# Diplomado en ML Cloud - UCB CBBA

Módulo 4: Machine Learning Cloud MLOps
Docente: Ing. Mauricio Alejandro Quezada

Estudiante: Jose Carlos Iriarte Fecha: Septiembre del 2025

#### Laboratorio 7

Creación y activación del entorno de Azure ML en Conda

```
Preparing transaction: done
Verifying transaction: done
Verifying transaction: done
Executing transaction: done
Executing transaction: done
Executing transaction: done

# $ conda activate azureml

# To deactivate an active environment, use

# $ conda deactivate

(base) root@a@dbef777993:/# conda activate azureml

(zureml) root@a@dbef777993:/# conda activate azureml

(azureml) root@a@dbef777993:/# pip install azure-ai-ml azureml-core azureml-pipeline azureml-dataprep azureml-dataset-runtime azureml-defaults

Using cached azure ai_ml-1.28.1-py3-none-any.whl.metadata (39 kB)

collecting azureml-core

Using cached azureml_core-1.60.0.post1-py3-none-any.whl.metadata (3.4 kB)

Collecting azureml-dataprep

Using cached azureml_core-1.60.0-py3-none-any.whl.metadata (2.0 kB)

collecting azureml-dataprep

Using cached azureml_dataprep-5.4.1-py3-none-any.whl.metadata (2.1 kB)

Collecting azureml-dataset-runtime azureml-none-any.whl.metadata (1.4 kB)

Using cached azureml_dataset-runtime azureml-none-any.whl.metadata (2.1 kB)

Collecting azureml-defaults-1.60.0-py3-none-any.whl.metadata (9.14 bytes)

Collecting pyymml

Collecting pyymml</p
```

### Instalación del SDK v2 de Azure ML

```
Selecting previously unselected package azure-cli.

(Reading database ... 12609 files and directories currently installed.)

Preparing to unpack .../azure-cli 2.77.0-1-bookworm amd64.deb ...

Unpacking azure-cli (2.77.0-1-bookworm) ...

Setting up azur
```

## Instalación del Azure CLI con la extensión ML

```
| Cazureml| root@a00b6f7779a9:/#
| (azureml| root@a00b6f7779a9:/#
| (azureml| root@a00b6f7779a9:/#
| (azureml| root@a00b6f7779a9:/#
| (azureml| root@a00b6f7779a9:/# az extension add -n ml -y
| (azureml| root@a00b6f7779a9:/#
```

### **Ejecución**

Mostrar en consola el mensaje de conexion a azure ml correcta

```
from azure.ai.ml import MLClient
from azure.identity import DefaultAzureCredential
try:
    client = MLClient(
        DefaultAzureCredential(),
        subscription_id='ffc4c015-ct_3-4.Je-982e- !48a57ad7',
        resource_group_name='rg-mlops-ucb',
        workspace_name='wsmlopsucb606656185@'
    )
    print('Conexión a Azure ML correcta')
except Exception as e:
    print('Error:', e)
```

```
(azureml) root@a00b6f7779a9:/usr/src#
(azureml) root@a00b6f7779a9:/usr/src#
(azureml) root@a00b6f7779a9:/usr/src# nvim test_azureml.py
(azureml) root@a00b6f7779a9:/usr/src# python test_azureml.py
Conexión a Azure ML correcta
(azureml) root@a00b6f7779a9:/usr/src#
(azureml) root@a00b6f7779a9:/usr/src#
(azureml) root@a00b6f7779a9:/usr/src#
(azureml) root@a00b6f7779a9:/usr/src#
(azureml) root@a00b6f7779a9:/usr/src#
```