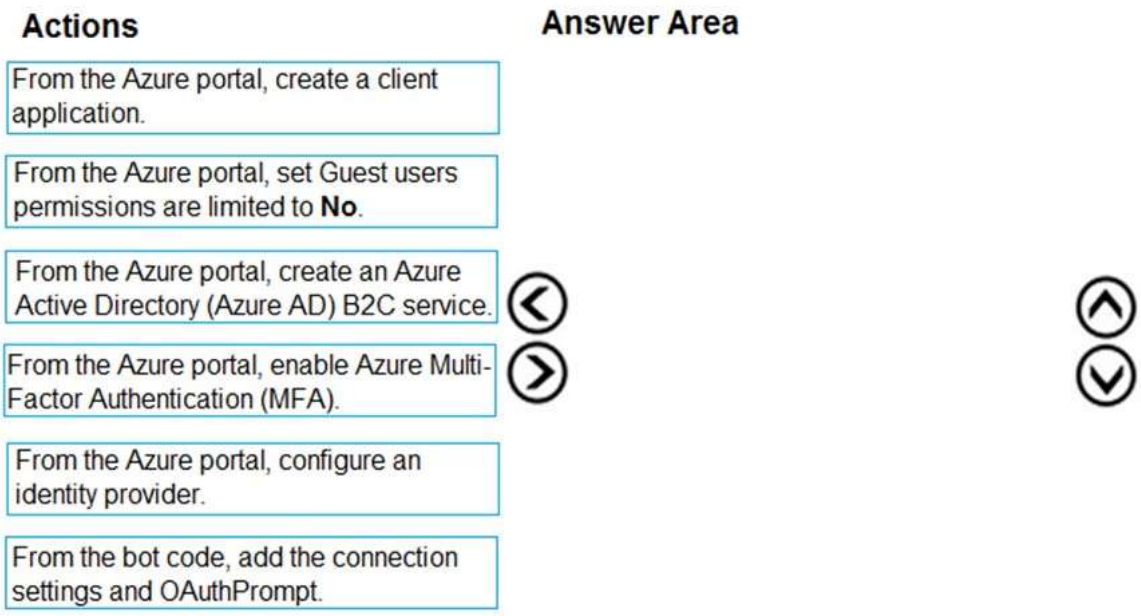
QUESTION 121
You plan to deploy a global healthcare app named App1 to Azure.
App1 will use Azure Cognitive Services APIs. Users in Germany, Canada, and the United States will connect to App1.
You need to recommend an app deployment solution to ensure that all the personal data of the users remain in their country or origin only.
Which three Azure services should you recommend deploying to each Azure region? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

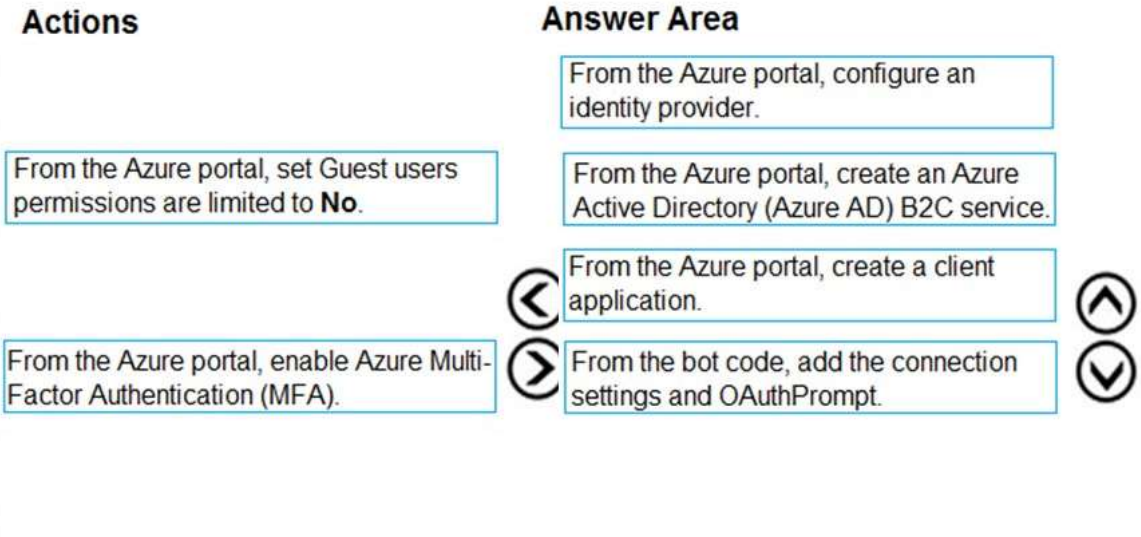
A. Azure Key Vault
B. Azure Traffic Manager
C. Azure Kubernetes Service (AKS)
D. App1
E. the Cognitive Services resources
F. an Azure Storage resource

