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Implementing a Data Science Solution on Azure (DP-100) exam questions are a great way to prepare for the Microsoft DP-100 exam dumps.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q236-Q241):

NEW QUESTION # 236

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 create a model to forecast weather conditions based on historical data.

You need to create a pipeline that runs a processing script to load data from a datastore and pass the processed data to a machine learning model training script.

Solution: Run the following code:

```
datastore = ws.get_default_datastore()
data_input = PipelineData("raw_data", datastore=rawdatastore)
data_output = PipelineData("processed_data", datastore=datastore)
process_step = PythonScriptStep(script_name="process.py",
    arguments=["--data_for_train", data_input],
    outputs=[data_output], compute_target=aml_compute,
    source_directory=process_directory)
train_step = PythonScriptStep(script_name="train.py",
    arguments=["--data_for_train", data_input], inputs=[data_output],
    compute_target=aml_compute, source_directory=train_directory)
pipeline = Pipeline(workspace=ws, steps=[process_step, train_step])
```

Does the solution meet the goal?

- A. No
- B. Yes

Answer: A

Explanation:

Note: Data used in pipeline can be produced by one step and consumed in another step by providing a PipelineData object as an output of one step and an input of one or more subsequent steps.

Compare with this example, the pipeline train step depends on the process_step_output output of the pipeline process step:

```
from azureml.pipeline.core import Pipeline, PipelineData
```

```
from azureml.pipeline.steps import PythonScriptStep
```

```
datastore = ws.get_default_datastore()
```

```
process_step_output = PipelineData("processed_data", datastore=datastore) process_step =
```

```
PythonScriptStep(script_name="process.py", arguments=["--data_for_train", process_step_output], outputs=
```

```
[process_step_output], compute_target=aml_compute, source_directory=process_directory) train_step =
```

```
PythonScriptStep(script_name="train.py", arguments=["--data_for_train", process_step_output], inputs=[process_step_output],
```

```
compute_target=aml_compute, source_directory=train_directory) pipeline = Pipeline(workspace=ws, steps=[process_step,
```

```
train_step]) Reference:
```

[https://docs.microsoft.com/en-us/python/api/azureml-pipeline-core/azureml.pipeline.core.pipelinedata?](https://docs.microsoft.com/en-us/python/api/azureml-pipeline-core/azureml.pipeline.core.pipelinedata?view=azure-ml-py)

[view=azure-ml-py](https://docs.microsoft.com/en-us/python/api/azureml-pipeline-core/azureml.pipeline.core.pipelinedata?view=azure-ml-py)

NEW QUESTION # 237

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. VirtualBox
- B. BIOS-enabled virtualization
- C. Windows 10 64-bit Professional
- D. Kitematic
- E. Microsoft Hardware-Assisted Virtualization Detection Tool

Answer: B,C

Explanation:

Explanation

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/>

NEW QUESTION # 238

You have an Azure Machine Learning workspace. You are running an experiment on your local computer.

You need to use MLflow Tracking to store metrics and artifacts from your local experiment runs in the workspace.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Actions

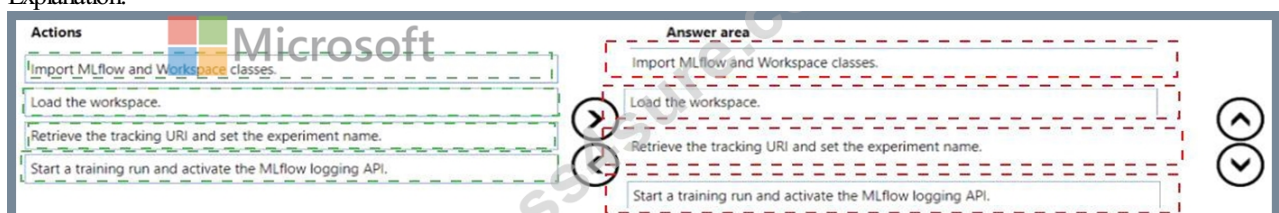
- Import MLflow and Workspace classes.
- Load the workspace.
- Retrieve the tracking URI and set the experiment name.
- Start a training run and activate the MLflow logging API.

Answer area

- Import MLflow and Workspace classes.
- Load the workspace.
- Retrieve the tracking URI and set the experiment name.
- Start a training run and activate the MLflow logging API.

Answer:

Explanation:



Explanation:
Actions



Answer area

1. Import MLflow and Workspace classes.
2. Load the workspace.
3. Retrieve the tracking URI and set the experiment name.
4. Start a training run and activate the MLflow logging API.

NEW QUESTION # 239

You use Azure Machine Learning to implement hyperparameter tuning for an Azure ML Python SDK v2-based model training. Training runs must terminate when the primary metric is lowered by 25 percent or more compared to the best performing run. You need to configure an early termination policy to terminate training jobs.

Which values should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Microsoft

Early termination policy setting

Termination policy type

Termination policy parameter

Value

Bandit	▼
Bandit	
Median stopping	
Truncation selection	
slack_factor	▼
max_value	
slack_factor	
truncation_percentage	

Answer:

Explanation:

Answer Area



Microsoft

Early termination policy setting

Termination policy type

Termination policy parameter

Value

Bandit	▼
Bandit	
Median stopping	
Truncation selection	
slack_factor	▼
max_value	
slack_factor	
truncation_percentage	

NEW QUESTION # 240

You create machine learning models by using Azure Machine Learning.

You plan to train and score models by using a variety of compute contexts. You also plan to create a new compute resource in Azure Machine Learning studio.

You need to select the appropriate compute types.

Which compute types should you select? To answer, drag the appropriate compute types to the correct requirements. Each

compute type 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.

Compute types

- Attached compute
- Inference cluster
- Training cluster



Answer Area

Requirement

- Train models by using the Azure Machine Learning designer.
- Score new data through a trained model published as a real-time web service.
- Train models by using an Azure Databricks cluster.
- Deploy models by using the Azure Machine Learning designer.

Compute type

Compute type

Compute type

Compute type

Compute type

Answer:

Explanation:

Compute types

- Attached compute
- Inference cluster
- Training cluster



Answer Area

Requirement

- Train models by using the Azure Machine Learning designer.
- Score new data through a trained model published as a real-time web service.
- Train models by using an Azure Databricks cluster.
- Deploy models by using the Azure Machine Learning designer.

Compute type

Attached compute

Inference cluster

Training cluster

Attached compute

Explanation

Requirement

- Train models by using the Azure Machine Learning designer.
- Score new data through a trained model published as a real-time web service.
- Train models by using an Azure Databricks cluster.
- Deploy models by using the Azure Machine Learning designer.

Compute type

Attached compute

Inference cluster

Training cluster

Attached compute

Box 1: Attached compute

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

Box 2: Inference cluster

Box 3: Training cluster

Box 4: Attached compute

NEW QUESTION # 241

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