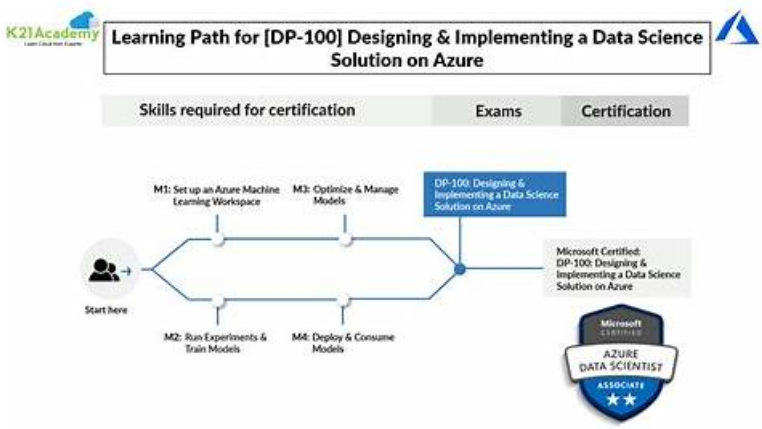
Microsoft DP-100 training and testing



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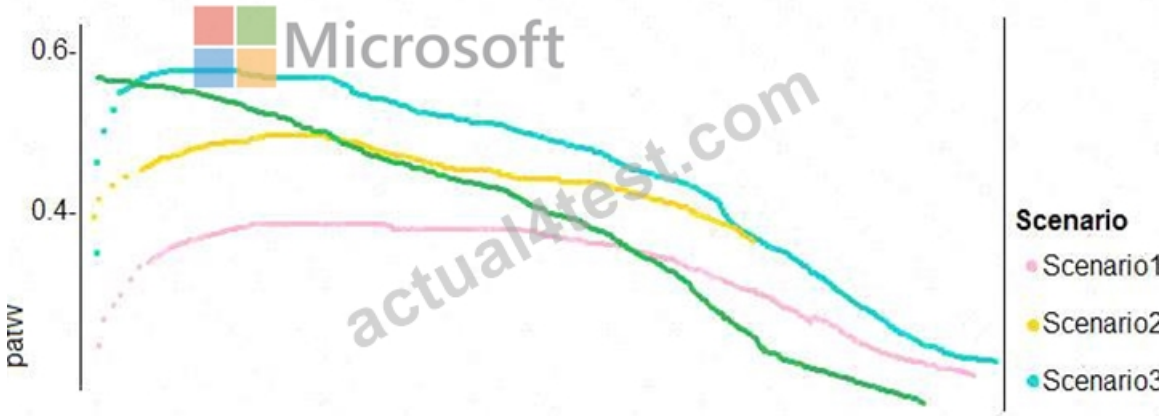
Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q183-Q188):

NEW QUESTION # 183
You need to implement a new cost factor scenario for the ad response models as illustrated in the performance curve exhibit.
Which technique should you use?

- A. Set the threshold to 0.5 and retrain if weighted Kappa deviates +/- 5% from 0.45.
- B. Set the threshold to 0.2 and retrain if weighted Kappa deviates +/- 5% from 0.6.
- C. Set the threshold to 0.05 and retrain if weighted Kappa deviates +/- 5% from 0.5.
- D. Set the threshold to 0.75 and retrain if weighted Kappa deviates +/- 5% from 0.15.