Answer: ADF
Explanation:
https://github.com/microsoft/computerscience/blob/master/Labs/Azure%20Services/Azure%20Storage/Azure%20Storage%20and%20Cognitive%20Services%20(MVC).md

QUESTION 122
Drag and Drop Question
You need to create a bot to meet the following requirements:
- The bot must support multiple bot channels including Direct Line.
- Users must be able to sign in to the bot by using a Gmail user account and save activities and preferences.
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.



Answer:



Explanation:

Step 1: From the Azure portal, configure an identity provider. The Azure Bot Service and the v4 SDK include new bot authentication capabilities, providing features to make it easier to develop a bot that authenticates users to various identity providers, such as Azure AD (Azure Active Directory), GitHub, Uber, and so on.

Step 2: From the Azure portal, create an Azure Active Directory (Azure AD) B2C service. Azure Active Directory B2C provides business-to-customer identity as a service. Your customers use their preferred social, enterprise, or local account identities to get single sign-on access to your applications and APIs.

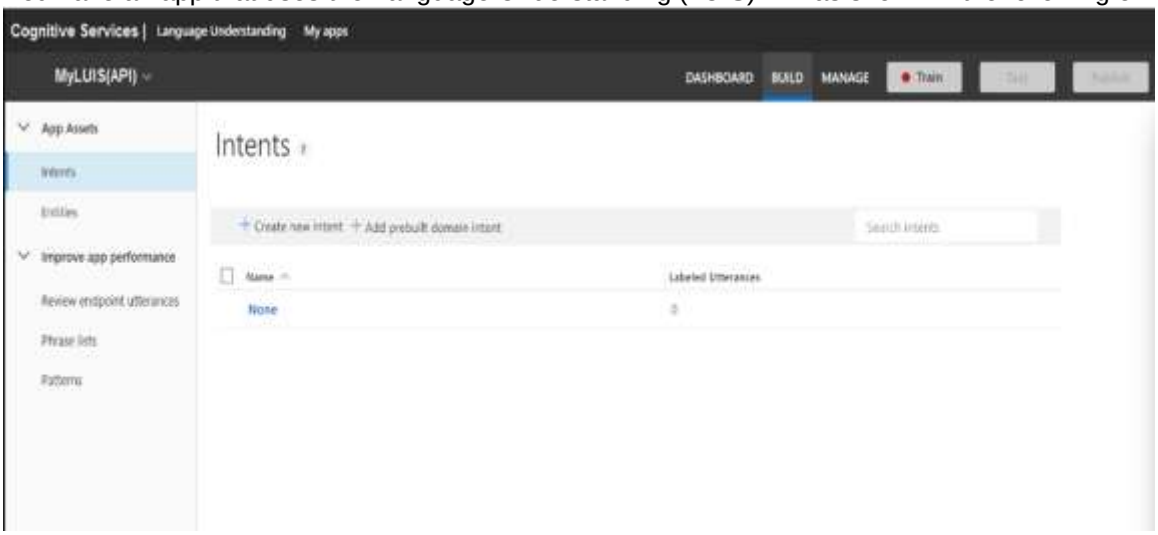
Step 3: From the Azure portal, create a client application You can enable communication between your bot and your own client application by using the Direct Line API.

Step 4: From the bot code, add the connection settings and OAuthPrompt Use an OAuth prompt to sign the user in and get a token. Azure AD B2C uses standards-based authentication protocols including OpenID Connect, OAuth 2.0, and SAML.

References:

https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-authentication?view=azure-bot-service-4.0

QUESTION 123
Hotspot Question
You have an app that uses the Language Understanding (LUIS) API 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

To publish the app, you must first **[answer choice]** the app.
- test
- train
- create utterances in

You can add utterances to the model by **[answer choice]**.
- creating intents
- testing the model
- training the model

The app was **[answer choice]**.
- never published
- already published
- published but never accessed by users

Answer:

Answer Area

To publish the app, you must first **[answer choice]** the app.

- test
- train
- create utterances in

You can add utterances to the model by **[answer choice]**.

