Highlight Note

Explicitly Creating Environments

There are multiple ways to create environments in Azure Machine Learning.

Creating an Environment from a Specification File

You can use a Conda or pip specification file to define the packages required in a Python evironment, and use it to create an **Environment** object.

For example, you could save the following Conda configuration settings in a file named **conda.yml**:

```
name: py_env
dependencies:
  - numpy
  - pandas
  - scikit-learn
  - pip:
    - azureml-defaults
```

The you could use the following code creates an Azure Machine Learning environment from the saved specification file:

```
from azureml.core import Environment

env = Environment.from_conda_specification(name='training_environment',
                                           file_path='./conda.yml')
```

Creating an Environment from an Existing Conda Environment

If you have an existing Conda environment defined on your workstation, you can use it to define an Azure Machine Learning environment:

```
from azureml.core import Environment

env = Environment.from_existing_conda_environment(name='training_environment',
                                                  conda_environment_name='py_env')
```

Creating an Environment by Specifying Packages

You can define an environment by specifying the Conda and pip packages you need in a **CondaDependencies** object, like this:

```
from azureml.core import Environment
from azureml.core.conda_dependencies import CondaDependencies

env = Environment('training_environment')
deps = CondaDependencies.create(conda_packages=['scikit-learn','pandas','numpy', 'pip'],
```

```
                                pip_packages=['azureml-defaults'])
env.python.conda_dependencies = deps
```

Tip: It's best practice to use conda to install pip if you plan to also install pip packages.

This document belongs to Wolfgang Kiesenhofer.
wolfgang.kiesenhofer@outlook.com
No unauthorized copies allowed!

This document belongs to Wolfgang Kiesenhofer.
wolfgang.kiesenhofer@outlook.com
No unauthorized copies allowed!

This document belo
wolfgan