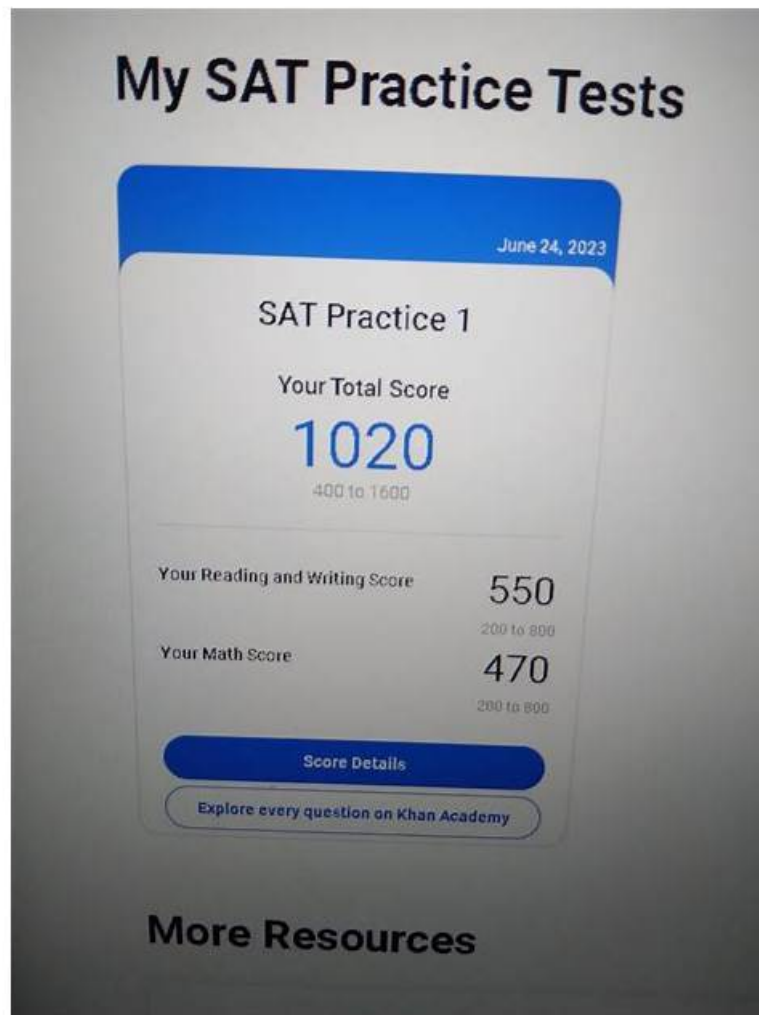


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cope with the fast changing trends in DP-100 certification programs.

## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q328-Q333):

### NEW QUESTION # 328

```
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.

**Answer Area**

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.

Yes ☒ No ☐

This is the Yes optThe estimator will look for the files it needs to run an experiment in the training-experiment directory of the local compute environment.

**Answer:**

**Explanation:**

**Answer Area**

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.

Yes ☒ No ☐

This is the Yes optThe estimator will look for the files it needs to run an experiment in the training-experiment directory of the local compute environment.

### NEW QUESTION # 329

You have an Azure Machine Learning workspace.

You have the following code:

```
command_job = command(
    code="./src",
    command="train.py",
    environment=env,
    compute="cpu-cluster",
)
```

You plan to rely on serverless compute to train a model by using Azure Machine Learning Python SDK v2.

The serverless compute must use a designated number of nodes of a specific virtual machine type.

You need to modify the code to run the training job according to the plan.

How should you modify the command object? To answer, select the appropriate oations in the answer area.

NOTE: Each correct selection is worth one point.

Command object configuration settings

#### Configuration

Use serverless compute.

Assign a specific number of vCPUs and the instances to serverless compute.



Microsoft

#### Setting

Set the compute parameter to "serverless".  
Remove the compute parameter.  
Set the compute parameter to "serverless".  
Set the default\_compute parameter to "serverless".

Add the resources parameter.  
Add the limits parameter.  
Add the resources parameter.  
Modify the value of the compute parameter.

**Answer:**

Explanation:

Command object configuration settings

#### Configuration

Use serverless compute.

Assign a specific number of vCPUs and the instances to serverless compute.



Microsoft

#### Setting

Set the compute parameter to "serverless".  
Remove the compute parameter.  
Set the compute parameter to "serverless".  
Set the default\_compute parameter to "serverless".

Add the resources parameter.  
Add the limits parameter.  
Add the resources parameter.  
Modify the value of the compute parameter.

Explanation:

Command object configuration settings

#### Configuration

Use serverless compute.

Assign a specific number of vCPUs and the instances to serverless compute.

#### Setting

Set the compute parameter to "serverless".  
Add the resources parameter.

### NEW QUESTION # 330

You create an Azure Machine Learning managed compute resource. The compute resource is configured as follows:

- Minimum nodes: 2
- Maximum nodes: 4

You must decrease the minimum number of nodes and increase the maximum number of nodes to the following values:

- Minimum nodes: 0
- Maximum nodes: 8

You need to reconfigure the compute resource.

Which three methods can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. MLClient class in Python SDK v2
- B. BuildContext class in Python SDK v2
- C. Azure CLI ml extension v2
- D. Azure Machine Learning studio
- E. Azure Machine Learning designer

**Answer: A,C,D**

Explanation:

The compute autoscales down to zero nodes when it isn't used. Dedicated VMs are created to run your jobs as needed. Use the following examples to create a compute cluster:

- Python SDK
- Azure CLI

- Studio

<https://learn.microsoft.com/en-us/azure/machine-learning/how-to-create-attach-compute-cluster?view=azureml-api-2&tabs=python#create>

### NEW QUESTION # 331

You use the following code to define the steps for a pipeline:

```
from azureml.core import Workspace, Experiment, Run
from azureml.pipeline.core import Pipeline
from azureml.pipeline.steps import PythonScriptStep
ws = Workspace.from_config()
```

...

```
step1 = PythonScriptStep(name='step1', ...)
```

```
step2 = PythonScriptStep(name='step2', ...)
```

```
pipeline_steps = [step1, step2]
```

You need to add code to run the steps.

Which two code segments can you use to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. `pipeline = Pipeline(workspace=ws, steps=pipeline_steps)`  
`run = pipeline.submit(experiment_name='pipeline-experiment')`
- B. `experiment = Experiment(workspace=ws, name='pipeline-experiment')`  
`run = experiment.submit(config=pipeline_steps)`
- C. `pipeline = Pipeline(workspace=ws, steps=pipeline_steps)`  
`experiment = Experiment(workspace=ws, name='pipeline-experiment')`  
`run = experiment.submit(pipeline)`
- D. `run = Run(pipeline_steps)`

**Answer: A,C**

Explanation:

After you define your steps, you build the pipeline by using some or all of those steps.

# Build the pipeline. Example:

```
pipeline1 = Pipeline(workspace=ws, steps=[compare_models])
```

# Submit the pipeline to be run

```
pipeline_run1 = Experiment(ws, 'Compare_Models_Exp').submit(pipeline1)
```

Reference:

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

### NEW QUESTION # 332

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.

Context	Resource
Test	<div> <div></div> <div> ds-workstation notebook VM  aks-compute cluster  cpu-compute cluster  gpu-compute cluster </div> </div>
Production	<div> <div></div> <div> ds-workstation notebook VM  aks-compute cluster  cpu-compute cluster  gpu-compute cluster </div> </div>

Answer:

Explanation:

Context	Resource
Test	<div> <div></div> <div> ds-workstation notebook VM  aks-compute cluster  cpu-compute cluster  gpu-compute cluster </div> </div>
Production	<div> <div></div> <div> ds-workstation notebook VM  aks-compute cluster  cpu-compute cluster  gpu-compute cluster </div> </div>

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 # 333

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