

Microsoft

Exam Questions AI-103

Developing AI Apps and Agents on Azure



NEW QUESTION 1

- (Topic 1)

You need to configure Agent1 to meet the security and compliance requirements. What should you use?

- A. prompt shields
- B. Personally Identifiable Information (PII) Detection
- C. self-harm content filtering
- D. violence content filtering

Answer: B

NEW QUESTION 2

- (Topic 1)

You need to configure personalized user interactions for Agent1 based on the business requirements. What should you include in the solution?

- A. guardrails
- B. memory
- C. tools
- D. instructions

Answer: B

NEW QUESTION 3

- (Topic 2)

You have a Microsoft Foundry agent that grounds responses from an Azure AI Search index containing:

? Searchable text fields for product names and product codes.

? A vector field containing embeddings for product descriptions.

You need users to query by exact product names or codes and by natural-language product descriptions.

- A. Semantic search only
- B. Hybrid search
- C. Keyword search only
- D. Vector search only

Answer: B

NEW QUESTION 4

HOTSPOT - (Topic 2)

You have a Microsoft Foundry project that contains an agent named PaymentAgent.

PaymentAgent includes a function tool that issues customer refunds by using an external API.

You are creating a workflow in YAML.

You need to ensure that the workflow pauses for human approval and continues with the

refund step only after approval is granted.

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

NOTE: Each correct selection is worth one point.

steps:

- id: propose_refund

type: agent

agent: PaymentAgent

- id: approval

type:

▼

ask_question

basic_chat

data_transformation

- id: execute_refund

type: agent

agent: PaymentAgent

condition:

▼

approval == "approved"

propose_refund.output != null

true

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

steps:

- id: propose_refund

type: agent

agent: PaymentAgent

- id: approval

type:

ask_question
basic_chat
data_transformation

- id: execute_refund

type: agent

agent: PaymentAgent

condition:

approval == "approved"
propose_refund.output != null
true

NEW QUESTION 5

- (Topic 2)

You have an Azure Speech in Foundry Tools resource that hosts a custom speech to text model deployed to a custom endpoint. An agent uses the endpoint to perform real-time speech recognition.

You are approaching the expiration date of the custom speech to text model. What is the expected behavior when the model expires?

- A. Speech recognition requests will fall back to the most recent base model for the same locale.
- B. Speech recognition requests will continue to use the expired custom model until the model is removed manually.
- C. Speech recognition requests will return a 4xx error until a new custom model is deployed.
- D. The custom model will be deleted automatically when the model expires.

Answer: A

NEW QUESTION 6

- (Topic 2)

Note: This section contains one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem. You must determine whether the solution meets the stated goals.

More than one solution in the set might solve the problem. It is also possible that none of the solutions in the set solve the problem. After you answer a question in this section, you will NOT be able to return. As a result, these questions do not appear on the Review Screen.

You have a Microsoft Foundry project that contains an agent. The agent generates summaries from retrieved policy documents.

Users report that some responses omit required regulatory clauses, even when the clauses are present in the retrieved content.

You need to improve response completeness.

Solution: You increase the value of the temperature parameter. Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 7

- (Topic 2)

You have a Microsoft Foundry project that contains a high-traffic agent. After a recent update, operational costs increase significantly. Monitoring confirms that the volume of user traffic to the agent remains unchanged. You suspect that changes to the request or response characteristics are causing the increase. You need to identify whether the additional costs are driven by the model input size, the model output size, or expanded tool usage. Which observability capability should you use?

- A. evaluation metrics
- B. token usage
- C. latency
- D. run success rate

Answer: B

NEW QUESTION 8

DRAG DROP - (Topic 2)

You have a Microsoft Foundry project that contains an agent. You need to enable long-term memory to ensure that the agent can recall user preferences across separate conversations. Stored memories must be isolated per authenticated user without the client application manually generating user IDs. How should you complete the Python code? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. NOTE: Each correct selection is worth one point.