- creating intents
- testing the model
- training the model

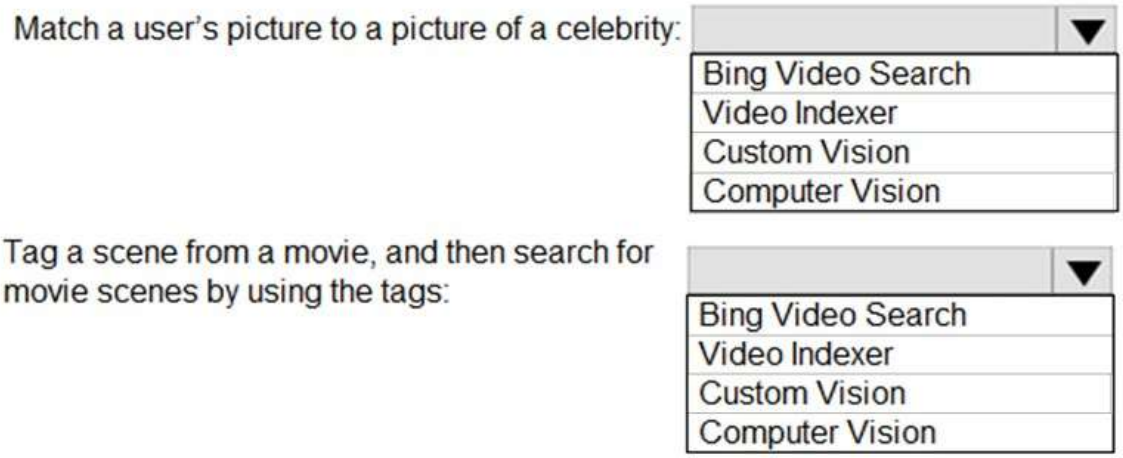
The app was **[answer choice]**.

- never published
- already published
- published but never accessed by users

Explanation:
Box 1: train
Utterances are input from the user that your app needs to interpret. To train LUIS to extract intents and entities from them, it's important to capture a variety of different example utterances for each intent. Active learning, or the process of continuing to train on new utterances, is essential to machine-learned intelligence that LUIS provides.
Box 2: creating intents
Each intent needs to have example utterances, at least 15. If you have an intent that does not have any example utterances, you will not be able to train LUIS. If you have an intent with one or very few example utterances, LUIS will not accurately predict the intent.
Box 3: never published
In each iteration of the model, do not add a large quantity of utterances. Add utterances in quantities of 15.
Train, publish, and test again.
References:
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-utteran3ce

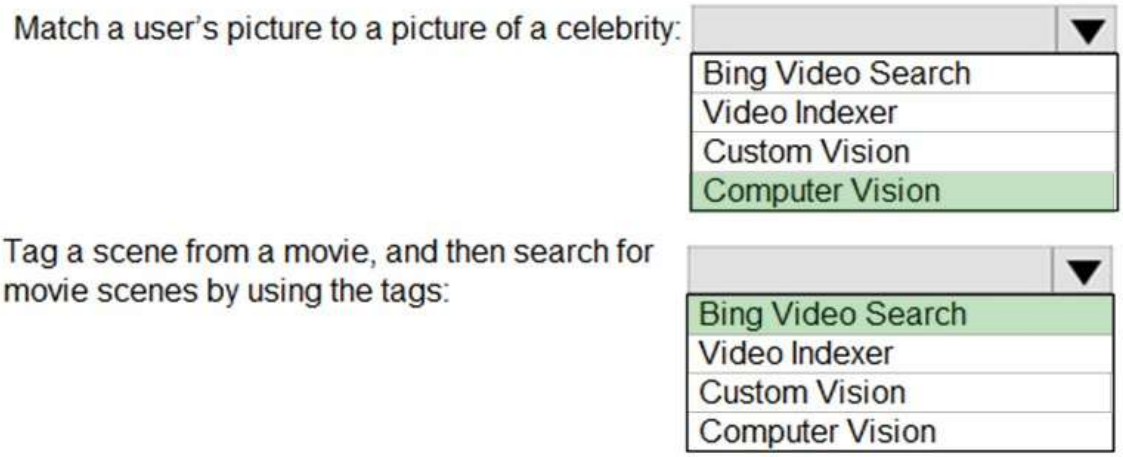
QUESTION 124
Hotspot Question
Your company plans to build an app that will perform the following tasks:
- Match a user's picture to a picture of a celebrity.
- Tag a scene from a movie, and then search for movie scenes by using the tags.
You need to recommend which Azure Cognitive Services APIs must be used to perform the tasks.
Which Cognitive Services API 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



Answer:

Answer Area



Explanation:

Box 1: Computer Vision

Azure's Computer Vision service provides developers with access to advanced algorithms that process images and return information.

