Setting up Azure Databricks Workspace & Cluster

Exercise 0 – Setup Azure Data Lake Gen2 Account

1. Complete Lab 1 – Working with Azure Data Lake Gen2 account.
2. Upload Files if not already uploaded.

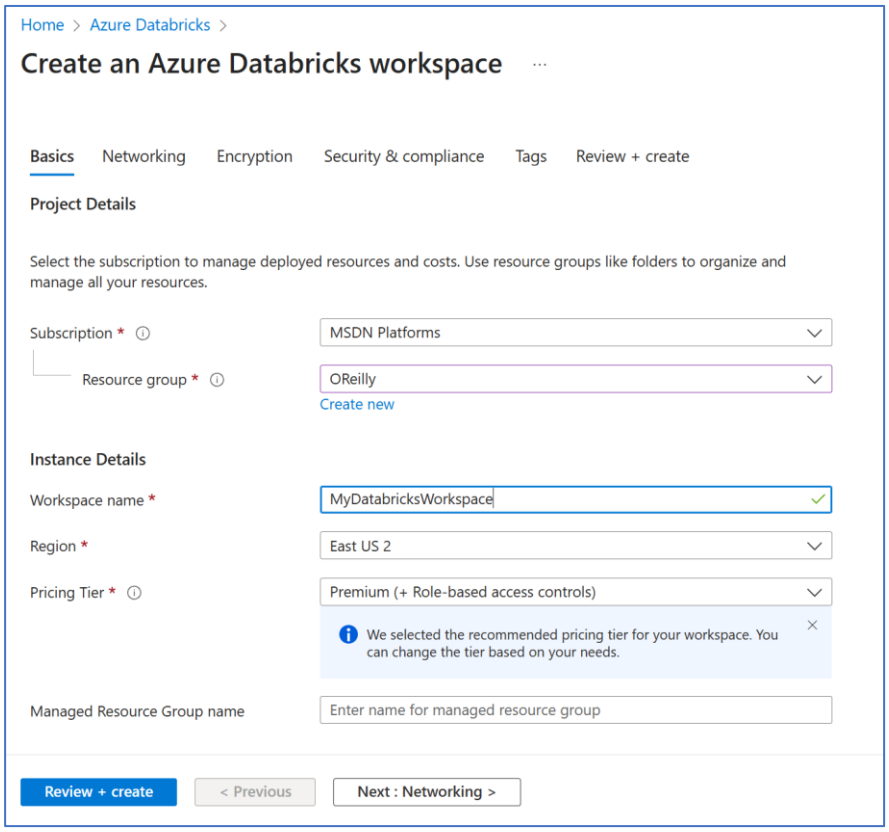
Exercise 1 – Setup Azure Databricks Workspace

1. Go to Azure portal (portal.azure.com).

2. In the search bar, search for Azure Databricks. And select it.

3. Click on **Create**.

4. Fill up the properties to create account
    a. [Basics Tab]
        i. Select subscription
        ii. Select resource group that you created in Exercise 0.
        iii. Provide a unique name
        iv. Select region of your choice (example – East US 2)
        v. Select pricing tier as Premium
        vi. Click **Review + Create**.

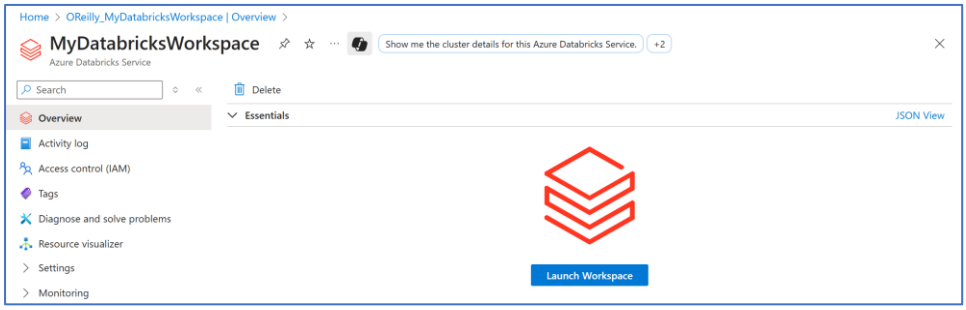


    b. Click **Create**.
        - This will take a few minutes to deploy.

