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>> **New APP DP-100 Simulations** <<

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q69-Q74):

NEW QUESTION # 69

You use the Azure Machine Learning SDK in a notebook to run an experiment using a script file in an experiment folder. The experiment fails.

You need to troubleshoot the failed experiment.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

- A. Use the `get_details_with_logs()` method of the run object to display the experiment run logs.
- B. Use the `get_output()` method of the run object to retrieve the experiment run logs.
- C. View the logs for the experiment run in Azure Machine Learning studio.
- D. Use the `get_metrics()` method of the run object to retrieve the experiment run logs.
- E. View the log files for the experiment run in the experiment folder.

Answer: A,C

Explanation:

Use `get_details_with_logs()` to fetch the run details and logs created by the run.

You can monitor Azure Machine Learning runs and view their logs with the Azure Machine Learning studio.

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-pipeline-core/azureml.pipeline.core.steprun>

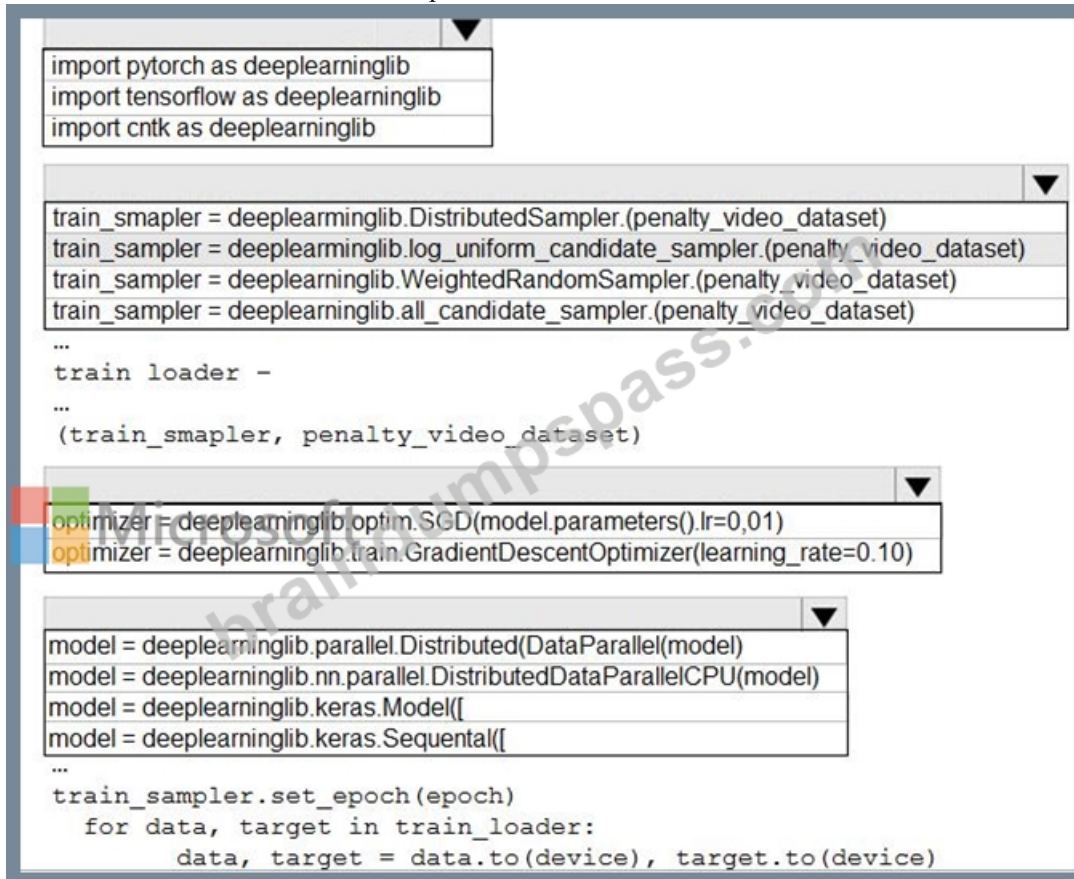
<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-monitor-view-training-logs>

NEW QUESTION # 70

You need to use the Python language to build a sampling strategy for the global penalty detection models.

How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



The screenshot shows a code editor with the following Python code segment:

```
import pytorch as deeplearninglib
import tensorflow as deeplearninglib
import cntk as deeplearninglib

train_smampler = deeplearninglib.DistributedSampler(penalty_video_dataset)
train_sampler = deeplearninglib.log_uniform_candidate_sampler(penalty_video_dataset)
train_sampler = deeplearninglib.WeightedRandomSampler(penalty_video_dataset)
train_sampler = deeplearninglib.all_candidate_sampler(penalty_video_dataset)

...
train_loader =
...
(train_smampler, penalty_video_dataset)

optimizer = deeplearninglib.optim.SGD(model.parameters(), lr=0.01)
optimizer = deeplearninglib.train.GradientDescentOptimizer(learning_rate=0.10)

model = deeplearninglib.parallel.Distributed(DataParallel(model))
model = deeplearninglib.nn.parallel.DistributedDataParallelCPU(model)
model = deeplearninglib.keras.Model([
model = deeplearninglib.keras.Sequential([
...
train_sampler.set_epoch(epoch)
for data, target in train_loader:
    data, target = data.to(device), target.to(device)
```

