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Designing and Implementing a Microsoft Azure AI Solution

Microsoft AI-102

Version Demo

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Topic Break Down

Topic	No. of Questions
Topic 2, New Update	183
Topic 3, Case Study 1	2
Topic 4, Case Study 2	2
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Topic 8, Mixed Questions	99
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QUESTION NO: 1

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:

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

QUESTION NO: 2 - (HOTSPOT)

Select the answer that correctly completes the sentence.

Answer Area

In an infrastructure as a service (IaaS) instance of Microsoft SQL Server on Azure, you manage the [ ] that hosts SQL Server.

- elastic pool
- MySQL server
- PostgreSQL server
- virtual machine

ANSWER:

Answer Area

In an infrastructure as a service (IaaS) instance of Microsoft SQL Server on Azure, you manage the [ ] that hosts SQL Server.

- elastic pool
- MySQL server
- PostgreSQL server
- virtual machine

Explanation:

Answer Area

In an infrastructure as a service (IaaS) instance of Microsoft SQL Server on Azure, you manage the [virtual machine ▼] that hosts SQL Server.

QUESTION NO: 3

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

ANSWER: C

Explanation:

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

QUESTION NO: 4

You have the following C# method for creating Azure Cognitive Services resources programmatically.

```
static void create_resource(CognitiveServicesManagementClient client, 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 = client.Accounts.Create(resource_group_name, account_tier,
parameters);
}
```

You need to call the method to create a free Azure resource in the West US Azure region. The resource will be used to generate captions of images automatically.

Which code should you use?

A. create_resource(client, "res1", "ComputerVision", "F0", "westus")

B. create_resource(client, "res1", "CustomVision.Prediction", "F0", "westus")

C. create_resource(client, "res1", "ComputerVision", "S0", "westus")

D. create_resource(client, "res1", "CustomVision.Prediction", "S0", "westus")

ANSWER: B

Explanation:

Many of the Cognitive Services have a free tier you can use to try the service. To use the free tier, use F0 as the SKU for your resource.

There are two tiers of keys for the Custom Vision service. You can sign up for a F0 (free) or S0 (standard) subscription through the Azure portal.

Incorrect Answers:

A: There is no free tier (F0) for ComputerVision.

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/cognitive-services-apis-create-account-client-library?pivots=programming-language-csharp https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/limits-and-quotas

QUESTION NO: 5

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.

ANSWER: A

Explanation:

Regenerate admin keys.

Two admin keys are created for each service so that you can rotate a primary key, using the secondary key for business continuity.

1. In the Settings >Keys page, copy the secondary key.

2. For all applications, update the API key settings to use the secondary key.

3. Regenerate the primary key.

4. Update all applications to use the new primary key.

Note: Two admin api-keys, referred to as primary and secondary keys in the portal, are automatically generated when the service is created and can be individually regenerated on demand. Having two keys allows you to roll over one key while using the second key for continued access to the service.

Reference: https://docs.microsoft.com/en-us/azure/search/search-security-api-keys#regenerate-admin-keys

QUESTION NO: 6

You are building a Conversational Language Understanding model.

You need to ensure that the model will support the following sample utterances:

• Set all the lights to on.

• Turn off the lights in the living room.

• What is the current thermostat temperature?

• Lower the temperature of the thermostat by five degrees.

Which three elements should you add to the model?

Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. a location Intent

B. a change setting entity

C. a device intent

D. a change setting intent

E. a query setting intent

F. a device entity

ANSWER: B C F

QUESTION NO: 7 - (HOTSPOT)

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
Platform as a service (PaaS) database offerings in Azure require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.	○	○
Platform as a service (PaaS) database offerings in Azure provide end users with the ability to control and update the operating system version.	○	○
All relational and non-relational platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	○	○

ANSWER:

Answer Area

Statements	Yes	No
Platform as a service (PaaS) database offerings in Azure require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.	○	○
Platform as a service (PaaS) database offerings in Azure provide end users with the ability to control and update the operating system version.	○	○
All relational and non-relational platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	○	○

Explanation:

Answer Area

Statements	Yes	No
Platform as a service (PaaS) database offerings in Azure require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.	●	○
Platform as a service (PaaS) database offerings in Azure provide end users with the ability to control and update the operating system version.	○	●
All relational and non-relational platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	○	●

QUESTION NO: 8 - (DRAG DROP)

DRAG DROP

You have a chatbot that uses a QnA Maker application.

You enable active learning for the knowledge base used by the QnA Maker application.