Answer: A

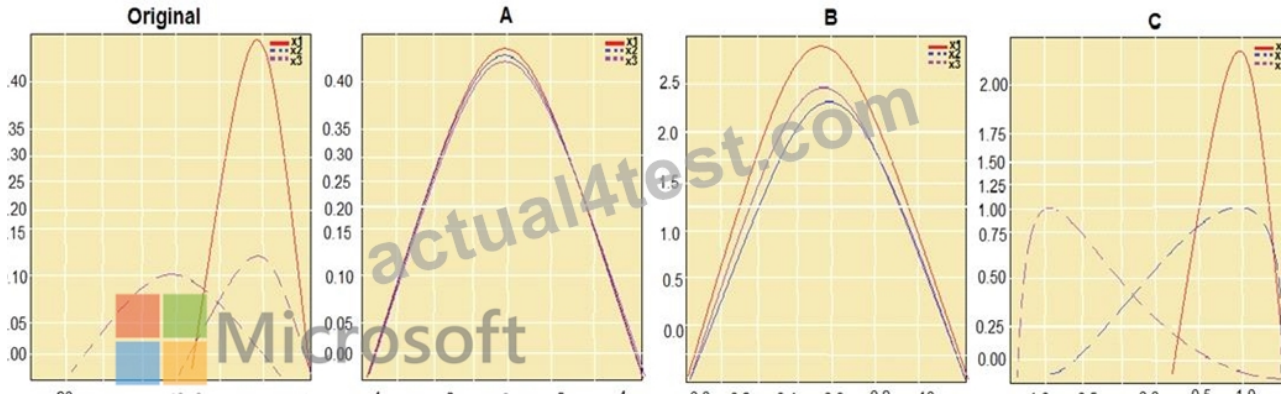
Explanation:
Scenario:
Performance curves of current and proposed cost factor scenarios are shown in the following diagram:



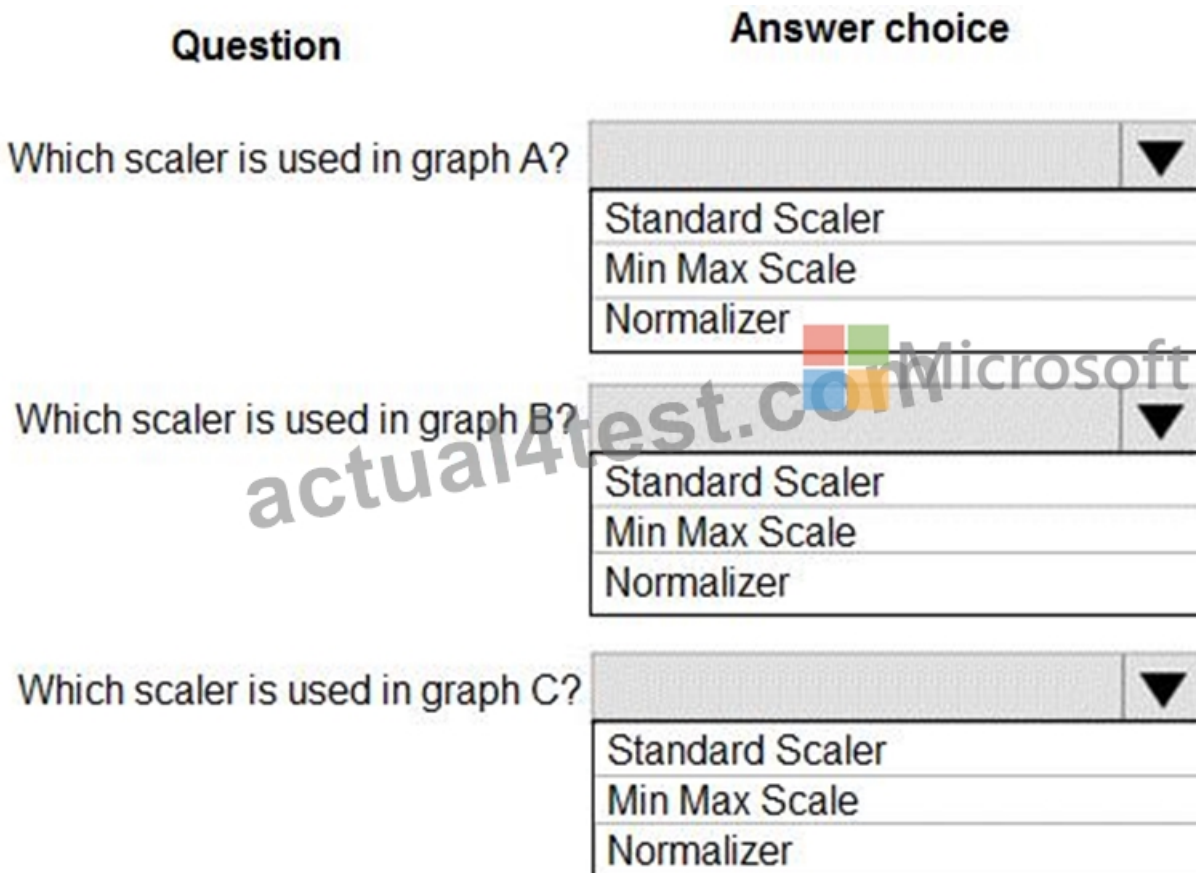
The ad propensity model uses a cut threshold is 0.45 and retrains occur if weighted Kappa deviated from 0.1 +/- 5%.

