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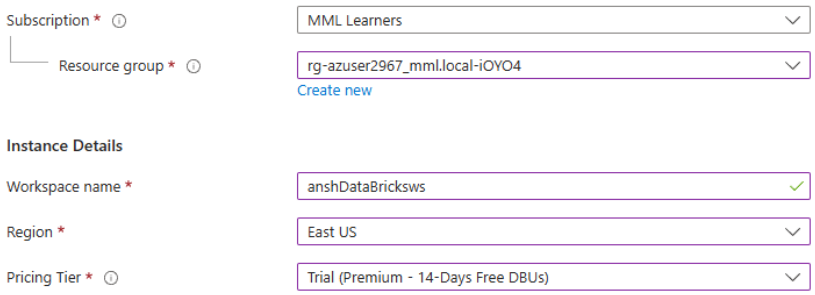
Azure Databricks

Exercise 1 – Settings up DataBricks and Spark Basics

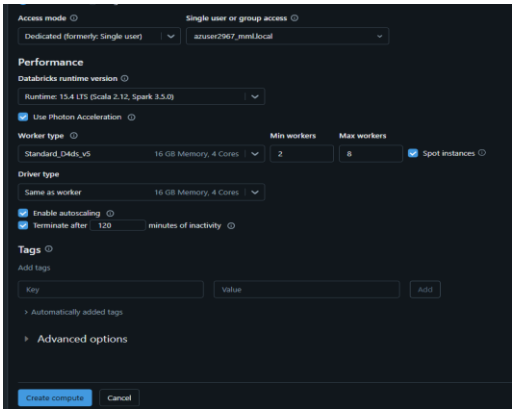
TASK 1: Create a new Azure DataBricks workspace

1. Go to Azure Portal > Azure DataBricks > Create > Enter details > Review and Create

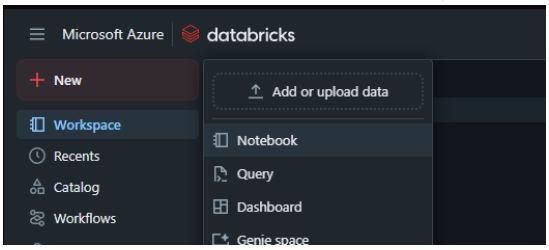


TASK 2: Launch a spark cluster and explore databricks interface

1. Launch your Databricks workspace > Computer side tab > Create Compute



2. Now click on New > Notebook and you will have your notebook ready in your workspace



The **Azure Databricks workspace** provides a unified environment for data engineering, data science, and machine learning. The main parts of the interface include:

1. Workspace

- Organize notebooks, libraries, and workflows.
- Create folders and share them with users or groups.

2. Notebooks

- Interactive notebooks supporting **Python**, **SQL**, **Scala**, and **R**.
- Run code in cells and visualize data easily.

3. Clusters

- Spin up Spark clusters for running jobs or interactive analysis.
- Choose autoscaling and runtime version (with Delta, ML, or GPU support).

4. Jobs

- Schedule notebooks or workflows.
- Automate ETL, ML training, or batch jobs.

5. Data

- Browse databases, tables, and files.
- Supports Unity Catalogue (if enabled) for secure, centralized governance.

6. Repos (Git Integration)

- Connect to GitHub or Azure DevOps to version-control notebooks and code.

TASK 3: Run Basic Spark commands

1. Running spark.version command in first cell

Now that we know our databricks workspace is ready we can start performing ETL tasks