Computer Vision Detect Faces: Detect faces in an image and provide information about each detected face. Computer Vision returns the coordinates, rectangle, gender, and age for each detected face. Computer Vision provides a subset of the Face service functionality. You can use the Face service for more detailed analysis, such as facial identification and pose detection.

Box 2: Bing Video Search

Search for videos and get comprehensive results

With Bing Video Search API v7, find videos across the web. Results provide useful metadata including creator, encoding format, video length, view count, improved & simplified paging, and more.

Incorrect Answers:

Video Indexer:

Automatically extract metadata--such as spoken words, written text, faces, speakers, celebrities, emotions, topics, brands, and scenes--from video and audio files.

Custom Vision:

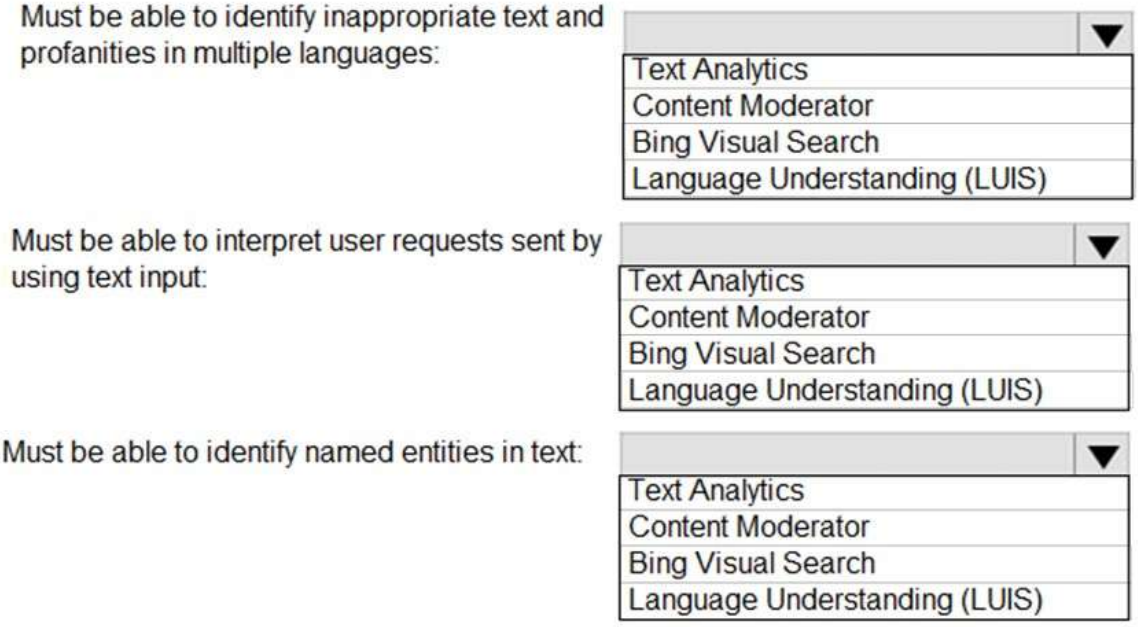
Easily customize your own state-of-the-art computer vision models for your unique use case. Just upload a few labeled

images and let Custom Vision Service do the hard work. With just one click, you can export trained models to be run on device or as Docker containers.
References:
https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/home
https://azure.microsoft.com/en-us/services/cognitive-services/bing-video-search-api/

QUESTION 125
Hotspot Question
Your company plans to deploy several apps that will use Azure Cognitive Services APIs.
You need to recommend which Cognitive Services APIs must be used to meet the following requirements:
- Must be able to identify inappropriate text and profanities in multiple languages.
- Must be able to interpret user requests sent by using text input.
- Must be able to identify named entities in text.

