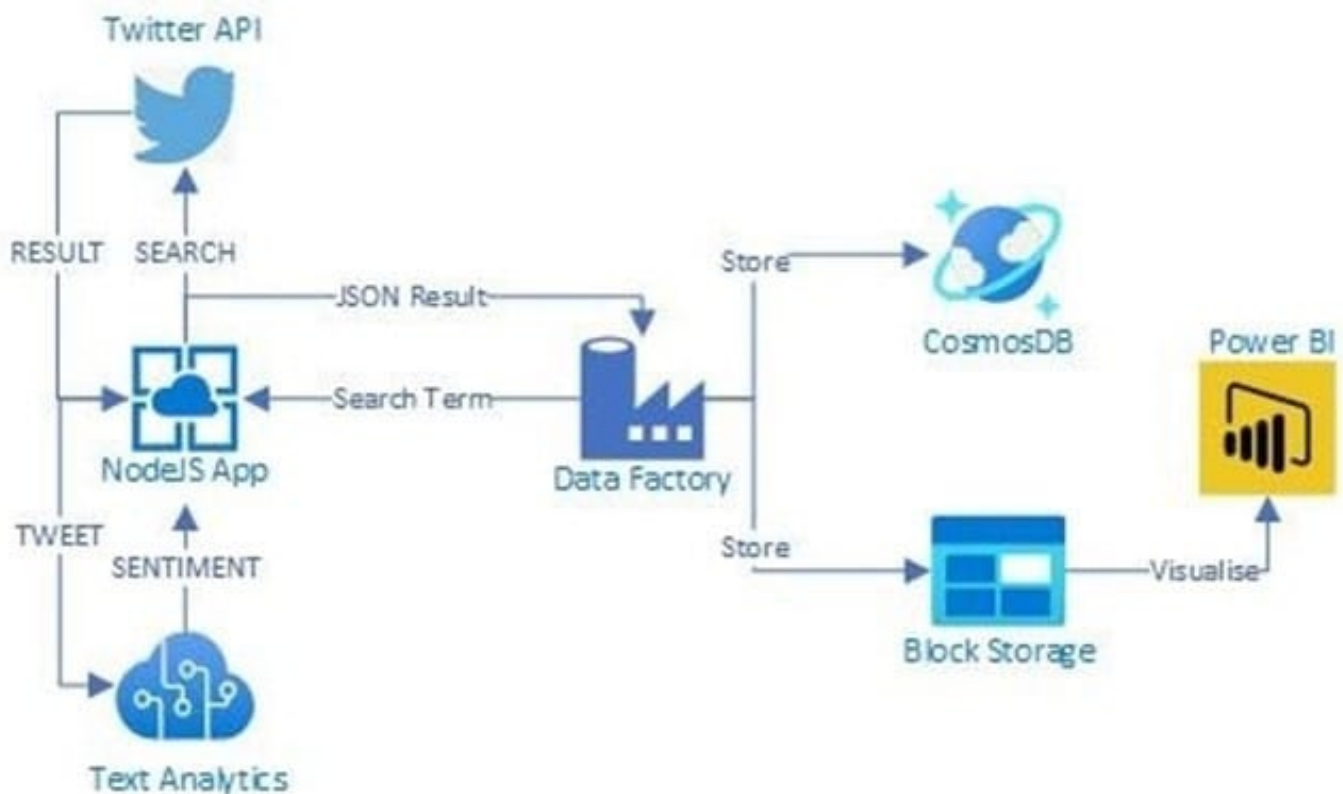
QUESTION 6

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?

A. Yes

B. No

Correct Answer: A

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.

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

QUESTION 7

You need to create a visualization of running sales totals per quarter as shown in the following exhibit.

What should you create in Cower Bl Desktop;1

A. a waterfall chart

B. a ribbon chart

C. a bar chart

D. a decomposition tree

Correct Answer: C

QUESTION 8

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. (Choose three.)

Select and Place:

Actions

| 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. |

Answer Area

Correct Answer:

Actions

| Add prebuilt domain models as required. |
| |
| Migrate authoring to an Azure resource authoring key. |
| |
| Enable log collection by using Log Analytics. |

Answer Area

| Enable active learning. |
| Validate the utterances logged for review and modify the model. |
| Train and republish the Language Understanding model. |

-enable active learning

-validate the utterances

-train and republish

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

QUESTION 9

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.

Correct Answer: B

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

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

service.

What is translated?

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

List of .lu files under a specific path.

Reference:

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

QUESTION 10

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

Correct Answer: CD

QUESTION 11

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. (Choose two.)

NOTE: Each correct selection is worth one point.

A. transparency

B. fairness

C. inclusiveness

D. reliability and safety

E. privacy and security

Correct Answer: BC

https://docs.microsoft.com/en-us/learn/modules/get-started-ai-fundamentals/8-understand-responsible-ai

QUESTION 12

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. botld

B. tenancld

C. appld

D. objeccld

E. appSecrec

Correct Answer: CE

Reference:

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

QUESTION 13

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 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

Correct Answer: B

The model needs to be extended and retrained.

QUESTION 14

HOTSPOT

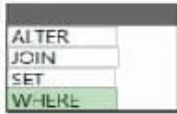Select the answer that correctly completes the sentence.

Hot Area:

The [ALTER / JOIN / SET / WHERE] clause can be used in Data Manipulation Language (DML) statements to specify the criteria that rows must match.

Correct Answer:

The [ALTER / JOIN / SET / WHERE] clause can be used in Data Manipulation Language (DML) statements to specify the criteria that rows must match.

QUESTION 15

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.

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