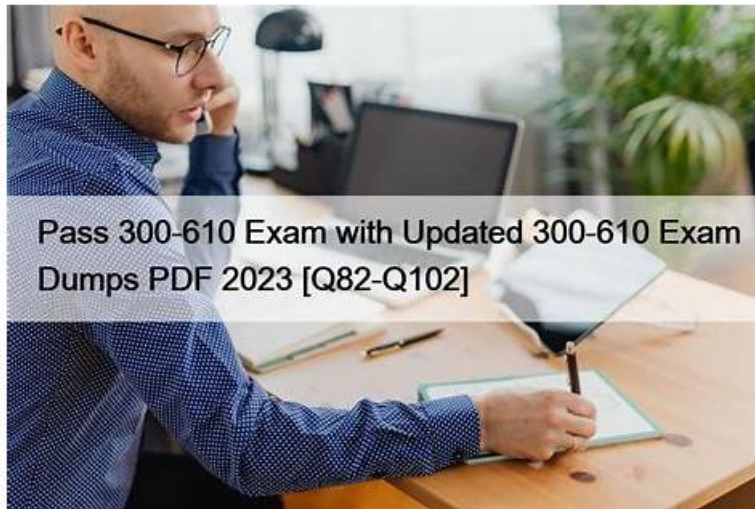


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Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q47-Q52):

NEW QUESTION # 47

Drag and Drop Question

A real-time endpoint is deployed in Azure Machine Learning to serve predictions to a web application.

Users report intermittent failures and unexpected responses when calling the endpoint.

You need to identify the appropriate troubleshooting action for each reported issue.

Which troubleshooting action should you perform for each issue? To answer, move the appropriate troubleshooting actions to the correct issues. You may use each troubleshooting action once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Troubleshooting actions	Troubleshoot endpoint issues	Troubleshooting action
Adjust autoscaling configuration.	Issue	
Restart the endpoint.	Requests fail after deployment updates.	
Review deployment logs.	Endpoint responds but returns incorrect results.	
Validate scoring script and model version.	Endpoint times out under increased traffic.	

Answer:

Explanation:

Troubleshooting actions	Troubleshoot endpoint issues	Troubleshooting action
Adjust autoscaling configuration.	Issue	
Restart the endpoint.	Requests fail after deployment updates.	Review deployment logs.
Review deployment logs.	Endpoint responds but returns incorrect results.	Validate scoring script and model version.
Validate scoring script and model version.	Endpoint times out under increased traffic.	Adjust autoscaling configuration.

NEW QUESTION # 48

An organization is deploying several generative AI workloads by using Microsoft Foundry. Each workload must meet different requirements related to data governance, task specialization, and operational cost control.

The organization requires models that meet the following requirements:

- Model behavior aligns with the task being performed.
- Data handling aligns with internal governance policies.
- Operational complexity and cost are justified by workload needs.

You need to select the foundation model options that meet the requirements.

Which three models can you select? Each correct answer presents a complete solution. Choose three.

NOTE: Each correct selection is worth one point.

- A. A model that supports multiple input types when workloads require combined text and image analysis
- B. The smallest available model to minimize the usage cost
- C. The largest available model to simplify operational management
- D. A model that offers enterprise governance controls when workloads process regulated business data
- E. A model that is optimized for conversational reasoning when deploying an interactive assistant

Answer: B,C,D

Explanation:

[B] Operational complexity and cost are justified by workload needs.

In a scenario where a single generative AI workload is deployed via Microsoft Foundry and the associated high operational complexity and costs are already justified, utilizing the largest available model (e.g., GPT-4 class models) is an appropriate strategy to simplify operational management.

This approach aligns with a "production-first" or high-performance mindset where, instead of managing multiple smaller, specialized models, a single powerful model provides the necessary reasoning capabilities, accuracy, and broad applicability for complex, high-stakes tasks, reducing the overhead of engineering, fine-tuning, and maintaining several smaller models.

[C] Model behavior aligns with the task being performed

In Microsoft Azure AI Foundry, the most appropriate model to minimize usage costs while maintaining task alignment is typically a Small Language Model (SLM) from the Phi family or a specialized "mini" partner model.

