DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

You create and register a model in an Azure Machine Learning workspace.

You must use the Azure Machine Learning SDK to implement a batch inference pipeline that uses a ParallelRunStepto score input data using the model. You must specify a value for the ParallelRunConfig compute_targetsetting

of the pipeline step.

You need to create the compute target.

Which class should you use?

A. BatchCompute

B. AdlaCompute

C. AmlCompute

D. AksCompute

Correct Answer: C

Compute target to use for ParallelRunStep. This parameter may be specified as a compute target object or the string name of a compute target in the workspace. The compute_target target is of AmlCompute or string.

Note: An Azure Machine Learning Compute (AmlCompute) is a managed-compute infrastructure that allows you to easily create a single or multi-node compute. The compute is created within your workspace region as a resource that can be shared with other users

Reference: https://docs.microsoft.com/en-us/python/api/azureml-contrib-pipeline-steps/azureml.contrib.pipeline.steps.parallelrunconfig https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.compute.amlcompute(class)

QUESTION 2

You want to train a classification model using data located in a comma-separated values (CSV) file.

The classification model will be trained via the Automated Machine Learning interface using the Classification task type.

You have been informed that only linear models need to be assessed by the Automated Machine Learning.

Which of the following actions should you take?

A. You should disable deep learning.

B. You should enable automatic featurization.

C. You should disable automatic featurization.

D. You should set the task type to Forecasting.

Correct Answer: C

Reference: https://econml.azurewebsites.net/spec/estimation/dml.html

https://docs.microsoft.com/en-us/azure/machine-learning/how-to-use-automated-ml-for-ml-models

QUESTION 3

HOTSPOT

You create a script for training a machine learning model in Azure Machine Learning service.

You create an estimator by running the following code:

```
from azureml.core import Workspace, Datastore
from azureml.core.compute import ComputeTarget
from azureml.train.estimator import Estimator
work_space = Workspace.from_config()
data_source = work_space.get_default_datastore()
train_cluster = ComputeTarget(workspace=work_space, name= 'train-cluster')
estimator = Estimator(source_directory =
  'training-experiment',
script_params = { ' --data-folder' : data_source.as_mount(), ' --regularization':0.8},
compute_target = train_cluster,
entry_script = 'train.py',
conda_packages = ['scikit-learn'])
```

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:

Answer Area

	Yes	No
The estimator will look for the files it needs to run an experiment in the training-experiment directory of the local compute environment.	O	O
The estimator will mount the local data-folder folder and make it available to the script through a parameter.	O	O
The train.py script file will be created if it does not exist.	O	O
The estimator can run Scikit-learn experiments.	O	O

Correct Answer:

Answer Area

	Yes	No
The estimator will look for the files it needs to run an experiment in the training-experiment directory of the local compute environment.	◉	○
The estimator will mount the local data-folder folder and make it available to the script through a parameter.	◉	○
The train.py script file will be created if it does not exist.	○	◉
The estimator can run Scikit-learn experiments.	◉	○

Box 1: Yes

Parameter source_directory is a local directory containing experiment configuration and code files needed for a training job.

Box 2: Yes

script_params is a dictionary of command-line arguments to pass to the training script specified in entry_script.

Box 3: No

Box 4: Yes

The conda_packages parameter is a list of strings representing conda packages to be added to the Python environment for the experiment.

QUESTION 4

HOTSPOT

You are preparing to use the Azure ML SDK to run an experiment and need to create compute. You run the following code:

```
from azureml.core.compute import ComputeTarget, AmlCompute
from azureml.core.compute_target import ComputeTargetException
ws = Workspace.from_config()
cluster_name = 'aml-cluster'
try:
    training_compute = ComputeTarget(workspace=ws, name=cluster_name)
except ComputeTargetException:
    compute_config = AmlCompute.provisioning_configuration(vm_size='STANDARD_D2_V2', vm_priority='lowpriority',
max_nodes=4)
    training_compute = ComputeTarget.create(ws, cluster_name, compute_config)
    training_compute.wait_for_completion(show_output=True)
```

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
If a training cluster named aml-cluster already exists in the workspace, it will be deleted and replaced.	○	○
The `wait_for_completion()` method will not return until the aml-cluster compute has four active nodes.	○	○
If the code creates a new aml-cluster compute target, it may be preempted due to capacity constraints.	○	○
The aml-cluster compute target is deleted from the workspace after the training experiment completes.	○	○

Correct Answer:

	Yes	No
If a training cluster named aml-cluster already exists in the workspace, it will be deleted and replaced.	○	◉
The `wait_for_completion()` method will not return until the aml-cluster compute has four active nodes.	◉	○
If the code creates a new aml-cluster compute target, it may be preempted due to capacity constraints.	◉	○
The aml-cluster compute target is deleted from the workspace after the training experiment completes.	○	◉

Box 1: No

If a training cluster already exists it will be used.

Box 2: Yes

The wait_for_completion method waits for the current provisioning operation to finish on the cluster.

Box 3: Yes

Low Priority VMs use Azure\'s excess capacity and are thus cheaper but risk your run being pre-empted.

Box 4: No

Need to use training_compute.delete() to deprovision and delete the AmlCompute target.

Reference:

https://notebooks.azure.com/azureml/projects/azureml-getting-started/html/how-to-use-azureml/training/train-on-

amlcompute/train-on-amlcompute.ipynb

https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.compute.computetarget

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QUESTION 5

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 in the review screen.

You train and register a machine learning model.

You plan to deploy the model as a real-time web service. Applications must use key-based authentication to use the model.

You need to deploy the web service.

Solution:

Create an AksWebservice instance.

Set the value of the auth_enabled property to False.

Set the value of the token_auth_enabled property to True.

Deploy the model to the service.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use only auth_enabled = TRUE

Note: Key-based authentication.

Web services deployed on AKS have key-based auth enabled by default. ACI-deployed services have key-based auth disabled by default, but you can enable it by setting auth_enabled = TRUE when creating the ACI web service. The

following is an example of creating an ACI deployment configuration with key-based auth enabled.

deployment_config