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Microsoft Developing AI Apps and Agents on Azure Sample Questions (Q56-Q61):

NEW QUESTION # 56

You have a Microsoft Foundry project that contains an agent.

The agent uses a knowledge source built from documents stored in Azure Blob Storage. The documents include digitally scanned PDFs that contain multipage tables.

You have an ingestion job that extracts only plain text, causing loss of table structure, headings, and page-number metadata.

Users frequently ask questions that require the retrieval of specific table rows across the pages.

You need to configure an ingestion job for a Retrieval Augmented Generation (RAG) pipeline that performs optical character recognition (OCR) on scanned PDFs, preserves tables and headings as structure-aware chunks, and stores page-number metadata with each chunk.

How should you configure the ingestion job?

- A. Use OCR and page-level chunking.
- B. Use basic parsing and fixed-size chunking.

- C. Use advanced data parsing to reingest the documents.
- D. Use page-level OCR extraction and store each page as a single chunk.

Answer: C

Explanation:

The correct configuration is advanced data parsing because the issue is not merely OCR; the ingestion job must preserve document structure for reliable RAG retrieval. Microsoft guidance for advanced parsing states that it automatically detects tables across all pages, including tables in scanned documents, merges tables that span multiple pages, restores column headers, and creates table chunks with metadata such as table index, shape, page numbers, section headings, and table previews. This directly satisfies the requirement to retrieve specific rows from multipage tables while retaining source-page context.

Basic parsing with fixed-size chunking would flatten the document into arbitrary text fragments, which is the current failure mode.

OCR with page-level chunking improves text extraction from scanned PDFs, but it does not provide structure-aware chunks that preserve headings and table relationships across pages. Storing each page as a single chunk is too coarse for row-level retrieval and can bury relevant table rows in excessive context. Advanced data parsing is purpose-built for RAG ingestion because it produces semantically meaningful, retrievable chunks and enriches them with metadata needed for citations and grounding.

Reference topics: RAG ingestion, advanced parsing, OCR, table extraction, structure-aware chunking, page metadata, and Azure Blob Storage document ingestion.

NEW QUESTION # 57

You have a Microsoft Foundry project.

You plan to build a customer support solution that contains an agent. The solution must meet the following requirements:

- * Provide accurate, context-aware responses grounded in internal product documentation stored in Azure AI Search.
- * Require deep, multi-step reasoning across long contexts.
- * Generate detailed natural language responses.

Which type of model should you use to power the agent?

- A. a multimodal model
- B. a small language model (SLM)
- C. a key phrase extraction model
- D. a large language model (LLM)

Answer: D

Explanation:

The correct model type is a large language model (LLM). The scenario requires an agent that can reason over retrieved documentation, synthesize context-aware answers, and generate detailed natural language responses. Microsoft Foundry RAG guidance defines Retrieval Augmented Generation as a pattern that combines search with large language models so responses are grounded in organizational data, which directly matches the use of Azure AI Search for internal product documentation.

An LLM is also the correct fit for deep, multi-step reasoning across long contexts. Azure AI Search agentic retrieval guidance states that complex chat and agent scenarios use an LLM to break a user query into smaller focused subqueries for better coverage over indexed content. Microsoft also describes Azure AI Search as a way to ground agents and chatbots in proprietary enterprise data for accurate, context-aware responses.

A multimodal model is unnecessary because the requirements are text-focused, not image, audio, or video based. A key phrase extraction model performs narrow text analytics and cannot generate detailed answers.

An SLM may reduce cost and latency, but the stated need for deep reasoning and long-context synthesis favors an LLM. Reference topics: Microsoft Foundry RAG, Azure AI Search grounding, agentic retrieval, and model selection for generative AI agents.

NEW QUESTION # 58

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 text to speech by using a custom neural voice.
- D. Use speech translation to generate the transcripts into multiple languages.