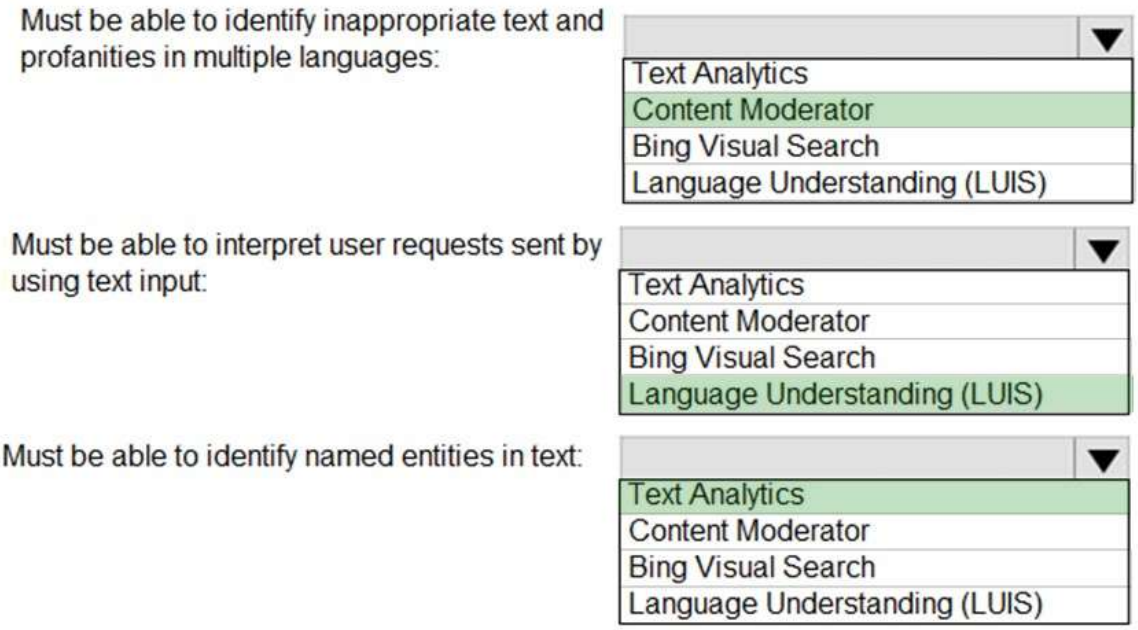
Which API should you recommend for each requirement? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area



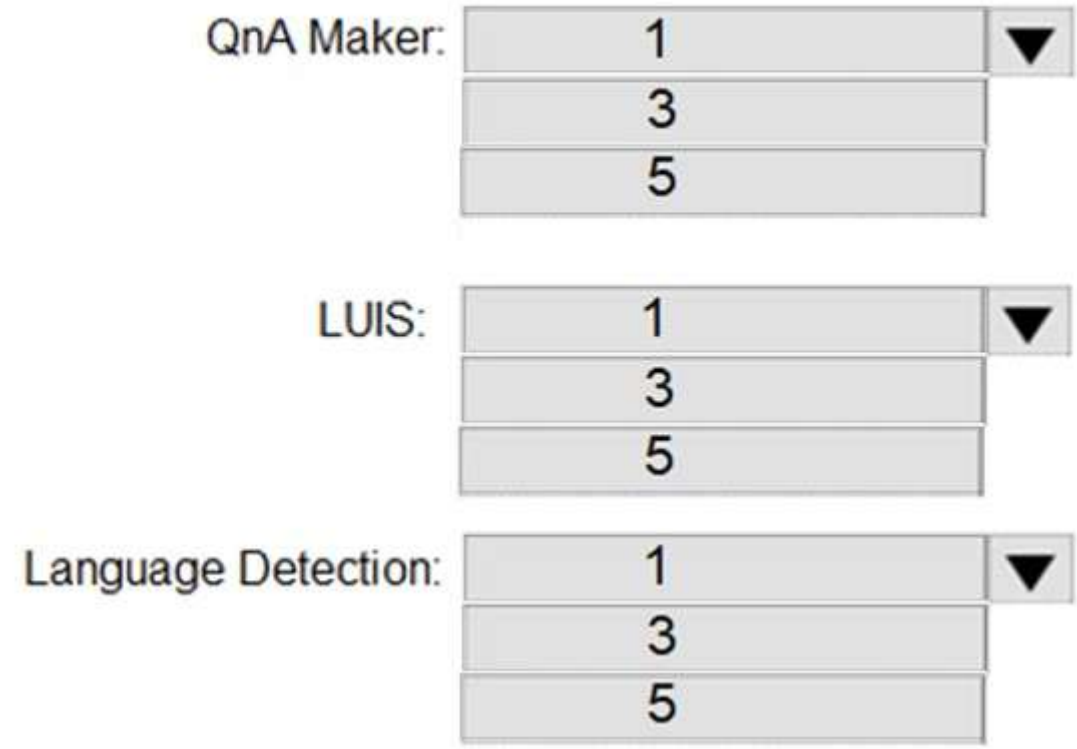
Answer:

Answer Area

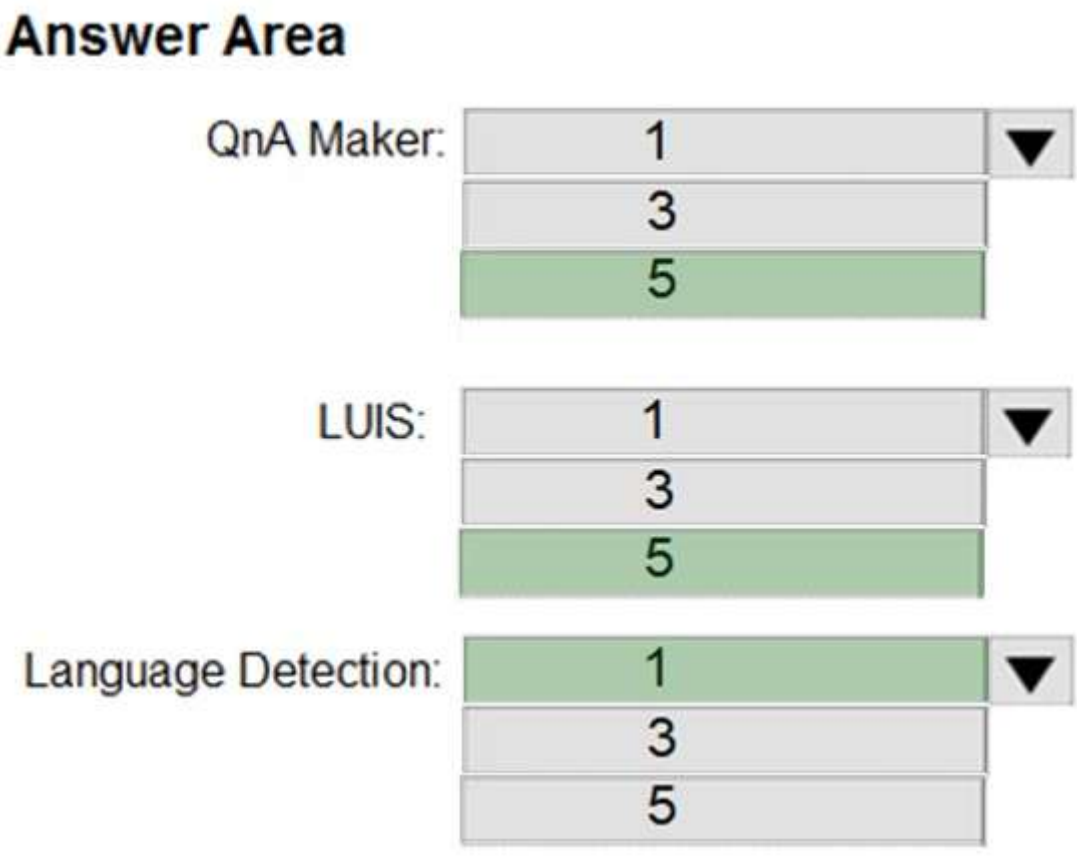


Explanation:
Box 1: Content Moderator
The Azure Content Moderator API is a cognitive service that checks text, image, and video content for material that is potentially offensive, risky, or otherwise undesirable. When such material is found, the service applies appropriate labels (flags) to the content. Your app can then handle flagged content in order to comply with regulations or maintain the intended environment for users.
Box 2: Language Understanding (LUIS)
Designed to identify valuable information in conversations, LUIS interprets user goals (intents) and distills valuable information from sentences (entities), for a high quality, nuanced language model. LUIS integrates seamlessly with the Azure Bot Service, making it easy to create a sophisticated bot.
Box 3: Text Analytics
The Text Analytics API is a cloud-based service that provides advanced natural language processing over raw text, and includes four main functions: sentiment analysis, key phrase extraction, named entity recognition, and language detection.
References:
https://docs.microsoft.com/bs-latn-ba/azure/cognitive-services/content-moderator/overview
https://www.luis.ai/home
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/

QUESTION 126
Hotspot Question
You plan to create a bot that will support five languages. The bot will be used by users located in three different countries. The bot will answer common customer questions. The bot will use Language Understanding (LUIS) to identify which skill to use and to detect the language of the customer.
You need to identify the minimum number of Azure resources that must be created for the planned bot.
How many QnA Maker, LUIS and Language Detection instances should you create? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