Values

⋮ "session"

⋮ "{{ \$conversationId }}"

⋮ "{{ \$userId }}"

⋮ [mem_store_name]

⋮ [memory_tool]

⋮ MemorySearchTool("support_mem_store")

Answer Area

```
from azure.ai.projects.models import MemorySearchTool, PromptAgentDefinition

mem_store_name = "agent_mem_store"

memory_tool = MemorySearchTool(

    memory_store_name=mem_store_name,

    scope= Value ,

)

agent_def = PromptAgentDefinition(

    model="gpt-5.2",

    instructions="You are a customer support assistant.",

    tools= Value

)
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Values

⋮ "session"

⋮ "{{ \$conversationId }}"

⋮ "{{ \$userId }}"

⋮ [mem_store_name]

⋮ [memory_tool]

⋮ MemorySearchTool("support_mem_store")

Answer Area

```
from azure.ai.projects.models import MemorySearchTool, PromptAgentDefinition

mem_store_name = "agent_mem_store"

memory_tool = MemorySearchTool(

    memory_store_name=mem_store_name,

    scope= ⋮ "{{ $userId }}" ,

)

agent_def = PromptAgentDefinition(

    model="gpt-5.2",

    instructions="You are a customer support assistant.",

    tools= ⋮ [memory_tool]