Top Recommended Small Models for Cost-Efficiency

These models are designed for high efficiency and lower latency, making them ideal for specific, well-defined tasks.

[E] Data handling aligns with internal governance policies

In a Microsoft Foundry (Azure AI Foundry) setup, the Azure OpenAI Service models are the appropriate choice for processing regulated business data due to their built-in enterprise governance and security controls. Unlike standard public models, these "Direct Models" are hosted within your Azure tenant and adhere to strict organizational policies.

Enterprise Governance Controls

For workloads involving regulated data, the following governance features in Microsoft Foundry ensure compliance:

Foundry Control Plane: Centralizes management, observability, and compliance enforcement for all models and agents in one

interface.

Azure Policy Integration: Allows administrators to enforce specific model usage, restrict deployments to approved regions, and apply predefined security configurations.

Microsoft Purview Integration: Extends data security posture management (DSPM) to AI workloads, enabling sensitive data discovery, classification, and data loss prevention (DLP) across user prompts and model responses.

Microsoft Entra Agent ID: Automatically assigns a unique identity to every AI agent, enabling granular, role-based access control (RBAC) and auditability of model interactions.

Azure AI Content Safety: Provides configurable filters to block harmful or regulated content and includes "protected material detection" to prevent copyright risks.

Reference:

<https://azure.microsoft.com/en-us/products/ai-foundry/models>

<https://learn.microsoft.com/en-us/azure/foundry/responsible-ai/openai/data-privacy>

NEW QUESTION # 49

Case Study 1 - Fabrikam Inc.

Background

Fabrikam Inc. is a mid-sized healthcare analytics company that provides population health dashboards and predictive insights to regional hospital systems across the United States.

Fabrikam Inc. customers rely on near real time analytics to monitor patient flow, staffing needs, and readmission risks. They use multiple traditional forecasting machine learning models for predictions.

Fabrikam Inc. has an established Microsoft Azure footprint. The company uses Jupyter Notebooks that run on a local server as the primary development environment. The data science team is experiencing scalability, asset management and code management issues with the current development platform. Fabrikam Inc. plans to migrate to a cloud-based development environment to mitigate the issues.

Additionally, the company plans to implement a Retrieval-Augmented Generation (RAG)-based chat application for client support. Leadership requires the application to be developed and deployed with a low operational risk.

Current Environment

Fabrikam Inc. operates a single Azure subscription that has the following components:

- * Azure Data Lake Storage Gen2 that contains de-identified clinical and operational datasets
- * Azure AI Search indexing curated analytical documents and reference materials
- * A small set of Python-based training scripts maintained by data scientists
- * Azure OpenAI Service with deployed foundational models
- * A Microsoft Foundry resource for building a RAG-based solution

Evaluation data has manually defined expected responses.

The current challenges faced by the data science team include the following:

- * Model training jobs are run manually from notebooks.
- * Experiment tracking is inconsistent
- * Model versions are registered without standardized metadata.
- * Deployment is performed manually by data scientists, with limited rollback capability.
- * The team has no standardized evaluation process for generative AI outputs.

The environment currently allows public network access. Authentication relies on user accounts rather than managed identities. Compute targets are manually created and shared across experiments. This has led to resource contention during peak usage.

Business Requirements

Fabrikam Inc. has the following business requirements for the modernization initiative:

- * Provide a conversational interface that answers analytics questions by using internal documents and datasets.
- * Ensure that sensitive healthcare-related data is not exposed outside the Fabrikam Inc. Azure tenant.
- * Enable repeatable and auditable model training and deployment processes.
- * Support experimentation to compare prompt strategies and fine-tuned models.
- * Align the model with the ranked preferences and optimize behavior for the long term.
- * Minimize disruption to existing analytics workloads during rollout.

