

Microsoft DP-100ソフトウェア & DP-100認定資格試験 問題集



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>> Microsoft DP-100ソフトウェア <<

試験の準備方法-信頼的なDP-100ソフトウェア試験-最新のDP-100認定資格試験問題集

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Microsoft Designing and Implementing a Data Science Solution on Azure 認定 DP-100 試験問題 (Q422-Q427):

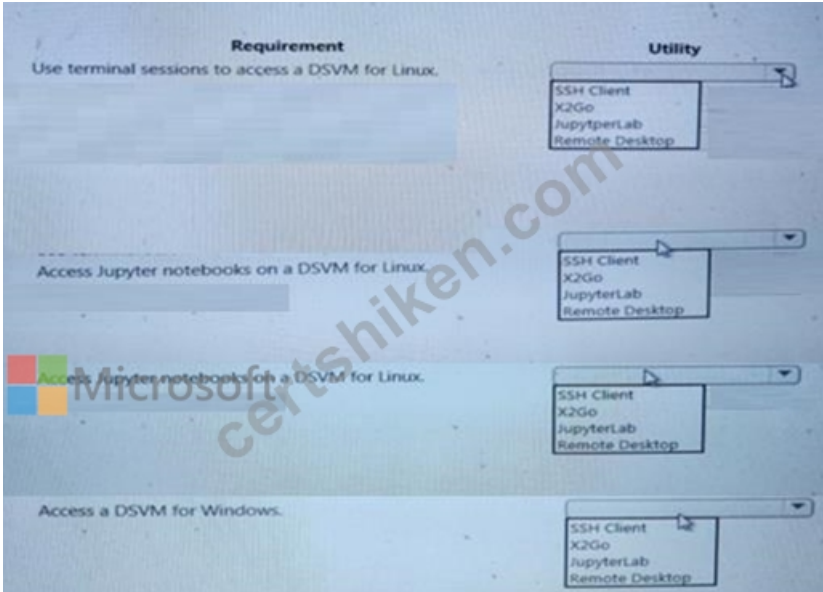
質問 # 422

You use Data Science Virtual Machines (DSVMs) for Windows and Linux in Azure.

You need to access the DSVMs.

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

NOTE: Each correct selection is worth one point.



正解:

解説:



質問 # 423

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 train a classification model by using a logistic regression algorithm.

You must be able to explain the model's predictions by calculating the importance of each feature, both as an overall global relative importance value and as a measure of local importance for a specific set of predictions.

You need to create an explainer that you can use to retrieve the required global and local feature importance values.

Solution: Create a MimicExplainer.

Does the solution meet the goal?

- A. No
- B. Yes

正解: A

解説:

Instead use Permutation Feature Importance Explainer (PFI).

Note 1: Mimic explainer is based on the idea of training global surrogate models to mimic blackbox models. A global surrogate model is an intrinsically interpretable model that is trained to approximate the predictions of any black box model as accurately as possible. Data scientists can interpret the surrogate model to draw conclusions about the black box model.

Note 2: Permutation Feature Importance Explainer (PFI): Permutation Feature Importance is a technique used to explain classification and regression models. At a high level, the way it works is by randomly shuffling data one feature at a time for the entire dataset and calculating how much the performance metric of interest changes. The larger the change, the more important that feature is. PFI can explain the overall behavior of any underlying model but does not explain individual predictions.

Reference:

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

質問 # 424

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.

Statements	Yes	No
The default environment will be created	<input type="radio"/>	<input type="radio"/>
The training script will run on local compute	<input type="radio"/>	<input type="radio"/>
A script run configuration runs a training script named <code>train.py</code> located in a directory defined by the <code>project_folder</code> variable	<input type="radio"/>	<input type="radio"/>

正解:

解説:

Statements	Yes	No
The default environment will be created	<input type="radio"/>	<input checked="" type="radio"/>
The training script will run on local compute	<input checked="" type="radio"/>	<input type="radio"/>
A script run configuration runs a training script named <code>train.py</code> located in a directory defined by the <code>project_folder</code> variable	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Statements	Yes	No
The default environment will be created	<input type="radio"/>	<input checked="" type="radio"/>
The training script will run on local compute	<input checked="" type="radio"/>	<input type="radio"/>
A script run configuration runs a training script named <code>train.py</code> located in a directory defined by the <code>project_folder</code> variable	<input type="radio"/>	<input checked="" type="radio"/>

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>

質問 # 425

You manage an Azure Machine Learning workspace by using the Python SDK v2.

You must create a compute cluster in the workspace. The compute cluster must run workloads and properly handle interruptions.

You start by calculating the maximum amount of compute resources required by the workloads and size the cluster to match the calculations.

The cluster definition includes the following properties and values:

```
* name="mlcluster1"
* size="STANDARD.DS3.v2"
* min_instances=1
* max_instances=4
* tier="dedicated"
```

The cost of the compute resources must be minimized when a workload is active or idle. Cluster property changes must not affect the maximum amount of compute resources available to the workloads run on the cluster.

You need to modify the cluster properties to minimize the cost of compute resources.

Which properties should you modify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Workload status

active

idle

Property

size
size
tier
max_instances

min_instances

size
min_instances
max_instances

正解:

解説:

The screenshot shows the 'Answer Area' with the Microsoft logo. The 'Workload status' dropdown is set to 'active'. The 'Property' dropdown is set to 'min_instances'. The 'size' option is highlighted in red in both dropdowns, indicating it is the correct selection.

質問 # 426

You use Azure Machine Learning to implement hyperparameter tuning with a Bandit early termination policy.

The policy uses a `slack_factor` set to 0.1, an evaluation interval set to 1, and an evaluation delay set to 5.

You need to evaluate the outcome of the early termination policy.

What should you evaluate? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

The screenshot shows the 'Answer Area' with the Microsoft logo. The 'Scenario' dropdown is set to '91 percent'. The 'Run termination interval' dropdown is set to 'Every interval when metrics are reported, starting at evaluation interval 5'. The 'Value' dropdown is set to '91 percent'.

正解:

解説:

The screenshot shows the 'Answer Area' with the Microsoft logo. The 'Scenario' dropdown is set to '91 percent'. The 'Run termination interval' dropdown is set to 'Every interval when metrics are reported, starting at evaluation interval 5'. The 'Value' dropdown is set to '91 percent'. The '1 percent' option is highlighted in green in the 'Scenario' dropdown, and the 'Every interval when metrics are reported, starting at evaluation interval 5' option is highlighted in green in the 'Run termination interval' dropdown, indicating they are the correct selections.

Explanation