)
```

NEW QUESTION 9

HOTSPOT - (Topic 2)

You have an Azure AI Search resource named Search1 that is used by multiple apps hosted in Azure. You need to secure Search1. The solution must meet the following requirements:

- Prevent access to Search1 from the internet.

• Limit the access of each app to query specific indexes.
What should you do? To answer, select the appropriate options in the answer area. NOTE: Each correct answer is worth one point.

Answer Area

To prevent access from the internet:

Configure an IP firewall.
Create a private endpoint
Use Azure roles.

To limit access to query specific indexes:

Create a private endpoint.
Use Azure roles.
User key authentication

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

To prevent access from the internet:

Configure an IP firewall.
Create a private endpoint
Use Azure roles.

To limit access to query specific indexes:

Create a private endpoint.
Use Azure roles.
User key authentication

NEW QUESTION 10

HOTSPOT - (Topic 2)

You have a Microsoft Foundry project that contains an agent. You use a GitHub Actions workflow for CI/CD. You need to configure the workflow to automatically evaluate the agent when a pull request (PR) is created and prevent branches from merging if the evaluation results do NOT meet the defined thresholds. How should you configure the workflow? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Authentication method:

A personal access token (PAT)
A user-assigned managed identity
An Azure Login action that uses OpenID Connect (OIDC)

If the evaluation results are NOT met, configure the workflow to:

Fail
Lock the target branch
Send an alert

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Authentication method:

- A personal access token (PAT)
- A user-assigned managed identity
- An Azure Login action that uses OpenID Connect (OIDC)

If the evaluation results are **NOT** met, configure the workflow to:

- Fail
- Lock the target branch
- Send an alert

NEW QUESTION 10

- (Topic 2)

You have a Microsoft Foundry project that contains an agent. The agent uses two tools to perform the following actions:

? Use Azure AI Search to retrieve answers from a private product documentation index.

? Use the web search tool to retrieve public information on the internet.

You need to ensure that for a specific run, the agent deterministically retrieves information only from the internet. To what should you set tool_choice?

- A. "required"
- B. {"type": "azure_ai_search"}
- C. "auto"
- D. {"type": "bing_grounding"}

Answer: D

NEW QUESTION 11

- (Topic 2)

You have a Microsoft Foundry project that contains a model deployment.

You have an application that calls the deployment by using the Azure OpenAI v1 API and DefaultAzureCredential.

The developers at your company receive HTTP 403 errors when they send inference requests, even after running az login.

You need to ensure that the developers can perform model inference. The solution must follow the principle of least privilege.

Which role-based access control (RBAC) role should you assign to the developers?

- A. Cognitive Services OpenAI User
- B. Cognitive Services Data Reader
- C. Cognitive Services User
- D. Contributor

Answer: A

NEW QUESTION 14

HOTSPOT - (Topic 2)

You need to recommend a plan to create a customer support agent by using the Microsoft Foundry Agent Service. The agent must meet the following requirements:

- Retain user preferences across multiple conversations.
- Enable users to provide contextual grounding by directly uploading documents during a chat.

Which Foundry capability should you recommend for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

To retain user preferences across conversations, use:

- Agent memory that uses persistent storage
- Conversation history
- Orchestration-managed session context

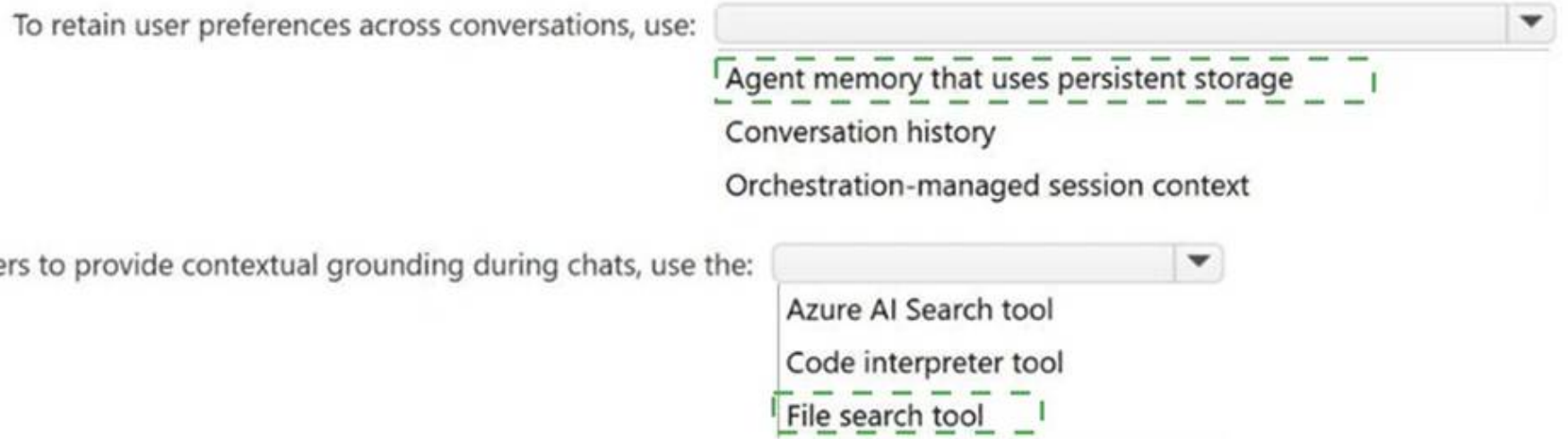
To enable users to provide contextual grounding during chats, use the:

- Azure AI Search tool
- Code interpreter tool
- File search tool

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 16

- (Topic 2)

You have a Microsoft Foundry project that contains an agent. The agent uses Azure Speech in Foundry Tools.

You fine-tune a baseline speech to text model for the en-us locale and publish the model. The agent calls the Speech to text REST API and returns an error message indicating that the project ID is invalid.

You need to set the project property to the correct ID. To what should you set the project property?

- A. the custom speech endpoint URL
- B. the project URL
- C. the project ID
- D. the custom speech project ID

Answer: D

NEW QUESTION 17

- (Topic 2)

You have a Microsoft Foundry project named Project1.

Project1 contains an application that processes PDF vendor invoices.

You need to configure Azure Document Intelligence in Foundry Tools to generate a Markdown output that preserves the sections and table structure of the PDFs. The solution must minimize development effort. What should you do?

- A. Increase the confidence threshold.
- B. Configure output=figures when you analyze the PDF.
- C. Configure content=markdown when you analyze the document.
- D. Set the output_content_format=ContentForma
- E. MARKDOWN value.

Answer: D

NEW QUESTION 21

- (Topic 2)

You have a web app named App1 that sends requests to a multimodal chat model deployment in a Microsoft Foundry project. User messages can contain both text and images. Currently, App1 includes image URLs as plain text inside the message content, so the model cannot recognize them as images. You need to send the message as a structured array that includes both the text portion and the image reference.

- A. Add the image URL to request metadata.
- B. Set the user message content array to include items with type: text and type: image_url.
- C. Place the image URL inside the system message.
- D. Include base64 data directly inside the content string.

Answer: B

NEW QUESTION 23

- (Topic 2)

You have a Microsoft Foundry project that contains an agent. The agent uses Azure AI Search for Retrieval Augmented Generation (RAG). You plan to ingest and index PDF product manuals. You need to build a solution that supports semantic similarity matching. The solution must ensure that the agent retrieves relevant data when user questions use different wording than the product manuals.

- A. vector search
- B. semantic ranking
- C. suggesters
- D. analyzers

Answer: A

NEW QUESTION 25

HOTSPOT - (Topic 2)

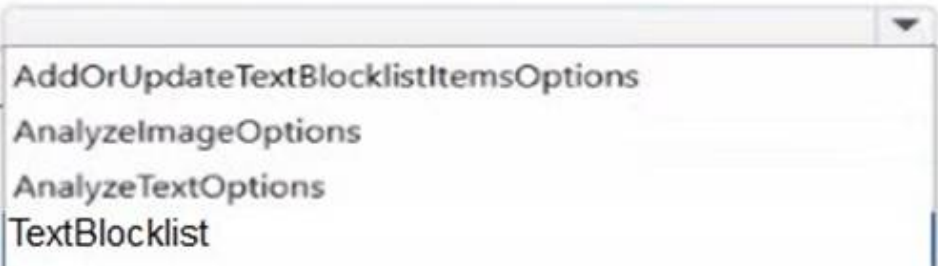
You have a configurable guardrail in a Microsoft Foundry project.

You have a Python application. A text blocklist named ConfidentialTerms already contains terms that must be detected in user messages. The application stores

each incoming user message in a variable named `input_text`.
You plan to moderate `input_text` before the text is sent to a language model. You need to analyze `input_text` by using the existing blocklist.

Answer Area