You need to integrate user input into the model.

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.

Select and Place:

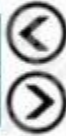| Actions	Answer Area
Add a task to the Azure resource.	
Approve and reject suggestions.	
Publish the knowledge base.	
Modify the automation task logic app to run an Azure Resource Manager template that creates the Azure Cognitive Services resource.	
For the knowledge base, select Show active learning suggestions.	
Save and train the knowledge base.	
Select the properties of the Azure Cognitive Services resource.	

ANSWER:

Actions

Add a task to the Azure resource.

Modify the automation task logic app to run an Azure Resource Manager template that creates the Azure Cognitive Services resource.

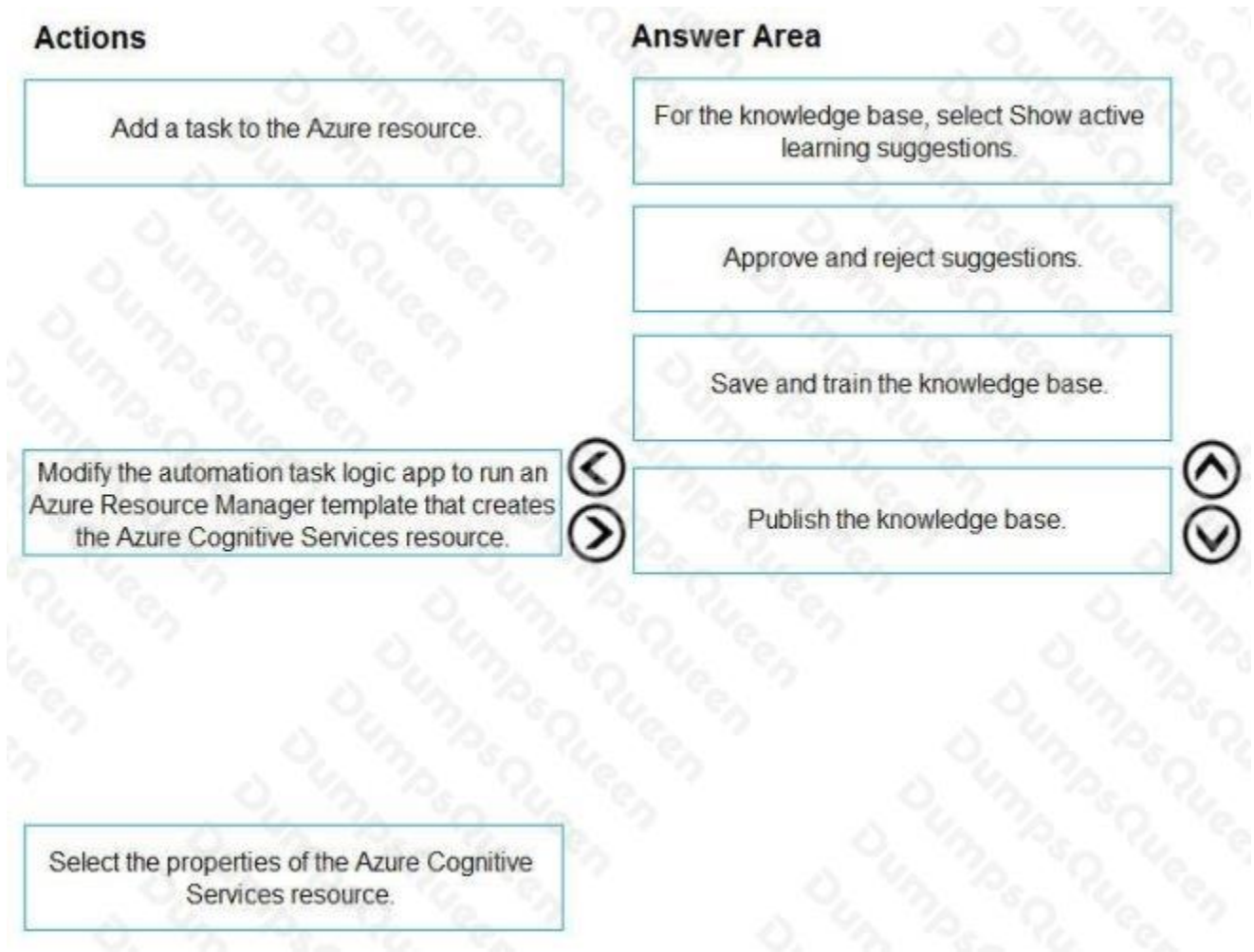| |
|---|
| Select the properties of the Azure Cognitive Services resource. |

Answer Area

For the knowledge base, select Show active learning suggestions.

