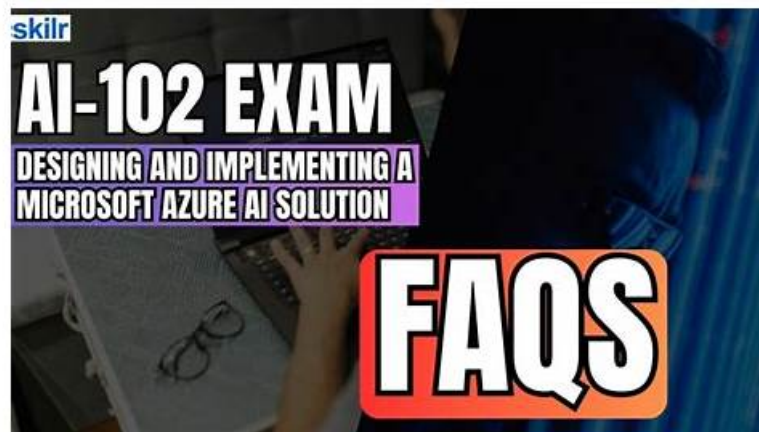


2025 Marvelous Microsoft AI-102 Valid Exam Test



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Actually, one of the most obvious advantages of our AI-102 simulating questions is their profession, which is realized by the help from our experts. We invited a large group of professional experts who dedicated in this area for more than ten years. To improve the accuracy of the AI-102 Guide preparations, they keep up with the trend closely. Every page of our AI-102 practice engine is carefully arranged by them with high efficiency and high quality.

To prepare for the AI-102 certification exam, candidates need to have a strong understanding of machine learning algorithms, data analysis and visualization, and cloud computing technologies. They also need to have a deep understanding of the Azure platform and its various services, including Azure Cognitive Services, Azure Machine Learning, and Azure Databricks.

Microsoft AI-102 is a challenging exam that requires significant preparation and experience with Azure and AI technologies. Candidates must be able to design and implement solutions that leverage Azure's powerful AI services, as well as optimize and monitor these solutions for maximum efficiency and effectiveness.

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You can use this Microsoft simulation software without an internet connection after installation. Tracking and reporting features of our Designing and Implementing a Microsoft Azure AI Solution AI-102 Practice Exam software makes it easier for you to identify and overcome mistakes. Customization feature of this format allows you to change time limits and questions numbers of mock exams.

To prepare for the Microsoft AI-102 exam, you should have a solid understanding of Azure services and machine learning concepts. You should also be familiar with programming languages such as Python and have experience using Azure Machine Learning Studio. Microsoft offers various training resources, including official instructor-led courses, self-paced online training, and hands-on labs, to help you prepare for the exam. Passing the AI-102 Exam will demonstrate your expertise in designing and implementing AI solutions on Azure, which can lead to new career opportunities and increased earning potential.

Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q145-Q150):

NEW QUESTION # 145

You have a chatbot that uses Azure OpenAI to generate responses.

You need to upload company data by using Chat playground. The solution must ensure that the chatbot uses the data to answer user questions.

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 options = new
{
    ChatCompletionsOptions()
    CompletionsOptions()
    StreamingChatCompletions()
}

Messages =
{
    new ChatMessage(ChatRole.User, "What are the differences between Azure Machine Learning and Azure AI services?"),
}

Extensions =
{
    new
    {
        AzureChatExtensionConfiguration
        AzureChatExtensionsOptions
        SearchKey = new AzureKeyCredential(searchKey),
        IndexName = searchIndex,
    }
}
```

Answer:

Explanation:

Answer Area

```
var options = new
{
    ChatCompletionsOptions()
    CompletionsOptions()
    StreamingChatCompletions()
}

Messages =
{
    new ChatMessage(ChatRole.User, "What are the differences between Azure Machine Learning and Azure AI services?"),
}

Extensions =
{
    new
    {
        AzureChatExtensionConfiguration
        AzureChatExtensionsOptions
        SearchKey = new AzureKeyCredential(searchKey),
        IndexName = searchIndex,
    }
}
```

Explanation:

```
{
    new
    {
        AzureChatExtensionsOptions
    }
}
```

NEW QUESTION # 146

You are building a social media messaging app.

You need to identify in real time the language used in messages.

Which service should you use?

- A. Azure AI Translator
- B. Azure AI Speech
- C. Azure AI Content Safety
- D. Azure AI Language

Answer: A

Explanation:

For a social media messaging app, you need real-time language identification on short text messages. The Azure AI Translator service provides a dedicated Detect API that returns the language and a confidence score for each input text, designed for low-latency scenarios such as chat and in-app communication. This aligns directly with "identify in real time the language used in messages." Microsoft Azure+2 Why the other options are not the best fit:

- * Azure AI Speech (A) targets spoken audio (speech-to-text, translation, diarization). It's not intended for detecting the language of text messages. Azure AI
- * Azure AI Content Safety (B) focuses on safety/moderation (harmful or unsafe content), not language identification.
- * Azure AI Language (D) also offers a Language Detection feature, but it's typically used within broader text analytics workflows. For real-time messaging and potential downstream translation, Translator's Detect endpoint is the targeted and streamlined choice. References (Microsoft Learn)
- * Translator - Detect method (returns detected language + confidence). Microsoft Learn
- * Translator - Product overview and real-time translation scenarios. Microsoft Azure
- * Translator - Language support (Auto Language Detection). Microsoft Learn
- * Azure AI Language - Language Detection (feature overview/how-to) for context.

NEW QUESTION # 147

You are building an app that will scan confidential documents and use the Language service to analyze the contents.

You provision an Azure Cognitive Services resource.

You need to ensure that the app can make requests to the Language service endpoint. The solution must ensure that confidential documents remain on-premises.

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.

The screenshot shows a Microsoft Learn assessment interface. On the left, under the heading "Actions", there is a list of seven actions:

- Pull an image from Docker Hub.
- Provision an on-premises Kubernetes cluster that has internet connectivity.
- Provision an Azure Kubernetes Service (AKS) resource.
- Run the container and specify an App ID and Client Secret.
- Provision an on-premises Kubernetes cluster that is isolated from the internet.
- Pull an image from the Microsoft Container Registry (MCR).
- Run the container and specify an API key and the Endpoint URL of the Cognitive Services resource.

 On the right, there is an "Answer Area" which is currently empty. Navigation arrows are visible on the right side of the interface.

Answer:

Explanation:

The screenshot shows the same Microsoft Learn assessment interface, but with three actions moved to the "Answer Area" in the correct sequence:

- Provision an on-premises Kubernetes cluster that is isolated from the internet.
- Pull an image from the Microsoft Container Registry (MCR).
- Run the container and specify an API key and the Endpoint URL of the Cognitive Services resource.

 The first two actions in the "Actions" list on the left are now crossed out with a green dashed line, indicating they are not part of the correct sequence.

Explanation:

The screenshot shows the same Microsoft Learn assessment interface, but with the "Answer Area" now containing a numbered list of three actions:

- 1 Provision an on-premises Kubernetes cluster that is isolated from the internet.
- 2 Pull an image from the Microsoft Container Registry (MCR).
- 3 Run the container and specify an API key and the Endpoint URL of the Cognitive Services resource.

 The first two actions in the "Actions" list on the left are now crossed out with a green dashed line.

You need to analyze confidential documents with the Language service while ensuring those documents never leave your premises. The supported pattern for Azure AI Services (Cognitive Services) is to run the Language service container on-premises and send the app's requests to that local container endpoint. The container performs inference locally; only metering/billing calls are sent to Azure. To achieve this:

- * Provision an on-premises Kubernetes cluster that has internet connectivity. Azure AI service containers running on-prem require outbound access to Azure for metering and billing unless you're using the special disconnected model (not implied here). Therefore, the cluster must have internet connectivity so the container can reach the Azure billing endpoint while keeping document content local.
- * Pull an image from the Microsoft Container Registry (MCR). Official Azure AI service containers (including Language) are published in MCR, not Docker Hub. You must pull the Language (Text Analytics/Language) container image from MCR.
- * Run the container and specify an API key and the Endpoint URL of the Cognitive Services resource.

When you start the container, you configure it with the API key and billing (endpoint) URL of your Azure Cognitive Services (multi-service or Language) resource. This enables the container to authenticate and report usage to Azure, while your data stays on-prem.

Why not the other options?

- * AKS would place workloads in Azure, which isn't required when the requirement is to keep documents on-prem.
- * On-prem cluster isolated from the internet would block the container's required calls to Azure's billing endpoint.
- * Pull from Docker Hub is incorrect because Azure AI service containers are published to MCR.
- * App ID and Client Secret are not the standard parameters for Azure AI service containers; they require API key + billing endpoint.
- * Use Azure AI services in containers (billing/endpoint and API key requirements, data remains local):

Microsoft Learn - Install and run containers for Azure AI services and Use containers with Azure AI services (metering and billing). <https://learn.microsoft.com/azure/ai-services/containers/>

* Language service container images on Microsoft Container Registry (MCR): Microsoft Learn - Deploy language containers (Text Analytics/Language). <https://learn.microsoft.com/azure/ai-services/language-service/how-to/use-containers>

* Networking requirements (internet connectivity for metering): Microsoft Learn - Configure containers and network access for Azure AI services containers. <https://learn.microsoft.com/azure/ai-services/containers/container-requirements-and-limits>

These documents collectively show that: (a) containers are pulled from MCR, (b) they are configured with API key + endpoint for billing, and (c) internet egress is required for metering while payload data remains on-premises.

NEW QUESTION # 148

You plan to deploy a containerized version of an Azure Cognitive Services service that will be used for text analysis.

You configure <https://contoso.cognitiveservices.azure.com> as the endpoint URI for the service, and you pull the latest version of the Text Analytics Sentiment Analysis container.

You need to run the container on an Azure virtual machine by using Docker.

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

NOTE: Each correct selection is worth one point.

