



DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

You develop a machine learning project on a local machine. The project uses the Azure Machine Learning SDK for Python. You use Git as version control for scripts.

You submit a training run that returns a Run object.

You need to retrieve the active Git branch for the training run.

Which two code segments should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. `details = run.get_environment()`
- B. `details.properties[\\'azureml.git.branch\\']`
- C. `details.properties[\\'azureml.git.commit\\']`
- D. `details = run.get_details()`

Correct Answer: BC

QUESTION 2

You create an Azure Machine learning workspace.

You must use the Azure Machine Learning Python SDK v2 to define the search space for discrete hyperparameters. The hyperparameters must consist of a list of predetermined, comma-separated integer values.

You need to import the class from the `azure.ai.ml.sweep` package used to create the list of values.

Which class should you import?

- A. Choice
- B. Randint
- C. Uniform
- D. Normal

Correct Answer: A

Define the search space

Tune hyperparameters by exploring the range of values defined for each hyperparameter.

Hyperparameters can be discrete or continuous, and has a distribution of values described by a parameter expression.

Discrete hyperparameters



Discrete hyperparameters are specified as a Choice among discrete values. Choice can be:

one or more comma-separated values

a range object

any arbitrary list object

Example:

```
from azure.ai.ml.sweep import Choice

command_job_for_sweep = command_job(
    batch_size=Choice(values=[16, 32, 64, 128]),
    number_of_hidden_layers=Choice(values=range(1,5)),
)
```

Reference:

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-tune-hyperparameters>

QUESTION 3

HOTSPOT

You are using Azure Machine Learning to train machine learning models. You need to compute target on which to remotely run the training script.

