

PRACTICE QUESTIONS

Microsoft

AI-300

Machine Learning Operations Engineer Associate

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EDITION	Free Set 1
QUESTIONS	10
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EXAM	Microsoft AI-300, Machine Learning Operations Engineer Associate

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10 practice questions for the Microsoft AI - 300 exam, Machine Learning Operations Engineer Associate, each followed by its answer and a short explanation. More free sets and the full practice exam:

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1. A team needs the same Python packages on every training job and wants the environment versioned. Which asset should it define?

- A A custom environment with a conda or Docker file
- B A datastore with a SAS token
- C A compute instance with packages installed by hand
- D A model signature

Answer: A

A versioned custom environment captures the base image and packages so every job runs the same setup. Installing packages by hand on a compute instance is the tempting shortcut, but the setup drifts and cannot be reproduced. A model signature describes a model's inputs and outputs, not its packages.

2. A deployment that scores large datasets on a schedule, with asynchronous results, uses a _____ endpoint.

Answer: batch (also accepted: batch endpoint)

Batch endpoints run asynchronous scoring jobs over large inputs. Online endpoints are the tempting choice for scoring, but they are built for low-latency requests one at a time. Use batch endpoints when throughput matters more than response time.

3. Which monitoring signal compares the distribution of incoming features with the training baseline?

- A Endpoint key rotation logs
- B Prediction latency histogram
- C Data drift signal
- D Model registry tags

Answer: C

The data drift signal compares incoming feature distributions with the baseline and alerts when they diverge. A latency histogram is the tempting operational view, but it shows speed rather than changes in the inputs. Key rotation logs and registry tags say nothing about the data.

4. A sweep job trains a single fixed set of hyperparameters and reports only one result.
- A True
 - B False

Answer: B (False)

A sweep job searches a defined space of hyperparameters across many trials and reports the best one. A single command job is the tempting comparison, since it runs once with fixed settings.

5. Which two inputs does a prompt flow evaluation need to score a RAG answer for groundedness? (Choose two.)
- A The compute SKU of the endpoint
 - B The question and the generated answer
 - C The registered model version number
 - D The datastore holding the training data
 - E The retrieved context for that question

Answer: B, E

Groundedness compares the generated answer with the retrieved context for the question. The compute SKU is the tempting operational detail, but the hardware does not change the score. The model version number and the training datastore are not evaluation inputs.

6. Which part of a command job definition passes values and data into the training script by name?
- A The compute SKU name
 - B The inputs section
 - C The endpoint traffic split
 - D The registry replication policy

Answer: B

The inputs section defines the values and data that the command receives, and the script reads them by name. The compute SKU is the tempting setting because it also lives in the job file, but it selects hardware rather than passing script values. Traffic splits and replication policies do not reach the script.

7. Which practice keeps a shared Azure Machine Learning workspace secure when several teams use it?
- A Share one service principal secret among all teams
 - B Give everyone the Owner role on the subscription
 - C Disable managed identities for the compute clusters
 - D Assign workspace roles per team through Entra ID groups

Answer: D

Role assignments on Entra ID groups give each team only the access it needs, and they are easy to revoke when membership changes. Sharing one secret is the tempting shortcut, but it cannot be attributed to a person and bypasses role checks. Owner on the subscription grants far more than any team needs.

8. The scoring URI of a managed online endpoint is built from the endpoint _____ and the region it runs in.

Answer: name (also accepted: endpoint name)

The endpoint name forms part of the hostname in the scoring URI, so renaming an endpoint changes its address. The deployment name is the tempting value to use, but deployments sit behind the endpoint and are not part of its hostname.

9. A data scientist needs to record the exact dataset each model was trained on, so results can be reproduced later. Which feature supports this?
- A Versioned data assets
 - B Compute instance snapshots
 - C Model card PDF exports
 - D Endpoint traffic splits

Answer: A

Versioned data assets pin the exact data a job used, and the version is recorded with the run. Compute instance snapshots are the tempting choice for reproducibility, but they capture a machine rather than the dataset. Traffic splits control routing, not training data.

10. A team wants an alert when the feature distribution of production traffic shifts away from the training data. Which feature should it configure?
- A Batch endpoint scheduling
 - B Compute cluster autoscale
 - C Model monitoring with a data drift signal
 - D Workspace diagnostic settings

Answer: C

Model monitoring with a data drift signal compares production inputs with a baseline and alerts on a threshold. Diagnostic settings are the tempting choice for observability, but they export logs and do not compare distributions. Batch scheduling and autoscale do not watch data at all.