

The team needs to introduce a new version of a model to production without disrupting existing users. The team must validate the new version before full rollout. You need to reduce risk during deployment. What should you do?

- A. Replace the existing endpoint.
- **B. Split traffic between deployments.**
- C. Route all traffic to the new deployment.
- D. Deploy the model to a batch endpoint.

정답: B

설명:

To introduce a new model version in Azure Machine Learning without service interruption, you should use Blue/Green Deployment with Traffic Splitting.

This strategy allows you to run two versions of a model simultaneously under a single Online Endpoint, gradually shifting users to the new version once it is validated.

Key Benefits

Zero Downtime: The endpoint URL stays the same; only the backend routing changes.

Easy Rollback: If the new model fails, you can instantly flip traffic back to 100% on the old version.

Risk Mitigation: Only a small subset of users is exposed to the unproven model initially.

Implementation Steps

1. Create the "Green" Deployment

Deploy the new model version as a second deployment under the existing online endpoint.

Initially, set its traffic allocation to 0%.

2. Canary Testing (Initial Split)

Shift a small percentage of traffic (e.g., 10%) to the new deployment. Monitor performance metrics, error rates, and model accuracy in a real-world environment.

3. Validation & Monitoring

Use Azure Monitor and Application Insights to compare the two deployments. Check for:

Latency: Is the new model slower?

HTTP Status Codes: Are there 4xx or 5xx errors?

Model Drift: Is the prediction quality as expected?

4. Full Rollout

If the new version is stable, increase the traffic split (e.g., 50/50) until the new model handles 100% of the traffic.

5. Cleanup

Once the "Green" deployment is confirmed as the new production standard, you can delete the old ("Blue") deployment to save costs.

Reference:

<https://learn.microsoft.com/en-us/azure/well-architected/ai/operations>

질문 # 38

You must ensure full reproducibility of experiments including dataset, code, and environment across multiple runs and workspaces. Which combination of practices is MOST appropriate?

- A. Dataset versioning only
- **B. Environment + dataset + code versioning**
- C. Git only
- D. Logging metrics only

정답: B

설명:

Reproducibility requires versioning all components: code, datasets, and environments. Missing any of these elements prevents exact replication of experiments. For example, the same code with different data or dependencies can produce different results, making debugging and auditing difficult.

질문 # 39

Drag and Drop Question

A company is standardizing generative AI development across multiple teams.

Each team requires an isolated workspace. Governance and shared connections must be centrally managed.

You need to implement a Microsoft Foundry environment structure that supports centralized governance and team isolation.

Which type of configuration should you use for each requirement? To answer, move the appropriate configurations to the correct requirements. You may use each configuration 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.

정답:

설명:

질문 # 40

Hotspot Question

You manage a Retrieval-Augmented Generation (RAG) system that retrieves internal policy documents from a vector index.

Recent analysis shows that:

- Retrieved results frequently include duplicated content from the same document.
- Retrieved chunks sometimes span unrelated policy sections.

You review the following retrieval and ingestion configurations:

You need to reduce duplicated retrieval results and improve chunk relevance across policy sections. For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

정답:

설명:

질문 # 41

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear on the review screen.

You work in Microsoft Foundry with a prompt flow.

You must manually evaluate prompts and compare results across prompt variants.

You need to capture the inputs, outputs, token usage, and latencies for each flow run for the evaluation.

Solution: In Microsoft Foundry, turn on Tracing for the prompt flow of the project and execute test runs to produce trace data.

Does the solution meet the goal?

- A. Yes
- B. No

정답: A

설명:

Correct:

* In Microsoft Foundry, turn on Tracing for the prompt flow of the project and execute test runs to produce trace data.

Incorrect:

* Create prompt variants and compare their outputs in the Evaluation experience.

* Use the prompt flow SDK to enable tracing for the flow before executing runs. Then run the flow to generate traceable results.

Note:

In Azure AI Foundry, you can capture and compare these metrics by enabling Tracing and using the Bulk Test feature. This allows you to systematically evaluate different prompt variants against a common dataset.

Steps to Evaluate and Compare Prompt Variants

*-> 1. Enable Tracing

Navigate to your Prompt Flow project.

Locate the Tracing toggle at the top of the flow authoring page.

Switch it to On.

This ensures every execution captures latency, token counts, and node-level inputs/outputs.

2. Create Prompt Variants

Within your flow, identify the LLM node you want to test.

Click Variants to create multiple versions of your prompt (e.g., Variant_0, Variant_1).

This allows you to test different instructions or few-shot examples side-by-side.

3. Run a Bulk Test (Evaluation)

4. Analyze the Results

Reference:

<https://www.linkedin.com/pulse/streamlining-generative-ai-development-azure-foundry-tracing- taneja-mbwez>

질문 # 42

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