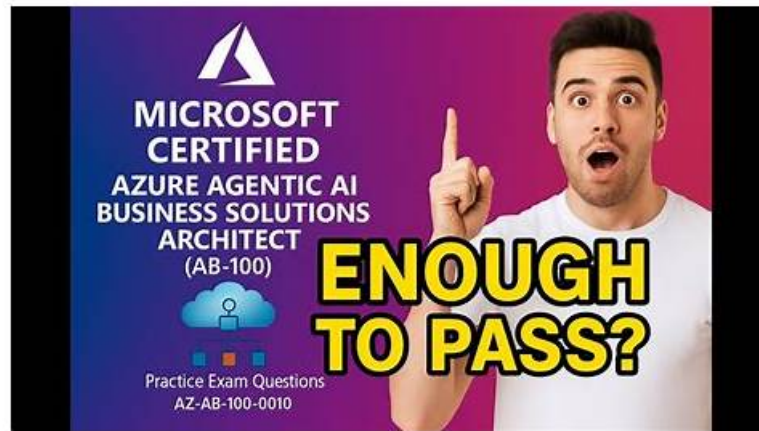


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Microsoft AB-100 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Plan AI-powered business solutions: Focuses on analyzing business requirements and identifying where AI agents and generative AI can improve processes. It also includes defining AI strategy, evaluating ROI, and deciding whether to build, buy, or extend AI components.
Topic 2	<ul style="list-style-type: none">Design AI-powered business solutions: Covers designing AI agents, Copilot integrations, and intelligent workflows using platforms like Copilot Studio, Microsoft Foundry, and Dynamics 365. It includes planning prompts, connectors, agent behaviors, and solution extensibility.

Topic 3	<ul style="list-style-type: none"> • Deploy AI-powered business solutions: Focuses on deploying, testing, monitoring, and optimizing AI solutions in production. It also includes managing ALM processes, performance monitoring, and ensuring security, governance, and responsible AI compliance.
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Microsoft Agentic AI Business Solutions Architect Sample Questions (Q25-Q30):

NEW QUESTION # 25

A company has multiple AI models that support generation of sales transactions.

Each release of the models must be reviewed by a security and compliance team before being deployed to the production environment. The security and compliance team must have access to prior versions to properly determine potential exposures introduced.

You need to recommend a solution to evaluate the impact of each deployment to production. The solution must enhance business continuity.

What should you recommend?

- A. Implement version control for all the AI system components.
- B. Track model retirement schedules to prevent service disruptions.
- C. Create a central model registry that uses version history.
- D. Establish a promotion process by using a quality gate.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Agentic AI Business Solutions Topics:

The correct answer is C. Implement version control for all the AI system components .

This question is not only about model approval. It is about creating a deployment process that allows the organization to:

- * review every release before production
- * compare current and prior versions
- * evaluate the impact of changes
- * improve business continuity if a deployment introduces risk

That makes version control for all AI system components the strongest answer.

Why C is correct

The requirement says the security and compliance team must have access to prior versions to determine exposures introduced by each release. That means the organization must be able to track, compare, and potentially roll back not just the model itself, but the broader AI solution over time.

In real enterprise AI deployments, "AI system components" usually include:

- * models
- * prompts
- * orchestration logic
- * configuration files
- * policies
- * connectors
- * inference code
- * evaluation assets
- * deployment definitions

If only the model is versioned, the team may miss exposure introduced by surrounding components. For example:

- * a prompt change could create unsafe outputs
- * a policy/configuration change could expose sensitive data
- * an orchestration update could alter transaction behavior
- * a connector change could affect compliance boundaries

That is why full AI system version control is the best answer. It gives security and compliance teams complete visibility into what changed across releases.

It also enhances business continuity because version control supports:

- * rollback to known-good versions
- * change auditing
- * release comparison
- * traceability
- * controlled recovery from faulty deployments

From an agentic AI business solutions perspective, this is the most robust governance pattern because AI outcomes are rarely determined by the model alone. They are determined by the entire solution stack.