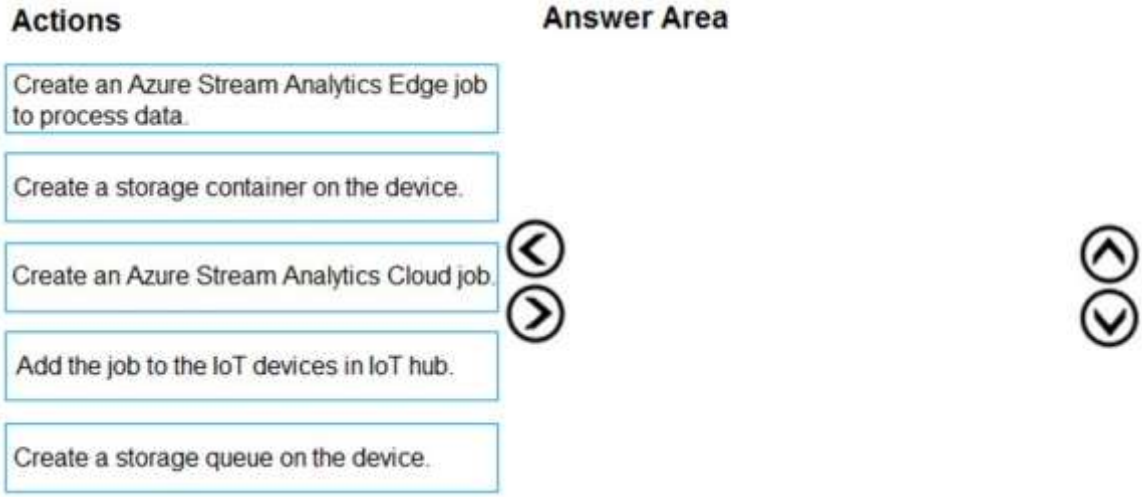

Answer Area
QnA Maker:
1
3
5
LUIS:
1
3
5
Language Detection:
1
3
5

Answer:

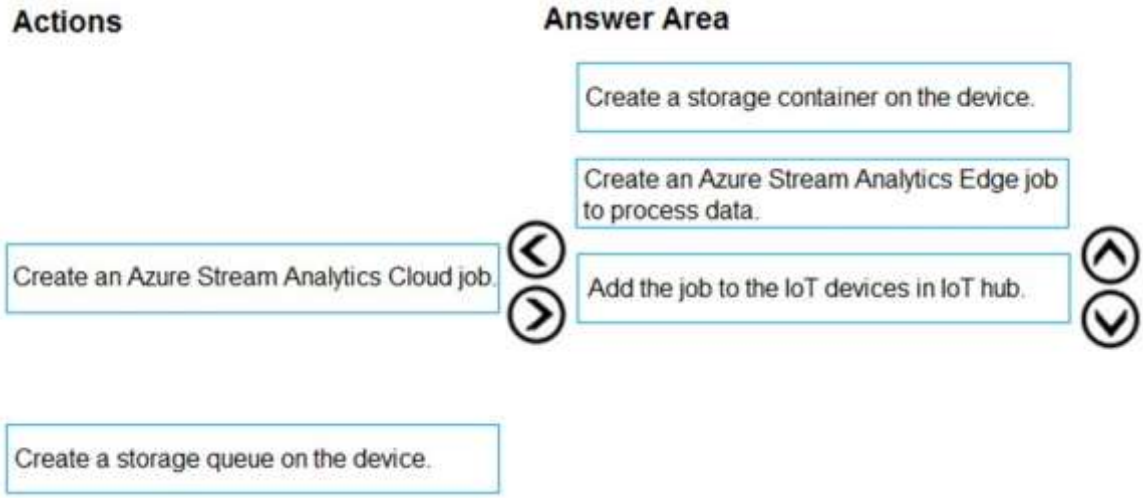

Answer Area
QnA Maker:
1
3
5
LUIS:
1
3
5
Language Detection:
1
3
5

Explanation:
QnA Maker: 5
If the user plans to support multiple languages, they need to have a new QnA Maker resource for each language.
LUIS: 5
If you need a multi-language LUIS client application such as a chatbot, you have a few options. If LUIS supports all the languages, you develop a LUIS app for each language. Each LUIS app has a unique app ID, and endpoint log. If you need to provide language understanding for a language LUIS does not support, you can use Microsoft Translator API to translate the utterance into a supported language, submit the utterance to the LUIS endpoint, and receive the resulting scores.
Language detection: 1
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.
This capability is useful for content stores that collect arbitrary text, where language is unknown. You can parse the results of this analysis to determine which language is used in the input document. The response also returns a score that reflects the confidence of the model. The score value is between 0 and 1.
The Language Detection feature can detect a wide range of languages, variants, dialects, and some regional or cultural languages. The exact list of languages for this feature isn't published.
References:
https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/overview/language-support
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-language-support
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-language-detection

QUESTION 127
Drag and Drop Question
You are designing an AI solution that will use IoT devices to gather data from conference attendees and then analyze the data. The IoT device will connect to an Azure IoT hub.
You need to ensure that data contains no personally identifiable information before it is sent to the IoT hub.
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.