```
docker run --rm -it -p 5000:5000 --memory 8g --cpus 1 \
```

http://contoso.blob.core.windows.net
https://contoso.cognitiveservices.azure.com
mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase
mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment

Eula=accept \

Billing=

http://contoso.blob.core.windows.net
https://contoso.cognitiveservices.azure.com
mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase
mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment

ApiKey=xxxxxxxxxxxxxxxxxxxxxx

Answer:

Explanation:

```
docker run --rm -it -p 5000:5000 --memory 8g --cpus 1 \
```

http://contoso.blob.core.windows.net
https://contoso.cognitiveservices.azure.com
mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase
mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment

Eula=accept \

Billing=

http://contoso.blob.core.windows.net
https://contoso.cognitiveservices.azure.com
mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase
mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment

ApiKey=xxxxxxxxxxxxxxxxxxxxxx

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-install-containers?tabs=sentiment>

NEW QUESTION # 149

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 have an Azure Cognitive Search service.

During the past 12 months, query volume steadily increased.

You discover that some search query requests to the Cognitive Search service are being throttled.

You need to reduce the likelihood that search query requests are throttled.

Solution: You enable customer-managed key (CMK) encryption.

Does this meet the goal?

- A. No
- B. Yes

Answer: A

Explanation:

Explanation

Customer-managed key (CMK) encryption does not affect throttling.

Instead, you could migrate to a Cognitive Search service that uses a higher tier.

Note: A simple fix to most throttling issues is to throw more resources at the search service (typically replicas for query-based throttling, or partitions for indexing-based throttling). However, increasing replicas or partitions adds cost, which is why it is important to know the reason why throttling is occurring at all.

Reference:

<https://docs.microsoft.com/en-us/azure/search/search-performance-analysis>

NEW QUESTION # 150

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