Why the other options are less appropriate

A). Create a central model registry that uses version history

A model registry is useful, and version history helps, but this option is too narrow. The question asks about evaluating the impact of each deployment and enhancing business continuity. In enterprise AI systems, impact is often caused by more than just the model artifact. A model registry does not necessarily capture all surrounding components that affect production behavior.

B). Establish a promotion process by using a quality gate

A quality gate is valuable for approval workflows, but it does not by itself satisfy the need for deep access to prior versions across the system. It controls promotion, but it does not fully provide historical traceability and rollback coverage for all AI system components.

D). Track model retirement schedules to prevent service disruptions

This may support lifecycle planning, but it does not address the core requirement of comparing releases, reviewing prior versions, and evaluating exposure introduced by each deployment.

Expert reasoning

This question combines three ideas:

* security/compliance review

* access to prior versions

* business continuity

When those appear together, the strongest answer is typically the one that provides end-to-end traceability and rollback across the whole solution, not just a single artifact.

That is why version control for all AI system components is the best recommendation.

NEW QUESTION # 26

You need to recommend a Microsoft Power Platform business solution that consolidates data from multiple internal and external data sources. The solution must meet the following requirements:

- Provide the data as a centralized source for multiple AI systems, including Microsoft Copilot Studio agents, Dynamics 365 applications, and external AI models.
- Support built-in data classification and protection policies.
- Provide data for grounding and analytics.

What should you include in the recommendation?

- A. a Microsoft Power BI semantic model
- B. Azure Data Lake Storage
- C. Microsoft Dataverse
- D. Azure Cosmos DB

Answer: C

Explanation:

Microsoft Dataverse is the ideal foundational component for this scenario, serving as the secure, centralized data platform for the Microsoft Power Platform, Dynamics 365, and AI integrations. By using Dataverse, the business can consolidate, protect, and utilize data across Copilot Studio agents, Dynamics 365 applications, and analytics tools, addressing all stated requirements.

Here is how Dataverse fulfills the requirements in the described scenario:

Centralized Source: It serves as the primary data storage and management engine for Power Platform, Dynamics 365, and Copilot Studio. It consolidates data into a unified data model (Common Data Model), ensuring consistency across internal and external sources.

Internal & External Integration: Dataverse supports data integration from diverse sources using tools like Power Query, Azure Data Factory, and virtual tables that map external data in real-time.

Data Classification & Protection: It features built-in, enterprise-grade security.

AI Grounding & Analytics:

- **Grounding:** It acts as the knowledge source for Copilot Studio agents, providing the necessary business context for accurate generative AI responses.

- **Analytics:** It integrates natively with Power BI for reporting and can synchronize with Microsoft Fabric or Azure Synapse for large-scale data modeling and advanced analytics.

Reference:

<https://avantico.com/solutions/microsoft-platforms/microsoft-dataverse>

NEW QUESTION # 27

A company has an Azure environment that supports multiple business units.

The company plans to implement an AI solution that will perform sentiment analysis on customer product reviews. You need to evaluate the potential cost of the solution to support return on AI investment (ROAI) analysis. What should you use?

- **A. Azure pricing calculator**
- B. Total Cost of Ownership (TCO) Calculator
- C. Azure Monitor
- D. Azure Reservations

Answer: A

Explanation:

The requirement is to evaluate the potential cost of an AI solution before deployment so the company can support a return on AI investment (ROAI) analysis .

The correct choice is C. Azure pricing calculator .

Why C is correct:

The Azure pricing calculator is used to estimate the expected cost of Azure services before implementation.

For an AI solution such as sentiment analysis on customer product reviews , it helps estimate likely spending across the relevant Azure components and usage patterns. That makes it the right tool for cost forecasting as part of ROAI planning

Why the other options are not correct:

* A. Total Cost of Ownership (TCO) Calculator TCO is mainly used to compare broader infrastructure costs, often for migration or environment-level cost comparisons, not detailed service pricing estimation for a planned Azure AI solution.