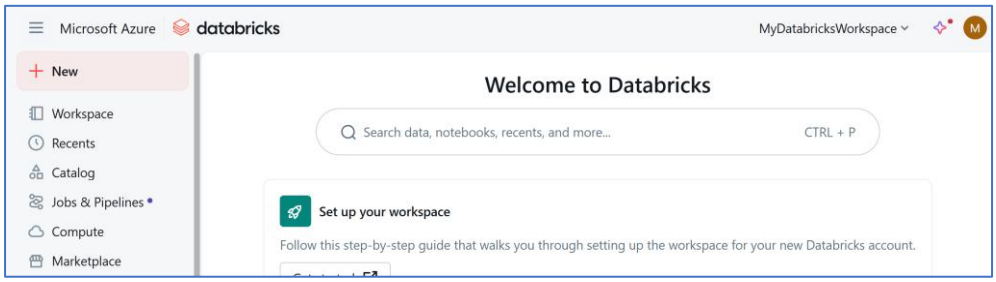
Exercise 2 – Launch Databricks Workspace & Create Cluster

1. Open Azure Databricks instance created in the previous step.

2. Click on Launch workspace, to open Databricks UI.

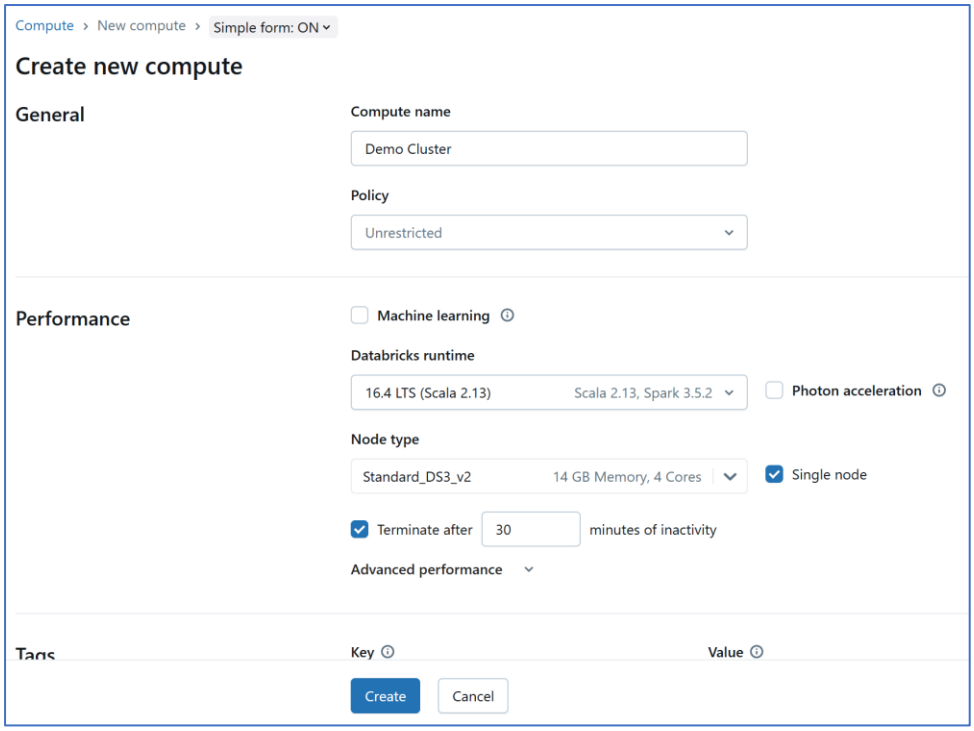


3. In the workspace, from left pane, go to **Compute** tab.



4. Under **All-purpose compute**, Click on **Create Compute** to create a cluster.

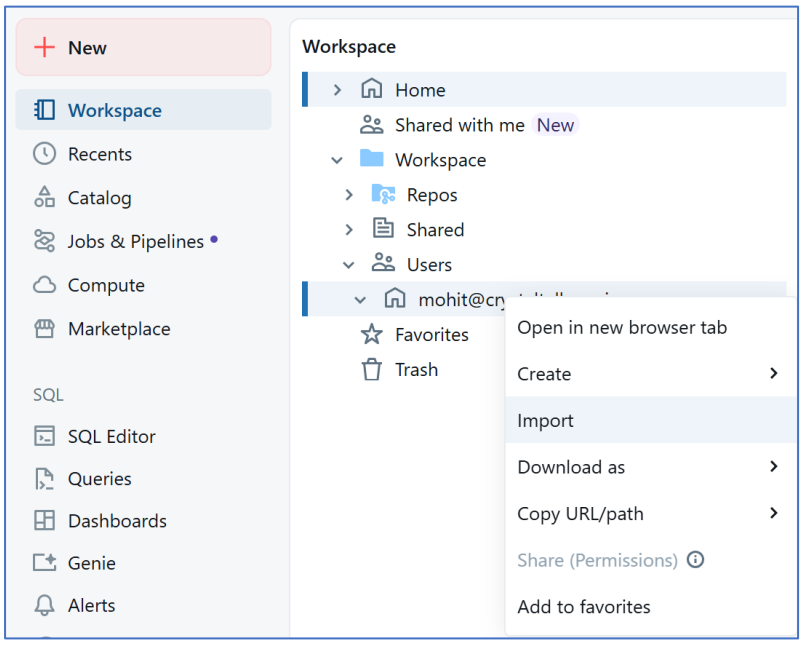
5. Fill up cluster properties and click on **Create**. This will take few minutes to setup a single node cluster.