Technical Requirements

To support the business goals, Fabrikam Inc. identifies these technical requirements:

- * Use Azure Machine Learning workspaces to centrally manage data assets, models, and environments.
- * Implement experiment tracking and model versioning for all training jobs.
- * Orchestrate training and evaluation by using pipelines rather than manually running notebooks.
- * Deploy traditional machine learning models with support for staged rollout and rollback.
- * Improve RAG-based solution output quality.
- * Use the existing evaluation datasets that are based on real data with input-output pairs.
- * Apply advanced fine-tuning techniques only when prompt engineering is insufficient Issues and Constraints Fabrikam Inc. must

comply with internal security policies that require the company to restrict network access and avoid long-lived secrets. The data science team has limited Azure DevOps experience, so solutions must favor managed services and automation over custom infrastructure.

Cost predictability is important. Leadership prefers serverless or managed compute options where possible but is willing to approve dedicated compute for stable production workloads.

Problem Statement

Fabrikam Inc. must design and implement an Azure-based AI operations solution that enables reliable training, evaluation, deployment, and iteration of generative AI models. The solution must support experimentation and gradual rollout while ensuring governance, security, and operational stability. The data science and platform teams must collaborate to deliver this solution by using Azure Machine Learning and Microsoft Foundry capabilities.

You need to standardize how Fabrikam Inc. manages machine learning assets. Which action should you perform first?

- A. Deploy a managed online endpoint.
- B. Create a new Microsoft Foundry project.
- **C. Create a shared Azure Machine Learning workspace.**
- D. Register assets in the Azure Machine Learning registry.

Answer: C

Explanation:

Scenario: To support the business goals, Fabrikam Inc. identifies these technical requirements:

Use Azure Machine Learning workspaces to centrally manage data assets, models, and environments.

To centrally manage data assets, models, and environments across multiple Azure Machine Learning workspaces, you should Create a shared Azure Machine Learning workspace first.

The workspace serves as the top-level resource for your machine learning activities, providing a centralized place to view and manage the artifacts you create. While Registries are used to share assets (like models and environments) across existing workspaces, you must have a workspace as a prerequisite to create or use those assets in a project context.

Key Management Options

Azure provides several ways to organize and centralize your machine learning operations:

Shared Workspace: The primary container for managing data, compute, and experiments within a project team.

Registries: Used specifically for MLOps to decouple assets from specific workspaces, allowing them to be promoted through development, test, and production environments.

Hub Workspaces: A newer feature that groups multiple project workspaces under a single "hub" to share security settings, connections, and compute resources.

Reference:

<https://docs.azure.cn/en-us/machine-learning/concept-workspace>

NEW QUESTION # 50

You have a deployment of an Azure OpenAI Service base model.

You plan to fine-tune the model.

You need to prepare a file that contains training data for multi-turn chat.

Which file encoding method should you use?

- **A. UTF-8**
- B. UTF-16
- C. ISO-8859-1
- D. ASCII

Answer: A

Explanation:

UTF-8 is the universal encoding standard: it is backward-compatible with ASCII for standard Latin characters, supports every Unicode code point covering over 140,000 characters, and is the de facto standard for all modern APIs including Azure OpenAI. This matters for fine-tuning because training data often contains diverse characters from multiple languages, special punctuation, and domain-specific symbols. If they use ASCII encoding, any accented character or non-Latin script will be corrupted or lost entirely. UTF-

16 adds a Byte Order Mark and can cause parsing issues with tools that expect standard JSONL. ISO-8859-1 covers Western European characters only and fails immediately with CJK or Arabic scripts. The Azure OpenAI fine-tuning documentation explicitly states that training files must be UTF-8 encoded, making it the only safe choice.

Microsoft Learn Reference Topic: Azure OpenAI fine-tuning - File format and encoding requirements

NEW QUESTION # 51

Your model requires access to external APIs using sensitive credentials during inference. You must ensure credentials are not exposed in code, logs, or environment variables. What should you implement?

- A. Store in config files
- B. Hardcode credentials
- C. Use Azure Key Vault with managed identity
- D. Encrypt credentials locally

Answer: C

Explanation:

Azure Key Vault with managed identity ensures secure access to sensitive credentials without exposing them in code or configuration. Managed identities eliminate the need for hardcoded secrets. Other approaches, such as config files or environment variables, increase the risk of accidental exposure.

NEW QUESTION # 52

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