DP-100^{Q&As}

Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

HOTSPOT

You use an Azure Machine Learning workspace.

You create the following Python code:

```
from azureml.core import ScriptRunConfig
src = ScriptRunConfig(source_directory=project_folder,
                      script='train.py'
                      environment=myenv)
```

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

Statements	Yes	No
The default environment will be created	○	○
The training script will run on local compute	○	○
A script run configuration runs a training script named `train.py` located in a directory defined by the `project_folder` variable	○	○

Correct Answer:

Answer Area

Statements	Yes	No
The default environment will be created	○	●
The training script will run on local compute	●	○
A script run configuration runs a training script named `train.py` located in a directory defined by the `project_folder` variable	●	○

Box 1: No

Environment is a required parameter. The environment to use for the run. If no environment is specified, azureml.core.runconfig.DEFAULT_CPU_IMAGE will be used as the Docker image for the run.

The following example shows how to instantiate a new environment. from azureml.core import Environment myenv = Environment(name="myenv")

Box 2: Yes

Parameter compute_target: The compute target where training will happen. This can either be a ComputeTarget object, the name of an existing ComputeTarget, or the string "local". If no compute target is specified, your local machine will be

used.

Box 3: Yes

Parameter source_directory. A local directory containing code files needed for a run.

Parameter script. The file path relative to the source_directory of the script to be run.

Reference:

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

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

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QUESTION 2

You plan to use a Data Science Virtual Machine (DSVM) with the open source deep learning frameworks Caffe2 and PyTorch.

You need to select a pre-configured DSVM to support the frameworks.

What should you create?

A. Data Science Virtual Machine for Windows 2012

B. Data Science Virtual Machine for Linux (CentOS)

C. Geo AI Data Science Virtual Machine with ArcGIS

D. Data Science Virtual Machine for Windows 2016

E. Data Science Virtual Machine for Linux (Ubuntu)

Correct Answer: E

Caffe2 and PyTorch is supported by Data Science Virtual Machine for Linux. Microsoft offers Linux editions of the DSVM on Ubuntu 16.04 LTS and CentOS 7.4. Only the DSVM on Ubuntu is preconfigured for Caffe2 and PyTorch. Incorrect Answers:

D: Caffe2 and PytOCH are only supported in the Data Science Virtual Machine for Linux.

References: https://docs.microsoft.com/en-us/azure/machine-learning/data-science-virtual-machine/overview

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QUESTION 3

You are developing a hands-on workshop to introduce Docker for Windows to attendees.

You need to ensure that workshop attendees can install Docker on their devices.

Which two prerequisite components should attendees install on the devices? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Microsoft Hardware-Assisted Virtualization Detection Tool

B. Kitematic

C. BIOS-enabled virtualization

D. VirtualBox

E. Windows 10 64-bit Professional

Correct Answer: CE

C: Make sure your Windows system supports Hardware Virtualization Technology and that virtualization is enabled. Ensure that hardware virtualization support is turned on in the BIOS settings. For example:

E: To run Docker, your machine must have a 64-bit operating system running Windows 7 or higher.

References:

https://docs.docker.com/toolbox/toolbox_install_windows/

https://blogs.technet.microsoft.com/canitpro/2015/09/08/step-by-step-enabling-hyper-v-for-use-on- windows-10/

QUESTION 4

HOTSPOT

You register the following versions of a model.

Model name	Model version	Tags	Properties
healthcare_model	3	'Training context':'CPU Compute'	value:87.43
healthcare_model	2	'Training context':'CPU Compute'	value:54.98
healthcare_model	1	'Training context':'CPU Compute'	value:23.56

You use the Azure ML Python SDK to run a training experiment. You use a variable named run to reference the experiment run. After the run has been submitted and completed, you run the following code:

```
run.register_model(model_path='outputs/model.pkl',
 model_name='healthcare_model',
 tags={'Training context':'CPU Compute'} )
```

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 code will cause a previous version of the saved model to be overwritten.	○	○
The version number will now be 4.	○	○
The latest version of the stored model will have a property of value: 87.43.	○	○

Correct Answer:

	Yes	No
The code will cause a previous version of the saved model to be overwritten.	○	●
The version number will now be 4.	●	○
The latest version of the stored model will have a property of value: 87.43.	○	●

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/how-to-deploy-and-where

QUESTION 5

HOTSPOT

You plan to use Hyperdrive to optimize the hyperparameters selected when training a model. You create the following code to define options for the hyperparameter experiment:

```
import azureml.train.hyperdrive.parameter_expressions as pe
from azureml.train.hyperdrive import GridParameterSampling, HyperDriveConfig

param_sampling = GridParameterSampling({
   "max_depth" : pe.choice(6, 7, 8, 9),
   "learning_rate" : pe.choice(0.05, 0.1, 0.15)
   })
hyperdrive_run_config = HyperDriveConfig(
   estimator = estimator,
   hyperparameter_sampling = param_sampling,
   policy = None,
   primary_metric_name = "auc",
   primary_metruc_goal = PrimaryMetricGoal.MAXIMIZE,
   max_total_runs = 50,
   max_concurrent_runs = 4)
```

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
There will be 50 runs for this hyperparameter tuning experiment.	O	O
You can use the policy parameter in the HyperDriveConfig class to specify a security policy.	O	O
The experiment will create a run for every possible value for the learning rate parameter between 0.05 and 0.15.	O	O

Correct Answer:

Answer Area

	Yes	No
There will be 50 runs for this hyperparameter tuning experiment.	○	●
You can use the policy parameter in the HyperDriveConfig class to specify a security policy.	●	○
The experiment will create a run for every possible value for the learning rate parameter between 0.05 and 0.15.	○	●

Box 1: No

max_total_runs (50 here)

The maximum total number of runs to create. This is the upper bound; there may be fewer runs when the sample space is smaller than this value.

Box 2: Yes

Policy EarlyTerminationPolicy

The early termination policy to use. If None - the default, no early termination policy will be used.

Box 3: No

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

1.

one or more comma-separated values

2.

a range object

3.

any arbitrary list object

Reference: https://docs.microsoft.com/en-us/python/api/azureml-train-core/azureml.train.hyperdrive.hyperdriveconfig https://docs.microsoft.com/en-us/azure/machine-learning/how-to-tune-hyperparameters

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