NEW QUESTION # 184

You are performing feature scaling by using the scikit-learn Python library for x.1 x2, and x3 features.
Original and scaled data is shown in the following image.

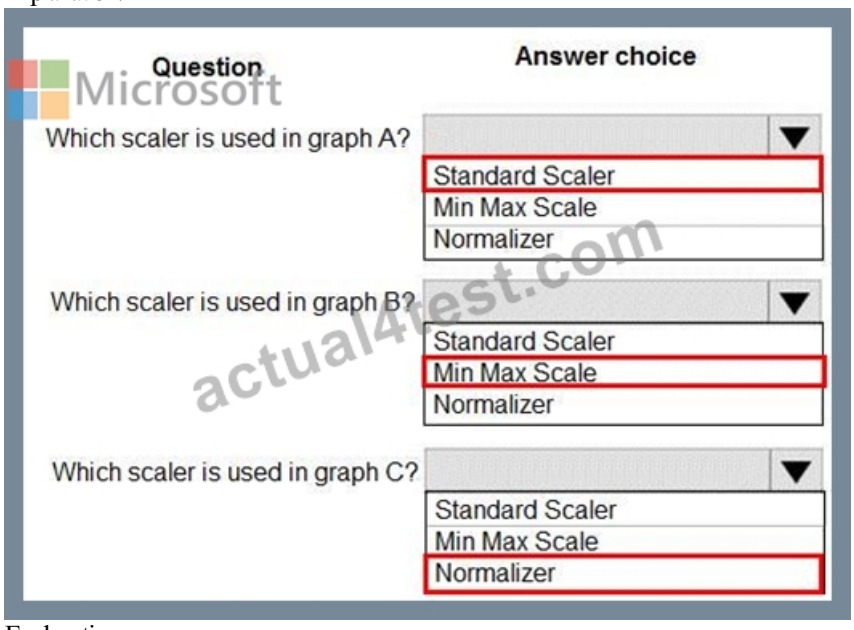


Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.



Answer:

Explanation:

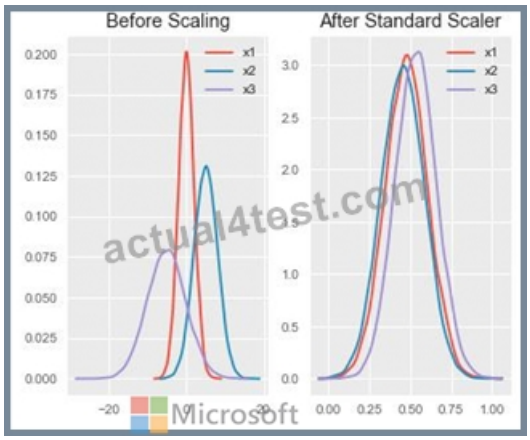


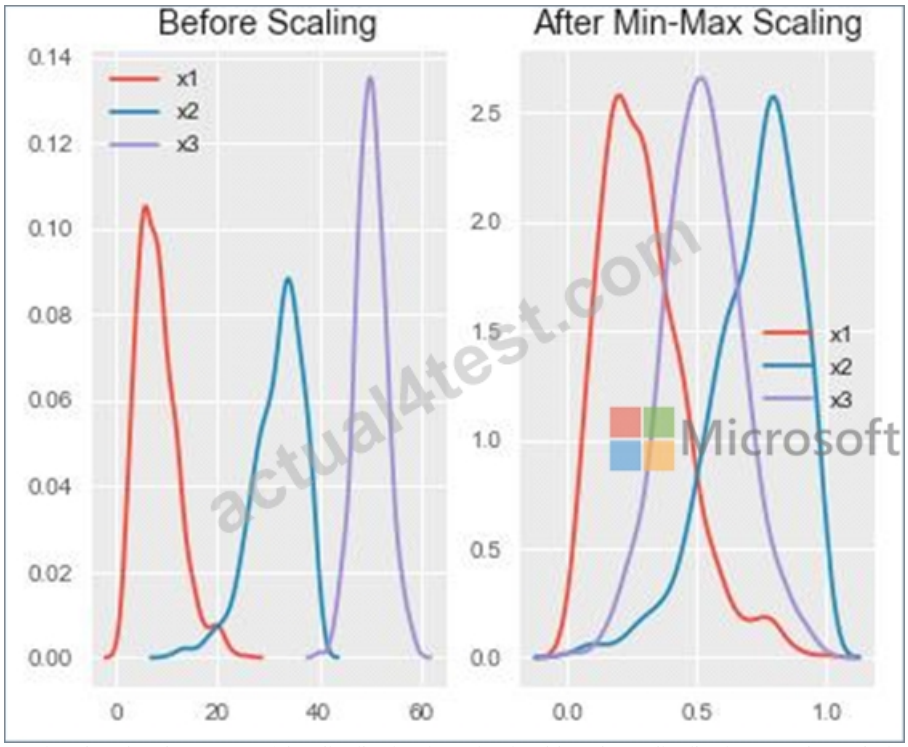
Explanation:

Box 1: StandardScaler

The StandardScaler assumes your data is normally distributed within each feature and will scale them such that the distribution is now centred around 0, with a standard deviation of 1.

Example:



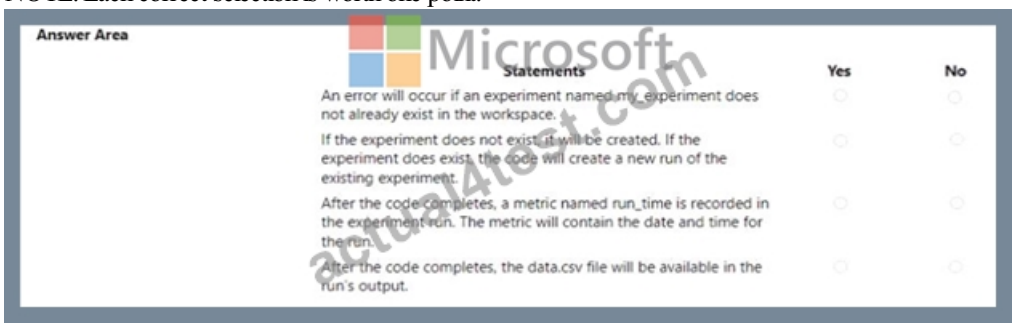
All features are now on the same scale relative to one another.
Box 2: Min Max Scaler


Notice that the skewness of the distribution is maintained but the 3 distributions are brought into the same scale so that they overlap.
Box 3: Normalizer
References:
http://benalexkeen.com/feature-scaling-with-scikit-learn/

NEW QUESTION # 185
You have an Azure Machine Learning workspace.
You run the following code in a Python environment in which the configuration file for your workspace has been downloaded.

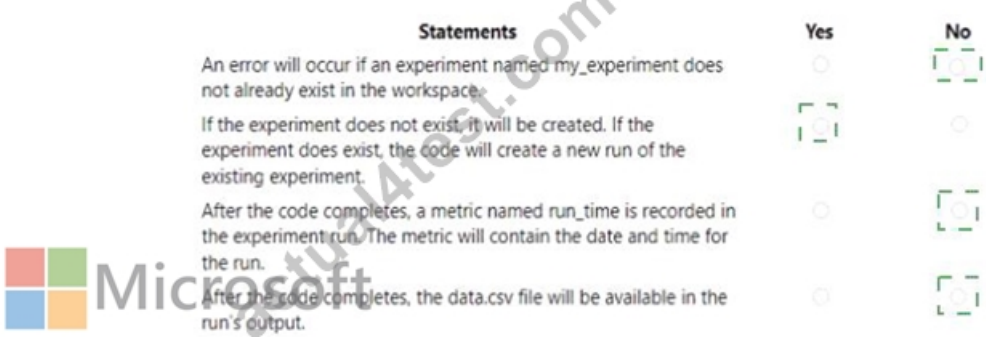
```
from azureml.core import Workspace
from azureml.core import Experiment
import pandas as pd
import datetime as dt
ws = Workspace.from_config()
experiment = Experiment(workspace=ws, name='my_experiment')
run = experiment.start_logging()
print('run_time', dt.datetime.now())

row_count = (len(data))
run.log('observations', row_count)
run.complete()
```

instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

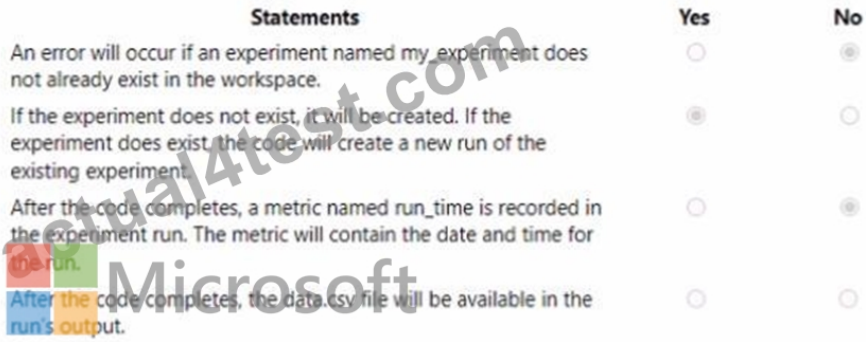


Answer:

Explanation:

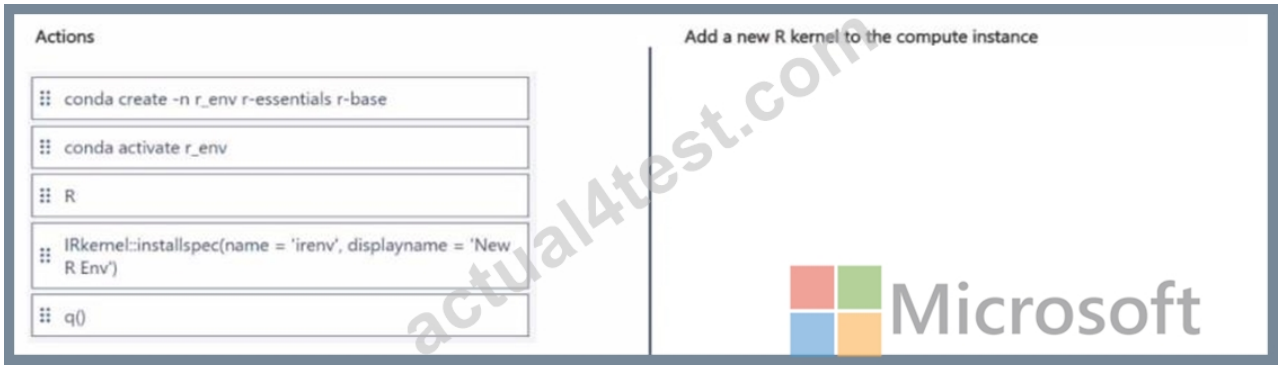


Explanation:



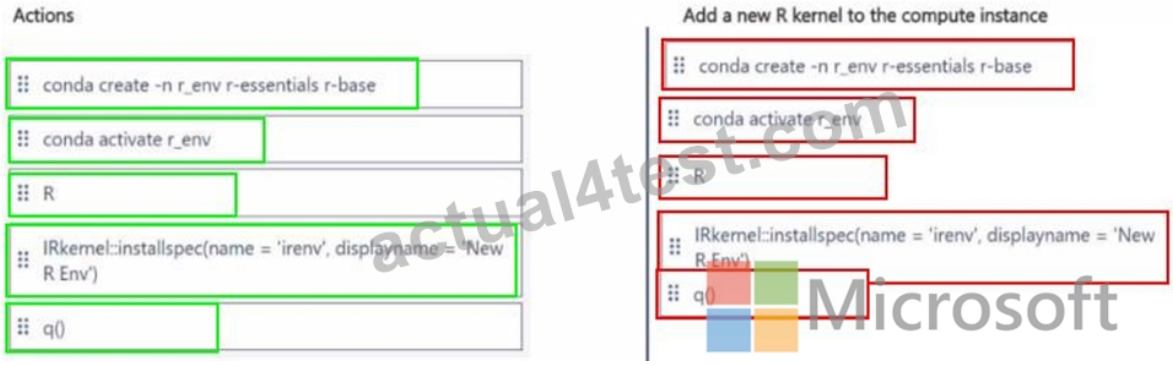
NEW QUESTION # 186
You have an Azure Machine Learning workspace.
You plan to use the terminal to configure a compute instance to run a notebook.
You need to add a new R kernel to the compute instance.
In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange

them in the correct order.



