

# Latest DP-100 Dumps Ebook - Free PDF Quiz DP-100 - Designing and Implementing a Data Science Solution on Azure—First-grade Hot Spot Questions

## DP-100: Designing and Implementing a Data Science Solution on Azure

23%

### Question #1

You are using automated machine learning, and you want to determine the influence of features on the predictions made by the best model produced by the automated machine learning experiment.

What must you do when configuring the automated machine learning experiment?

(Interpreting Models)

Whitelist only tree-based algorithms.

Enable featureization.

Enable model explainability.

Check the answer and show the description

**Answer is Enable model explainability.** To generate model explanations when using automated machine learning, you must enable model explainability.

### Question #2

You want to create an explainer that applies the most appropriate SHAP model explanation algorithm based on the type of model.

What kind of explainer should you create?

(Interpreting Models)

Linear

Tabular

Permutation Feature Importance

Check the answer and show the description

**Answer is Tabular.** A Tabular explainer applies the most appropriate SHAP model interpretation algorithm for the type of model.

### Question #3

You want to include model explanations in the logged details of your training experiment.

What must you do in your training script?

(Interpreting Models)

Use the `fun_log_table` method to log feature importance for each feature.

Use the `ExplanationClient.upload_model_explanation` method to upload the explanation created by an `Explainer`.

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Microsoft DP-100 certification exam is an excellent opportunity for data scientists to validate their skills in designing and implementing data science solutions on Azure. Designing and Implementing a Data Science Solution on Azure certification demonstrates your proficiency in Azure tools and services, which are in high demand in the industry. It is a valuable asset to have on your resume and can help you advance your career in the field of data science.

Achieving the Microsoft DP-100 Certification is a valuable accomplishment for data professionals, as it demonstrates their competency in working with data on the Azure platform. It is also a valuable asset for organizations looking to hire data professionals, as it shows that the candidate has the necessary skills and expertise to design and implement data science solutions using Azure tools and services.

**The candidates who want to take the Microsoft DP-100 Exam are expected to have competence in its objectives. This means that they need to understand the scope of topics covered in this certification test. They are as follows:**

## 1. Azure ML Workspace Set-Up (30-35%):

- **Data objects management within Azure ML workspace:** The applicants should have competence in the creation and management of datasets, as well as maintenance and registration of datastores.
- **Azure ML workspace creation:** This area focuses on the students' skills in creating Azure ML workspace, operating workspaces by using Azure ML studio, and configuring workspace settings.
- **Experiment compute contexts management:** The test takers must be able to create compute instances and compute targets for training and experiments. They have to know how to establish suitable compute specifications for training workloads.

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## Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q154-Q159):

### NEW QUESTION # 154

You are developing a deep learning model by using TensorFlow. You plan to run the model training workload on an Azure Machine Learning Compute Instance.

You must use CUDA-based model training.

You need to provision the Compute Instance.

Which two virtual machines sizes can you use? To answer, select the appropriate virtual machine sizes in the answer area.

NOTE: Each correct selection is worth one point.

☐

**Answer:**

Explanation:

☐

Reference:

<https://www.infoworld.com/article/3299703/what-is-cuda-parallel-programming-for-gpus.html>

### NEW QUESTION # 155

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:

☐

Does the solution meet the goal?

- A. No
- B. Yes

**Answer: B**

Explanation:

The two steps are present: process\_step and train\_step

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.

PipelineData objects are also used when constructing Pipelines to describe step dependencies. To specify that a step requires the output of another step as input, use a PipelineData object in the constructor of both steps.

For 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 # 156

You create an Azure Machine Learning workspace named workspace1. You assign a custom role to a user of workspace1.

The custom role has the following JSON definition:

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:

Reference:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/overview#how-azure-rbac-determines-if-a-user-has-access-to-a-resource>

### NEW QUESTION # 157

You create a new Azure Machine Learning workspace with a compute cluster.

You need to create the compute cluster asynchronously by using the Azure Machine Learning Python SDK v2.

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

**Answer:**

Explanation:

Explanation:

### NEW QUESTION # 158

You manage an Azure Machine Learning workspace. You design a training job that is configured with a serverless compute. The serverless compute must have a specific instance type and count. You need to configure the serverless compute by using Azure Machine Learning Python SDK v2. What should you do?

- **A. Initialize and specify the ResourceConfiguration class**
- B. Initialize AmlCompute class with size and type specification.
- C. Specify the compute name by using the compute parameter of the command job
- D. Configure the tier parameter to Dedicated VM.

**Answer: A**

### NEW QUESTION # 159

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