* B. Azure Reservations Reservations are a purchasing/discount mechanism, not the primary tool for estimating potential solution cost.

* D. Azure Monitor Azure Monitor tracks operational metrics and runtime health after deployment; it is not used for pre-deployment cost estimation.

NEW QUESTION # 28

You need to design a Microsoft 365 Copilot solution to optimize employee productivity. The solution must meet the following requirements:

- Ensure that the employees can query content stored in a subset of Microsoft SharePoint Online sites and in Teams by using natural language-based prompt actions.

- Ensure that employees receive contextually relevant responses in Microsoft 365 Copilot.

What should you include in the design?

- A. Build a Microsoft Power Automate desktop flow to read the SharePoint content and post the responses to Teams.
- B. Create a custom REST API that crawls the SharePoint content.
- C. Modify SharePoint settings.
- **D. Configure Microsoft Graph access.**

Answer: D

Explanation:

To enable Microsoft 365 Copilot to query a specific subset of SharePoint Online and Teams content using natural language, you can implement a combination of Restricted SharePoint Search and Microsoft Graph Connectors.

1. Restricting Content Access

You can limit the scope of data Copilot searches by using features that control which sites are indexed or accessible.

2. Configuring Microsoft Graph Access

Microsoft Graph acts as the bridge connecting Copilot to your organizational data. To integrate specific sources.

3. Enabling Prompt Actions & Context

Declarative Agents: You can create specialized Copilot Agents grounded in specific SharePoint knowledge sources. These agents use natural language instructions to focus on a subset of data for more contextually relevant responses.

Direct Referencing: Users can improve response relevance by explicitly naming files, folders, or Teams channels in their natural language prompts (e.g., "Summarize notes from the 'Product Launch' channel").

Reference:

[https://nboldapp.com/advanced-microsoft-365-copilot-techniques-prompting-grounding-and- automation/](https://nboldapp.com/advanced-microsoft-365-copilot-techniques-prompting-grounding-and-automation/)

NEW QUESTION # 29

A company has an AI solution named Solution1 that is deployed to the production environment. Solution1 uses an Azure OpenAI model to generate marketing emails for existing customers. During an internal review, you identify that Solution1 creates different emails depending on the customers' traits. You need to recommend a strategy to mitigate the bias. The strategy must adhere to Microsoft responsible AI principles. What should you recommend?

- A. Modify Solution1 to randomly generate emails for different traits.
- **B. Modify the system instructions of Solution1.**
- C. Modify the contents of the training dataset.
- D. Retrain the model by using a larger dataset.

Answer: B

Explanation:

The scenario describes a deployed AI solution using Azure OpenAI that exhibits bias (creating disparate outcomes based on customer traits). This directly impacts the Fairness principle of Microsoft's Responsible AI framework.

Why "Modify the system instructions" is the Correct Strategy:

* Direct Control via System Metaprompts: In large language model (LLM) applications like those powered by Azure OpenAI, the system instructions (or system message) define the behavior, constraints, and tone of the model. By modifying these instructions, you can explicitly direct the model to treat all customer segments equitably and ignore specific sensitive traits when drafting marketing content.

* Mitigation without Re-engineering: * Option B and D (Training/Retraining): Azure OpenAI models are foundation models. Most companies use them via API and do not have access to the original "training dataset" to modify it. While fine-tuning is possible, it is significantly more expensive and complex than prompt engineering.

* Option C (Randomization): Randomization does not solve bias; it creates inconsistency and potentially irrelevant content, violating the Reliability and Safety principle.

* Alignment with Responsible AI: Microsoft's documentation on Fairness recommends "Instructional Mitigation." This involves adding specific rules to the system prompt, such as: "You must ensure the tone and value proposition of the email remain consistent across all demographic groups" or "Do not use customer traits such as age or gender to influence the core marketing message."

NEW QUESTION # 30

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