```
...
blocklist_name = "ConfidentialTerms"
client = ContentSafetyClient(endpoint, credential)
request =
    text=input_text
    ...
```



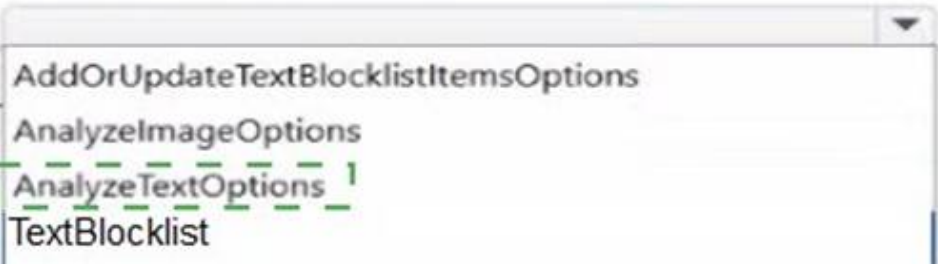
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
...
blocklist_name = "ConfidentialTerms"
client = ContentSafetyClient(endpoint, credential)
request =
    text=input_text
    ...
```



NEW QUESTION 27

- (Topic 2)

You are building a speech processing solution in Microsoft Foundry for a customer support platform. The platform will transcribe live phone calls, so that supervisors at your company can view call transcripts and detect issues while the calls are in progress. The call audio will arrive as a continuous stream from the telephony system. You need to ensure that the call transcripts appear within only a few seconds of the audio stream. What should you do?

- A. Run a batch transcription job on recorded audio files.
- B. Use real-time speech to text to process streaming audio input.
- C. Use speech translation to generate the transcripts into multiple languages.
- D. Use text to speech by using a custom neural voice.

Answer: B

NEW QUESTION 32

- (Topic 2)

You are building an app that will share user images. You need to configure the app to:
? Categorize each image as a photograph or drawing.
? Generate a caption for the image.
? Minimize development effort.
Which two services should you include?

- A. Image type detection in Azure Vision in Foundry Tools
- B. Object detection in Azure Vision in Foundry Tools
- C. Content tags in Azure Vision in Foundry Tools
- D. Image classification in Azure Custom Vision
- E. Image descriptions in Azure Vision in Foundry Tools

Answer: AE

NEW QUESTION 36

HOTSPOT - (Topic 2)

You have a Microsoft Foundry project that contains a workflow for a customer support triage process.
 You have an Ask a question node that stores user responses in a local variable named Var01.
 You need to create the following Power Fx expressions:
 ? An if/else condition expression that ensures that Var01 contains a value
 ? A Send message expression that returns the stored user response in uppercase
 How should you configure the expressions? To answer, select the appropriate options in the answer area.
 NOTE: Each correct selection is worth one point.

If/else condition expression:

▼

IsBlank(Local.Var01)

IsEmpty(Local.Var01)

Not(IsBlank(Local.Var01))

Send message expression:

▼

{Local.Var01}

{Upper(Local.Var01)}

{Upper(Var01)}

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

If/else condition expression:

▼

IsBlank(Local.Var01)

IsEmpty(Local.Var01)

Not(IsBlank(Local.Var01))

Send message expression:

▼

{Local.Var01}

{Upper(Local.Var01)}

{Upper(Var01)}

NEW QUESTION 40

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