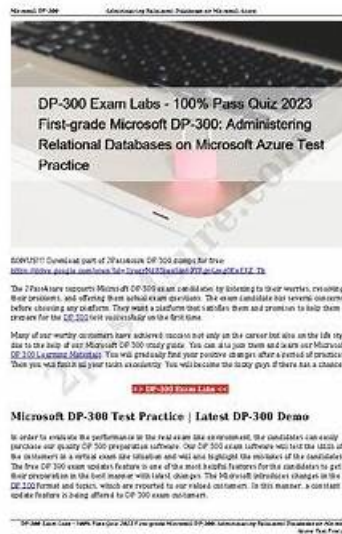


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further time.

## Microsoft Operationalizing Machine Learning and Generative AI Solutions Sample Questions (Q18-Q23):

### NEW QUESTION # 18

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

**Answer: B**

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 # 19

Drag and Drop Question

A team iterates prompts used by a generative AI agent. The team must support internal review before releasing changes.

The team must:

- Track prompt changes with a clear history for audit and rollback.
- Compare prompt variants in parallel without affecting the prompt used in the production environment.

You need to select the appropriate source control approach for each requirement.

What should you use for each requirement? To answer, move the appropriate source controls to the correct requirements. You may use each source control 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.

**Answer:**

Explanation:

### NEW QUESTION # 20

An organization validates generative AI applications during CI/CD Microsoft Foundry.

Evaluation must run automatically and block releases when quality thresholds are NOT met.

Manual evaluation is no longer acceptable.

Evaluation must use both predefined quality metrics and custom safety checks.

You need to implement an automated evaluation workflow that supports both built-in and custom metrics.

What should you do?

- A. Enable application tracing to collect runtime telemetry.
- **B. Implement an evaluation step by using GitHub Actions.**
- C. Monitor latency metrics during model inference.
- D. Review evaluation results manually after deployment.

**Answer: B**

Explanation:

To implement an automated evaluation step in GitHub Actions for Microsoft Foundry AI, you can use the Microsoft Foundry Evaluation GitHub Action (or the Azure AI Evaluation SDK).

This setup allows you to run both built-in metrics (like groundedness or coherence) and custom safety checks, then fail the build if scores fall below your defined thresholds.

Implementation Steps

## 1. Define Your Evaluators

You need to configure which metrics to use. Microsoft Foundry supports two main types:

**Built-in Metrics:** Pre-trained models that score quality (coherence, fluency) and safety (hate, violence, self-harm).

**Custom Metrics:** Python-based evaluators you define to check domain-specific requirements.

## 2. Configure the GitHub Actions Workflow

Create a `.yaml` file in your `.github/workflows` directory. This workflow will:

Trigger on a pull request or commit.

Authenticate with Azure/Foundry.

Run Evaluation using the `microsoft/ai-agent-evals` action.

Enforce Thresholds to block the release if quality is insufficient.

Key Components for "Block Release" Logic

To ensure the release is blocked, your workflow must include a gating step that interprets the evaluation results:

Reference:

<https://learn.microsoft.com/en-us/training/modules/automated-evaluation-genaiops>

## NEW QUESTION # 21

A financial services company is deploying Microsoft Foundry to host generative AI workloads that process regulated customer data. The Microsoft Foundry environment must prevent any public network exposure while still allowing services managed by Microsoft Foundry to communicate with dependent Azure resources.

Security auditors require that all traffic to and from the Microsoft Foundry resource remain on private networks, with no public endpoints available.

You need to configure the Microsoft Foundry environment so that network access is restricted while maintaining full platform functionality.

Which two actions should you perform? Each correct answer presents part of the solution.

Choose two.

NOTE: Each correct selection is worth one point.

- A. Disable public network access to the Microsoft Foundry resource.
- **B. Disable all inbound network access.**
- **C. Configure a managed virtual network for the Microsoft Foundry resource.**
- D. Use API key authentication for all model endpoints.
- E. Deploy the Microsoft Foundry resource in a separate Azure subscription.

**Answer: B,C**

Explanation:

To host generative AI workloads in a Microsoft Foundry environment with strictly private communication and no public network exposure, you must configure a Managed Virtual Network (Managed VNet) with specific isolation settings and disable all public inbound access.

[A]

Enable Managed Virtual Network Isolation

During the creation of your Azure AI Foundry hub, navigate to the Networking tab.

Select the Private with Approved Outbound isolation mode. This mode ensures that all outbound traffic from the managed compute resources is restricted to only the destinations you explicitly approve, such as dependent Azure resources.

Once enabled, this isolation mode cannot be disabled.

[E]

Disable Public Inbound Access

In the Networking tab of your Foundry resource, set Public network access to Disabled.

This action blocks all traffic from the public internet, ensuring the resource is only accessible through private connections.

Reference:

<https://learn.microsoft.com/en-us/azure/foundry/how-to/managed-virtual-network>

## NEW QUESTION # 22

A data science team completes multiple training runs within an experiment by using MLflow.

The team wants to store a selected model in Azure Machine Learning so that it can be versioned and deployed later.

The model must be versioned centrally for reuse across environments.

You need to version the trained model.

Which two actions should you perform? Each correct answer presents part of the solution.

Choose two.

NOTE: Each correct selection is worth one point.

- A. Locate and capture the model artifacts from the outputs of the training run.
- B. Register the model in the Azure Machine Learning workspace.
- C. Tag the training experiment with a name.
- D. Export the model files to local storage.

**Answer: A,B**

Explanation:

To set up versioning for a trained model in an Azure Machine Learning (Azure ML) workspace using MLflow, you must capture the model artifacts during the training run and then register the model into the centralized registry.

[A]

#### 1. Capture Model Artifacts

During each training run, use the MLflow SDK to log the model. This ensures that all necessary files (the model binary, environment dependencies, and the MLmodel metadata) are stored as run outputs in the workspace.

Manual Logging: Use a flavor-specific method like `mlflow.sklearn.log_model(model, "model_path")` within an active run.

Automatic Logging: Call `mlflow.autolog()` before starting your training. This automatically captures metrics, parameters, and the model artifacts for supported frameworks.

Artifact Location: Once logged, artifacts are typically found in the `outputs/` folder of the specific run, accessible via the Azure Machine Learning Studio.

[B]

#### 2. Register the Model

After identifying the best-performing run, you register it to the Model Registry. This creates a named, versioned entity that can be accessed across different environments for deployment.

To set up versioning for an MLflow model in Azure Machine Learning (Azure ML) that is accessible across different environments, you should use a centralized Azure ML Registry. While a standard Azure ML Workspace acts as an MLflow server for individual experiments, an Azure ML Registry is the specifically designed feature for sharing models, environments, and components across multiple workspaces and environments within an Azure tenant.

#### 3. Centralized Reuse

By registering the model in the workspace's registry, you establish a single source of truth. You can then load this specific version in any environment (e.g., staging or production) using its registry URI: `models:/<model_name>/<version_or_alias>`.

Incorrect:

[Not D]

Must use an Azure ML Registry (Central).

Reference:

<https://mlflow.org/docs/latest/ml/model-registry/>

## NEW QUESTION # 23

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