Answer:

Explanation:



NEW QUESTION # 187

You are a lead data scientist for a project that tracks the health and migration of birds. You create a multi-image classification deep learning model that uses a set of labeled bird photos collected by experts. You plan to use the model to develop a cross-platform mobile app that predicts the species of bird captured by app users.

You must test and deploy the trained model as a web service. The deployed model must meet the following requirements:

An authenticated connection must not be required for testing.

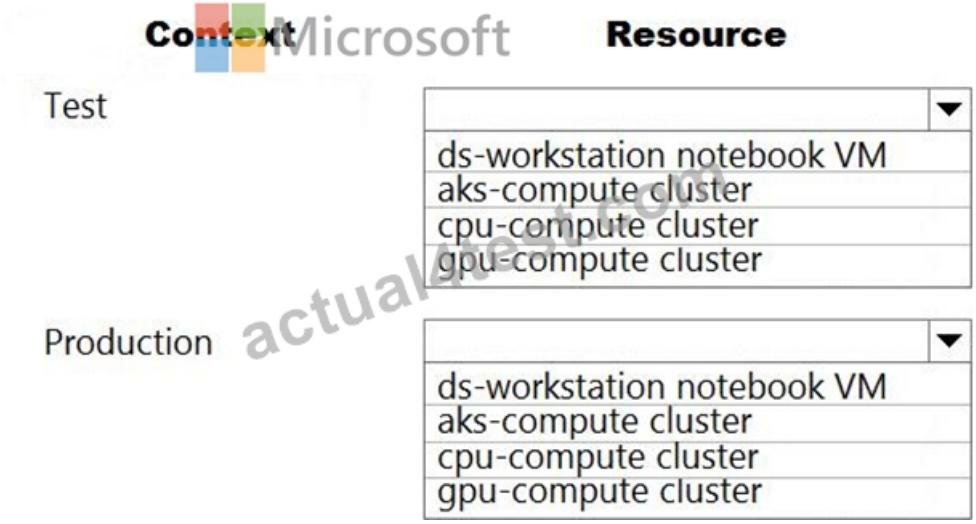
The deployed model must perform with low latency during inferencing.

The REST endpoints must be scalable and should have a capacity to handle large number of requests when multiple end users are using the mobile application.

You need to verify that the web service returns predictions in the expected JSON format when a valid REST request is submitted.

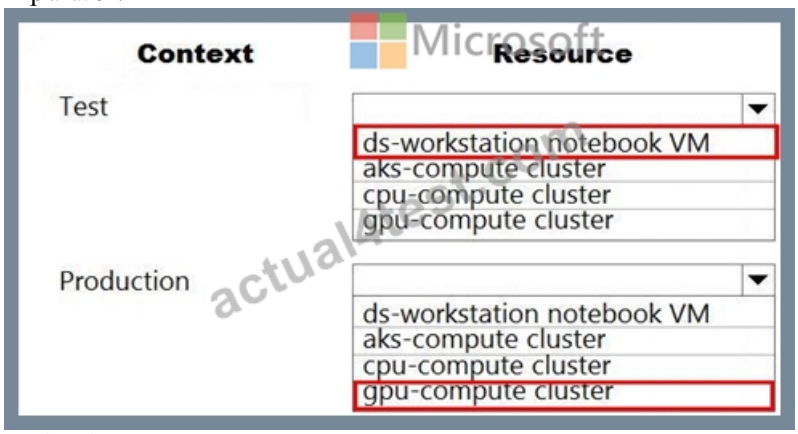
Which compute resources should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



Explanation:
Box 1: ds-workstation notebook VM
An authenticated connection must not be required for testing.
On a Microsoft Azure virtual machine (VM), including a Data Science Virtual Machine (DSVM), you create local user accounts while provisioning the VM. Users then authenticate to the VM by using these credentials.
Box 2: gpu-compute cluster
Image classification is well suited for GPU compute clusters
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/data-science-virtual-machine/dsvm-common-identity
https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/ai/training-deep-learning

NEW QUESTION # 188
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