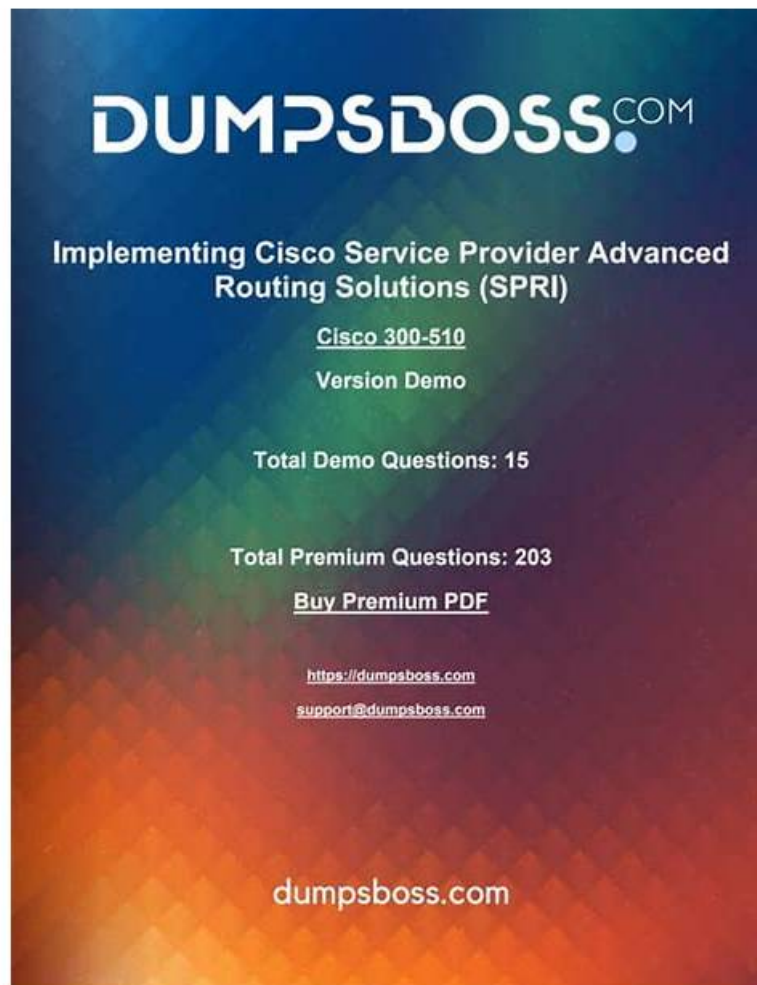


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## Microsoft Operationalizing Machine Learning and Generative AI Solutions

## Sample Questions (Q50-Q55):

### NEW QUESTION # 50

You manage an Azure Machine learning workspace. You develop a machine learning model.

You must deploy the model to use a low-priority VM with a pricing discount.

You need to deploy the model.

Which compute target should you use?

- A. Azure Kubernetes Service (AKS)
- B. Azure Container Instances (ACI)
- C. Azure Machine Learning compute clusters
- D. Local deployment

**Answer: C**

Explanation:

The best compute target for deploying a model using low-priority VMs (or their modern successor, Spot VMs) is an Azure Machine Learning compute cluster.

Best Compute Target: AML Compute Cluster

For low-priority/Spot pricing, you should use an Azure Machine Learning compute cluster configured with the LowPriority tier.

Primary Use Case: This target is specifically recommended for batch deployments. Batch inference is ideal for low-priority VMs because these jobs are asynchronous and can tolerate the interruptions (preemptions) inherent to discounted capacity.

Pricing Advantage: Low-priority VMs offer significant discounts—often up to 80% off standard rates—by utilizing unused Azure capacity.

Automatic Handling: When a node is preempted during a batch job, Azure Machine Learning automatically attempts to replace the lost capacity and re-queues failed tasks to the cluster.

Reference:

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-use-low-priority-batch>

### NEW QUESTION # 51

A Retrieval-Augmented Generation (RAG) solution returns incomplete answers because relevant content is inconsistently retrieved from the knowledge source.

You need to improve RAG accuracy without changing the embedding model currently in use. You need to achieve this goal while minimizing operational costs.

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. Implement an optimized re-ranker.
- B. Tune chunk size and overlap to match content structure.
- C. Increase token limits for all requests.
- D. Optimize the length of embedding vectors.

**Answer: A,B**

Explanation:

To improve Retrieval-Augmented Generation (RAG) accuracy, address inconsistent retrieval, and eliminate incomplete answers without changing the embedding model or increasing costs significantly, you must move beyond naive fixed-length chunking and implement a two-stage retrieval process.

Here is the targeted, low-cost strategy:

1. Tune Chunk Size and Overlap to Match Content Structure

Inconsistent retrieval often occurs because important information is split across chunk boundaries (breaking context) or chunks are too large, diluting the semantic meaning.

2. Implement an Optimized Re-ranker

The initial vector search often returns "noise"-chunks that are semantically close but not actually relevant. A re-ranker acts as a second, smarter, but more "expensive" step that works on a smaller subset of data, making it low-cost overall.

Reference:

<https://medium.com/@sthanikamsanthosh1994/how-to-improve-rag-retrieval-augmented-generation-performance-2a42303117f8>

### NEW QUESTION # 52

You want to ensure ML pipelines produce identical results when executed in different regions or workspaces. Which factor is MOST critical to control for reproducibility?

- A. Same dataset name
- B. Same compute SKU
- C. Same user identity
- **D. Versioned datasets and environments**

**Answer: D**

Explanation:

Reproducibility across environments depends on consistent versioning of datasets and environments. Differences in data or dependencies can lead to inconsistent results even if compute resources are identical. Proper asset versioning ensures experiments can be reliably reproduced in any workspace or region.

### NEW QUESTION # 53

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 manage an Azure Machine Learning workspace. The Python script named `script.py` reads an argument named `training_data`.

The `training_data` argument specifies the path to the training data in a file named `dataset1.csv`.

You plan to run the `script.py` Python script as a command job that trains a machine learning model.

You need to provide the command to pass the path for the dataset as a parameter value when you submit the script as a training job.

Solution: `python script.py dataset1.csv`

Does the solution meet the goal?

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

**Answer: B**

Explanation:

Correct:

```
* python script.py --training_data ${inputs.training_data}
```

The script is named `script.py`.

For the parameter use `${inputs.training_data}`

Incorrect:

```
* python script.py --training_data dataset1.csv
```

```
* python script.py dataset1.csv
```

```
* python train.py --training_data training_data
```

Note: Read a TabularDataset, Example

In the Input object, specify the type as `AssetTypes.MLTABLE`, and mode as `InputOutputModes.DIRECT`:

\* Details omitted\*

```
job = command(  
code="./src", # Local path where the code is stored  
*-> command="python train.py --inputs ${inputs.input_data}",  
inputs=my_job_inputs,  
environment="<environment_name>:<version>",  
compute="cpu-cluster",  
)
```

Reference:

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-read-write-data-v2>

### NEW QUESTION # 54

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

Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

Explanation:

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-mbwze>

## NEW QUESTION # 55

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