Answer: B

Explanation:

The correct answer is B. Use real-time speech to text to process streaming audio input . The scenario requires live transcription from a continuous telephony stream, with transcript text appearing within a few seconds while the call is still in progress. Azure Speech in Foundry Tools real-time speech recognition is specifically intended for immediate transcription scenarios such as call center assistance, dictation, and live meeting captioning. Microsoft's Speech guidance describes real-time speech to text as processing audio input and returning transcriptions in real time, which matches the supervisor monitoring requirement.

Batch transcription is inappropriate because it processes stored audio files after recording, not an active live stream. Speech translation is used when the primary goal is translating speech into another language, not simply producing live same-language call transcripts. Text to speech performs the reverse operation by generating spoken audio from text and does not transcribe inbound calls. Real-time speech to text provides the low-latency streaming recognition path required for live operational monitoring.

Reference topics: Azure Speech in Foundry Tools, real-time speech recognition, streaming audio input, call center transcription, and live captions.

NEW QUESTION # 59

You need to recommend a solution to support the planned changes and technical requirements for Agent1 to use the product information stored in storage1.

What should you include in the recommendation?

- A. Azure Translator in Foundry Tools
- **B. Azure AI Search**
- C. Grounding with Bing Search
- D. Azure Document Intelligence in Foundry Tools

Answer: B

Explanation:

The correct recommendation is Azure AI Search. The case study states that the product detail sheets are stored as PDFs in storage1, and that Agent1 must be enabled to retrieve and use detailed product information from those sheets. It also specifies that the indexing pipeline must enable semantic and vector search, and that Agent1 must answer natural language questions about product details by using the product sheet information.

Azure AI Search is the Azure service designed to ingest content from sources such as Azure Blob Storage, create searchable indexes, and support keyword, semantic, hybrid, and vector retrieval for Retrieval Augmented Generation (RAG) solutions. Microsoft's Azure AI Search guidance states that integrated vectorization can chunk content and generate embeddings during indexing, enabling vector search over source documents. It also states that Azure AI Search supports text and vector queries and can improve raw content for search-related scenarios through enrichment pipelines. Azure Translator is unrelated to retrieval. Document Intelligence can extract document structure, but it is not the retrieval index for Agent1. Grounding with Bing Search retrieves public web content, not Contoso's private PDFs in storage1. Reference topics: Azure AI Search, RAG, semantic search, vector search, Azure Blob Storage indexing, and agent grounding.

NEW QUESTION # 60

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 multimodal AI generative model that accepts image uploads and uses extracted image text to generate responses.

You discover that users can upload unsafe images and embed hidden instructions into images to manipulate the model.

You need to implement controls to mitigate the risk.

Solution: You configure protected material detection.

Does this meet the goal?

- A. Yes
- **B. No**

Answer: B

Explanation:

The solution does not meet the goal. Protected material detection is intended to identify large language model output that matches known protected text or code, such as copyrighted text, selected web content, song lyrics, articles, recipes, or code. Microsoft describes protected material detection as a control for preventing AI-generated content from reproducing known protected material, not as a control for image safety or prompt injection.

The stated risk has two parts: users can upload unsafe images, and users can embed hidden instructions in images to manipulate the model. Unsafe image uploads require image moderation, because Azure AI Content Safety provides image APIs that detect harmful content across modalities and can support blocking decisions by harm category and severity. Hidden instructions extracted from images are indirect prompt injection or document attacks; Microsoft Prompt Shields are the capability designed to detect user prompt attacks and document attacks, including harmful instructions embedded in third-party content.

Therefore, protected material detection alone does not mitigate either primary risk. Reference topics: Azure AI Content Safety, image moderation, Prompt Shields, document attacks, indirect prompt injection, and protected material detection.

Topic 1, Case Study Contoso, Ltd

Overview

Contoso, Ltd is a multinational retail company that builds, deploys, and manages generative AI and agent-based solutions by using Microsoft Foundry.

Identity Environment:

Contoso uses Microsoft Entra ID for identity management, authentication, and authorization capabilities that enable agents to access organizational resources and services.

Contoso recently formed a new AI engineering team named Agent1 Dev Team to optimize and maintain existing AI solutions.

The team collaborates with solution architects, DevOps engineers, and security engineers to design, implement, monitor, and secure AI applications.