The code editor has four dropdown menus for completion:

- Dropdown 1: `import pytorch as deeplearninglib`, `import tensorflow as deeplearninglib`, `import cntk as deeplearninglib`
- Dropdown 2: `train_smampler = deeplearninglib.DistributedSampler(penalty_video_dataset)`, `train_sampler = deeplearninglib.log_uniform_candidate_sampler(penalty_video_dataset)`, `train_sampler = deeplearninglib.WeightedRandomSampler(penalty_video_dataset)`, `train_sampler = deeplearninglib.all_candidate_sampler(penalty_video_dataset)`
- Dropdown 3: `optimizer = deeplearninglib.optim.SGD(model.parameters(), lr=0.01)`, `optimizer = deeplearninglib.train.GradientDescentOptimizer(learning_rate=0.10)`
- Dropdown 4: `model = deeplearninglib.parallel.Distributed(DataParallel(model))`, `model = deeplearninglib.nn.parallel.DistributedDataParallelCPU(model)`, `model = deeplearninglib.keras.Model([`, `model = deeplearninglib.keras.Sequential([`

Answer:

Explanation:

```

import torch as deeplearninglib
import tensorflow as deeplearninglib
import cntk as deeplearninglib

train_sampler = deeplearninglib.DistributedSampler(penalty_video_dataset)
train_sampler = deeplearninglib.log_uniform_candidate_sampler(penalty_video_dataset)
train_sampler = deeplearninglib.WeightedRandomSampler(penalty_video_dataset)
train_sampler = deeplearninglib.all_candidate_sampler(penalty_video_dataset)
...
train_loader =
...
(train_sampler, penalty_video_dataset)

optimizer = deeplearninglib.optim.SGD(model.parameters(), lr=0.01)
optimizer = deeplearninglib.train.GradientDescentOptimizer(learning_rate=0.10)

model = deeplearninglib.parallel.Distributed(DataParallel(model))
model = deeplearninglib.nn.parallel.DistributedDataParallelCPU(model)
model = deeplearninglib.keras.Model({
model = deeplearninglib.keras.Sequential({
...
train_sampler.set_epoch(epoch)
for data, target in train_loader:
    data, target = data.to(device), target.to(device)

```

NEW QUESTION # 71

You deploy a model in Azure Container Instance.

You must use the Azure Machine Learning SDK to call the model API.

You need to invoke the deployed model using native SDK classes and methods.

How should you complete the command? To answer, select the appropriate options in the answer areas.

NOTE: Each correct selection is worth one point.

```
from azureml.core import Workspace
```

```

from azureml.core.webservice import requests
from azureml.core.webservice import Webservice
from azureml.core.webservice import LocalWebservice

```

```

import json
ws = Workspace.from_config()
service_name = "mlmodel1-service"
service = Webservice(name=service_name, workspace=ws)
x_new = [[2,101.5,1,24,21], [1,89.7,4,41,21]]
input_json = json.dumps({"data": x_new})

```

```

predictions = service.run(input_json)
predictions = requests.post(service.scoring_uri, input_json)
predictions = service.deserialize(ws, input_json)

```

Answer:

Explanation:

Explanation

```

from azureml.core import Workspace

from azureml.core.webservice import requests
from azureml.core.webservice import Webservice
from azureml.core.webservice import LocalWebservice

import json
ws = Workspace.from_config()
service_name = "mlmodel1-service"
service = Webservice(name=service_name, workspace=ws)
x_new = [[2,101.5,1,24,21], [1,89.7,4,41,21]]
input_json = json.dumps({"data": x_new})

predictions = service.run(input_json)
predictions = requests.post(service.scoring_uri, input_json)
predictions = service.deserialize(ws, input_json)

```

Box 1: from azureml.core.webservice import Webservice

The following code shows how to use the SDK to update the model, environment, and entry script for a web service to Azure Container Instances:

```

from azureml.core import Environment
from azureml.core.webservice import Webservice
from azureml.core.model import Model, InferenceConfig

```

Box 2: predictions = service.run(input_json)

Example: The following code demonstrates sending data to the service:

```

import json
test_sample = json.dumps({'data': [
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10],
[10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
]})
test_sample = bytes(test_sample, encoding='utf8')
prediction = service.run(input_data=test_sample)
print(prediction)

```

Reference:

<https://docs.microsoft.com/bs-latn-ba/azure/machine-learning/how-to-deploy-azure-container-instance>

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-troubleshoot-deployment>

NEW QUESTION # 72

You develop and train a machine learning model to predict fraudulent transactions for a hotel booking website.

Traffic to the site varies considerably. The site experiences heavy traffic on Monday and Friday and much lower traffic on other days. Holidays are also high web traffic days. You need to deploy the model as an Azure Machine Learning real-time web service endpoint on compute that can dynamically scale up and down to support demand. Which deployment compute option should you use?

- A. attached Azure Databricks cluster
- **B. Azure Kubernetes Service (AKS) inference cluster**
- C. Azure Container Instance (ACI)
- D. Azure Machine Learning Compute Instance
- E. attached virtual machine in a different region

Answer: B

NEW QUESTION # 73

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

Answer:

Explanation:

Explanation:

Box 1: Attached compute

Box 2: Inference cluster

Box 3: Training cluster

Box 4: Attached compute

NEW QUESTION # 74

.....

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