Answer:



Explanation:
Note:
ASA Edge jobs run in containers deployed to Azure IoT Edge devices. They are composed of two parts:
1. A cloud part that is responsible for job definition: users define inputs, output, query, and other settings (out of order events, etc.) in the cloud.
2. A module running on your IoT devices. It contains the ASA engine and receives the job definition from the cloud.
References:
https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-edge

QUESTION 128
You need to meet the testing requirements for the data scientists.
Which three actions should you perform? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

A. Deploy an Azure Kubernetes Service (AKS) cluster to the East US 2 region
B. Get the docker image from mcr.microsoft.com/azure-cognitive-services/sentiment:latest
C. Deploy an Azure an Azure Container Service cluster to the West Europe region
D. Export the production version of the Language Understanding (LUIS) app
E. Deploy a Kubernetes cluster to Azure Stack
F. Get the docker image from mcr.microsoft.com/azure-cognitive-services/luis:latest
G. Export the staging version of the Language and Understanding (LUIS) app

Answer: EFG
Explanation:
Scenario: Data scientists must test Butler by using ASDK.
Note: Contoso wants to provide a new version of the Bookings app that will provide a highly available, reliable service for booking travel packages by interacting with a chatbot named Butler.
E: The ASDK (Azure Stack Development Kit) is meant to provide an environment in which you can evaluate Azure Stack and develop modern applications using APIs and tooling consistent with Azure in a non-production environment. Microsoft Azure Stack integrated systems range in size from 4-16 nodes, and are jointly supported by a hardware partner and Microsoft.
F: The Language Understanding (LUIS) container loads your trained or published Language Understanding model, also known as a LUIS app, into a docker container and provides access to the query predictions from the container's API endpoints.
Use the docker pull command to download a container image from the mcr.microsoft.com/azure-cognitive- services/luis repository:
docker pull mcr.microsoft.com/azure-cognitive-services/luis:latest
G: You can test using the endpoint with a maximum of two versions of your app. With your main or live version of your app set as the production endpoint, add a second version to the staging endpoint.
Reference:

https://docs.microsoft.com/en-us/azure-stack/asdk/asdk-what-is https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-container-howto https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-test

QUESTION 129
You need to meet the greeting requirements for Butler.
Which type of authentication should you use?

A. AdaptiveCard
B. SigninCard
C. CardCarousel
D. HeroCard

Answer: D
Explanation:
Scenario: Butler must greet users by name when they first connect.
HeroCard defines a card with a large image, title, text, and action buttons.
Incorrect Answers:
B: SigninCard defines a card that lets a user sign in to a service.
References:
https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-send-welcome-message

QUESTION 130
Your company has several AI solutions and bots.
You need to implement a solution to monitor the utilization of the bots. The solution must ensure that analysts at the company can generate dashboards to review the utilization.
What should you include in the solution?

A. Azure Application Insights
B. Azure Data Explorer
C. Azure Logic Apps
D. Azure Monitor

Answer: A
Explanation:
Bot Analytics.
Analytics is an extension of Application Insights. Application Insights provides service-level and instrumentation data like traffic, latency, and integrations. Analytics provides conversation-level reporting on user, message, and channel data.
References:
https://docs.microsoft.com/en-us/azure/bot-service/bot-service-manage-analytics

QUESTION 131
Your plan to design a bot that will be hosted by using Azure Bot Service.
Your company identifies the following compliance requirements for the bot:
- Payment Card Industry Data Security Standards (PCI DSS)
- General Data Protection Regulation (GDPR)
- ISO 27001

You need to identify which compliance requirements are met by hosting the bot in the bot service.
What should you identify?

A. PCI DSS only
B. PCI DSS, ISO 27001, and GDPR
C. ISO 27001 only
D. GDPR only

Answer: B

Explanation:
Azure Bot service is compliant with ISO 27001:2013, ISO 27019:2014, SOC 1 and 2, Payment Card Industry Data Security Standard (PCI DSS), and Health Insurance Portability and Accountability Act Business Associate Agreement (HIPAA BAA).
Microsoft products and services, including Azure Bot Service, are available today to help you meet the GDPR requirements.
References:
https://docs.microsoft.com/en-us/azure/bot-service/bot-service-compliance
https://blog.botframework.com/2018/04/23/general-data-protection-regulation-gdpr/