Contoso also has a team named Agent1 Test Team that is responsible for validating AI solutions before the solution deployments.

Generative Environment:

Contoso has a Microsoft Foundry deployment that contains two projects named Project1 and Project2.

Project1

Project1 contains a customer support agent named Agent1 that assists customers with product inquiries and troubleshooting requests.

Agent1 has the following configurations:

- * Agent1 uses a base model deployment.
- * A safety evaluation pipeline is NOT enabled.
- * Tool invocation approval workflows are NOT enabled.
- * Conversation memory constraints are NOT configured.

Agent1 interacts with customers by using digital support channels and answers general questions about Contoso products.

Project1 is deployed to an Azure region located in the European Union (EU).

Agent1 Dev Team will use Project1 to optimize and maintain Agent1.

Project2

Project2 contains a deployed video generation model. The marketing department at Contoso has access to Project2 and plans to use the model to develop a video creation solution.

Development of the solution is incomplete.

Data Environment:

Contoso stores product-related information in Azure resources that support AI applications.

The Azure environment contains an Azure Blob Storage account named storage1 that stores product detail sheets for all the Contoso products.

The product sheets include specifications, feature descriptions, and product support information that Agent1 can use to answer customer questions. The product sheets are stored in the PDF format.

Problem Statement:

Contoso identifies the following issues:

- * Agent1 has only general knowledge of the Contoso products.
- * A recent chat interaction with Agent1 was analyzed for sentiment. The results of the analysis have NOT been processed yet.
- * Agent1 does NOT use the detailed product information in the product sheets stored in storage1 when responding to customer questions.
- * The finance department at Contoso reports that vendor invoices must be reviewed manually to ensure that the invoices match the terms defined in the vendor contracts. The invoices contain tables, logos, and varied layouts that make the documents difficult to process consistently.

Requirement:

Planned Changes:

Contoso plans to implement the following changes:

- * Implement a solution for Project1 that analyzes the vendor invoices by evaluating both the visual layout and the textual content of the invoices, so that the invoice details can be verified against the vendor contract terms.
- * Update the base model deployment used by Agent1 and standardize the model version to ensure continuity and consistent responses.

- * Enable Agent1 to retrieve and use the detailed product information from the product sheets stored in storage1.
- * Implement an indexing solution for the product sheets that Agent1 can use to answer customer questions.
- * Complete the development of the video creation solution.

Technical Requirements:

Contoso identifies the following technical requirements:

- * The model deployment used by Agent1 must support scalable, high-throughput generative AI workloads and dynamically scale to handle variable customer support traffic, without requiring reserved throughput capacity.
- * The product sheets must be processed by using an indexing pipeline that enables semantic and vector search, so that Agent1 can retrieve the relevant product information.
- * Responses generated by using the product sheet information must be relevant, complete, and accurate.
- * Agent1 must be able to use the product sheets to answer natural language questions about product details.
- * The model version used by Agent1 must remain consistent to ensure stable responses.
- * The data processed by the model must remain within the EU.

Safety and Compliance Requirements:

Contoso identifies the following security and compliance requirements:

- * API keys must NOT be used to access Foundry-deployed models.
- * Access to the Azure resources must follow the principle of least privilege.
- * The developers at Contoso must authenticate to Microsoft Foundry resources by using Microsoft Entra authentication.
- * Access to Project1 must be assigned to the members of Agent1Dev Team by using a security group named SC_Agent1_Dev.
- * Access to Project1 must be assigned to the members of Agent1Test Team by using a security group named SC_Agent1_Test.
- * Agent1 must never reveal customer information, even if a document that contains customer data is added erroneously to the product sheet repository in storage1.
- * The product sheets might contain images that include embedded text. Agent1 must be protected from malicious instructions potentially hidden within the images.

Business Information:

Contoso identifies the following business requirements:

- * Users that interact with Agent1 must have a personalized experience in future interactions, including the ability for Agent1 to retain conversation context and recall relevant information from previous interactions.
- * Agent1 must answer questions only about the products sold by Contoso.

NEW QUESTION # 61

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