Approve and reject suggestions.

Save and train the knowledge base.

Publish the knowledge base.

Explanation:

Step 1: For the knowledge base, select Show active learning suggestions.

In order to see the suggested questions, on the Edit knowledge base page, select View Options, then select Show active learning suggestions.

Step 2: Approve and reject suggestions.

Each QnA pair suggests the new question alternatives with a check mark, ✓, to accept the question or an x to reject the suggestions. Select the check mark to add the question.

Step 3: Save and train the knowledge base.

Select Save and Train to save the changes to the knowledge base.

Step 4: Publish the knowledge base.

Select Publish to allow the changes to be available from the GenerateAnswer API.

When 5 or more similar queries are clustered, every 30 minutes, QnA Maker suggests the alternate questions for you to accept or reject.

Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/improve-knowledge-base

QUESTION NO: 9 - (DRAG DROP)

DRAG DROP

You have a web app that uses Azure Cognitive Search.

When reviewing billing for the app, you discover much higher than expected charges. You suspect that the query key is compromised.

You need to prevent unauthorized access to the search endpoint and ensure that users only have read only access to the documents collection. The solution must minimize app downtime.

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.

Select and Place:

Actions	Answer Area
Add a new query key.	
Regenerate the secondary admin key.	
Change the app to use the secondary admin key.	
Change the app to use the new key.	
Regenerate the primary admin key.	
Delete the compromised key.	

ANSWER:

Actions	Answer Area
	Add a new query key.
Regenerate the secondary admin key.	Change the app to use the new key.
Change the app to use the secondary admin key.	Delete the compromised key.
Regenerate the primary admin key.	

Explanation:

Reference: https://docs.microsoft.com/en-us/azure/search/search-security-api-keys

QUESTION NO: 10

You have a chatbot that was built by using the Microsoft Bot Framework.

You need to debug the chatbot endpoint remotely.

Which two tools should you install on a local computer? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Fiddler

B. Bot Framework Composer

C. Bot Framework Emulator

D. Bot Framework CLI

E. ngrok

F. nginx

ANSWER: C E

Explanation:

Bot Framework Emulator is a desktop application that allows bot developers to test and debug bots, either locally or remotely.

ngrok is a cross-platform application that "allows you to expose a web server running on your local machine to the internet." Essentially, what we'll be doing is using ngrok to forward messages from external channels on the web directly to our local machine to allow debugging, as opposed to the standard messaging endpoint configured in the Azure portal.

Reference: https://docs.microsoft.com/en-us/azure/bot-service/bot-service-debug-emulator

QUESTION NO: 11

You are building a multilingual chatbot.

You need to send a different answer for positive and negative messages.

Which two Text Analytics APIs should you use? Each correct answer presents part of the solution. (Choose two.)

NOTE: Each correct selection is worth one point.

A. Linked entities from a well-known knowledge base

B. Sentiment Analysis

C. Key Phrases

D. Detect Language

E. Named Entity Recognition

ANSWER: B D

Explanation:

B: The Text Analytics API's Sentiment Analysis feature provides two ways for detecting positive and negative sentiment. If you send a Sentiment Analysis request, the API will return sentiment labels (such as "negative", "neutral" and "positive") and confidence scores at the sentence and document-level.

D: 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. Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to- sentiment-analysis?tabs=version-3-1

https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to- language-detection

QUESTION NO: 12

What ate two uses of data visualization? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A. Communicate the significance of data.

B. Represent trends and patterns over time.

C. Implement machine learning to predict future values.

D. Enforce business logic across reports.

ANSWER: A B

QUESTION NO: 13

Which property of a transactional workload guarantees that each transaction is treated as a single unit that either succeeds completely or tails completely?

A. isolation

B. atomicity

C. consistency

D. durability

ANSWER: B

QUESTION NO: 14

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

• Perform anomaly detection across multiple correlated sensors

• Identify the root cause of process stops.

• 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

ANSWER: D

QUESTION NO: 15

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: A B F

Explanation:

"Customer-managed keys require an additional billable service, Azure Key Vault, which can be in a different region, but under the same subscription, as Azure Cognitive Search. Enabling CMK encryption will increase index size and degrade query performance."

same document also lists Azure Key Vault as a requirement:

https://docs.microsoft.com/en-us/azure/search/search-security-overview#data-protection