You run the following Python code:

```
from azureml.core.compute import ComputeTarget, AmlCompute
from azureml.core.compute_target import ComputeTargetException
the_cluster_name = "NewCompute"
config = AmlCompute.provisioning_configuration(vm_size= 'STANDARD_D2', max_nodes=3)
the_cluster = ComputeTarget.create(ws, the_cluster_name, config)
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:



	Yes	No
The compute is created in the same region as the Machine learning service workspace.	<input type="radio"/>	<input type="radio"/>
The compute resource created by the code is displayed as a compute cluster in Azure Machine Learning studio	<input type="radio"/>	<input type="radio"/>
The minimum number of nodes will be zero	<input type="radio"/>	<input type="radio"/>

Correct Answer:

	Yes	No
The compute is created in the same region as the Machine learning service workspace.	<input checked="" type="radio"/>	<input type="radio"/>
The compute resource created by the code is displayed as a compute cluster in Azure Machine Learning studio	<input checked="" type="radio"/>	<input type="radio"/>
The minimum number of nodes will be zero	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes

The compute is created within your workspace region as a resource that can be shared with other users.

Box 2: Yes

It is displayed as a compute cluster.

View compute targets

1.

To see all compute targets for your workspace, use the following steps:

2.

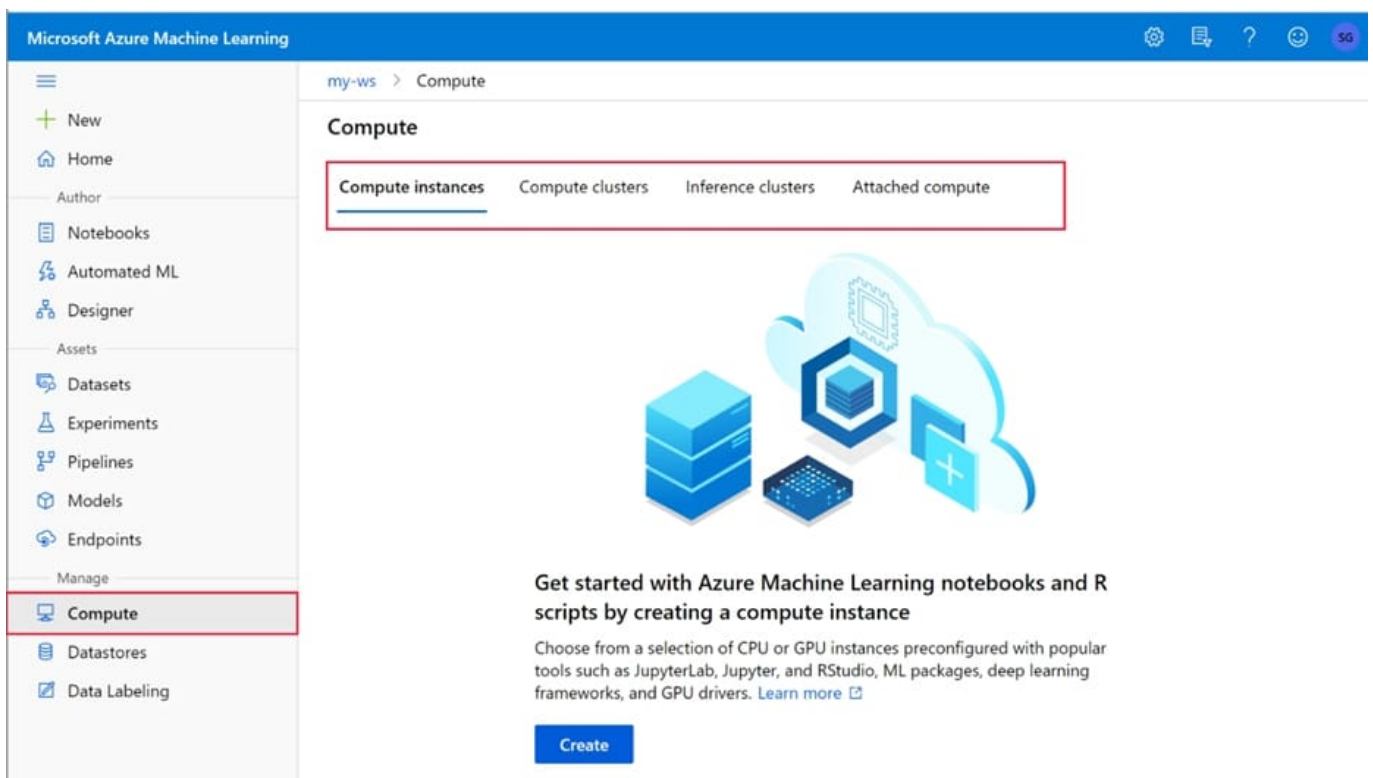
Navigate to Azure Machine Learning studio.

3.

Under Manage, select Compute.

4.

Select tabs at the top to show each type of compute target.



Box 3: Yes

min_nodes is not specified, so it defaults to 0.

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.compute.amlcompute.amlcomputeprovisioningconfiguration>

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-create-attach-compute-studio>

QUESTION 4

DRAG DROP

An organization uses Azure Machine Learning service and wants to expand their use of machine learning.

You have the following compute environments. The organization does not want to create another compute environment.

Environment name	Compute type
nb_server	Compute Instance
aks_cluster	Azure Kubernetes Service
mlc_cluster	Machine Learning Compute

You need to determine which compute environment to use for the following scenarios.



Which compute types should you use? To answer, drag the appropriate compute environments to the correct scenarios. Each compute environment may be used once, more than once, or not at all. You may need to drag the split bar between

panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Environments

-
-
-

Answer Area

Scenario

- Run an Azure Machine Learning Designer training pipeline.
- Deploying a web service from the Azure Machine Learning designer.

Environment

-
-

Correct Answer:

Environments

-
-
-

Answer Area

Scenario

- Run an Azure Machine Learning Designer training pipeline.
- Deploying a web service from the Azure Machine Learning designer.

Environment

-
-

Box 1: nb_server



Training targets	Automated ML	ML pipelines	Azure Machine Learning designer
Local computer	yes		
Azure Machine Learning compute cluster	yes & hyperparameter tuning	yes	yes
Azure Machine Learning compute instance	yes & hyperparameter tuning	yes	yes
Remote VM	yes & hyperparameter tuning	yes	
Azure Databricks	yes (SDK local mode only)	yes	
Azure Data Lake Analytics		yes	
Azure HDInsight		yes	
Azure Batch		yes	

Box 2: mlc_cluster With Azure Machine Learning, you can train your model on a variety of resources or environments, collectively referred to as compute targets. A compute target can be a local machine or a cloud resource, such as an Azure Machine Learning Compute, Azure HDInsight or a remote virtual machine.

Reference: <https://docs.microsoft.com/en-us/azure/machine-learning/concept-compute-target>

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-set-up-training-targets>

QUESTION 5

You are performing feature engineering on a dataset.

You must add a feature named CityName and populate the column value with the text London.

You need to add the new feature to the dataset.

Which Azure Machine Learning Studio module should you use?



- A. Extract N-Gram Features from Text
- B. Edit Metadata
- C. Preprocess Text
- D. Apply SQL Transformation

Correct Answer: B

Typical metadata changes might include marking columns as features.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/edit-metadata>

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