    a. Compute name: Demo Cluster
    b. Databricks Runtime: Select the latest runtime with LTS (long-term support).
    c. Photon acceleration: Disable
    d. Node type: Standard_DS3_v2 (if this type is not available, select any other)
    e. Single node: Enable
    f. Terminate minutes: 30 minutes



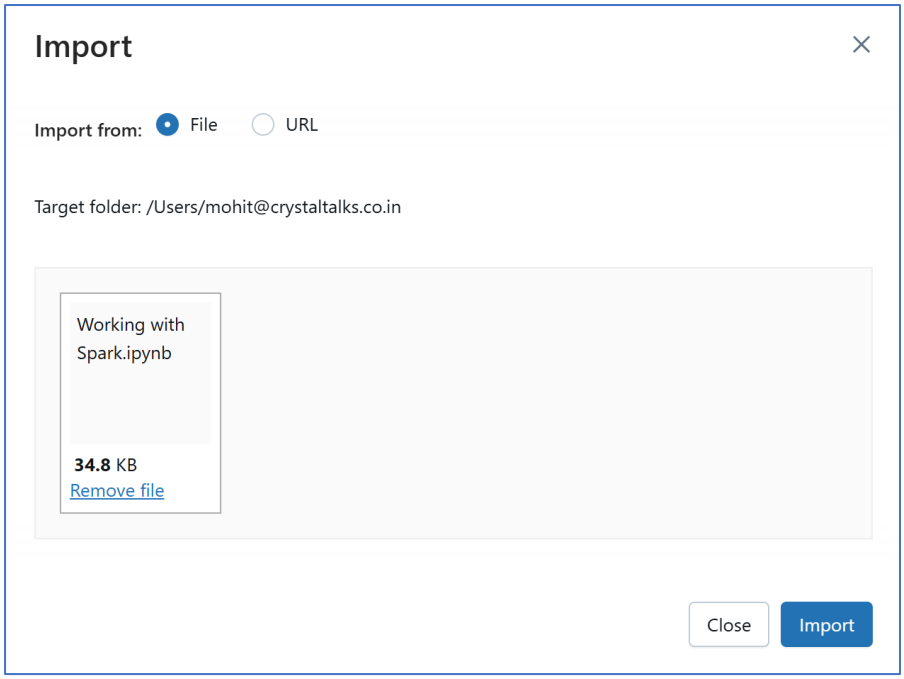
[Note]: If you want to setup multi-node cluster, deselect single node option from UI.

Exercise 3 – Import Notebook & Run Commands

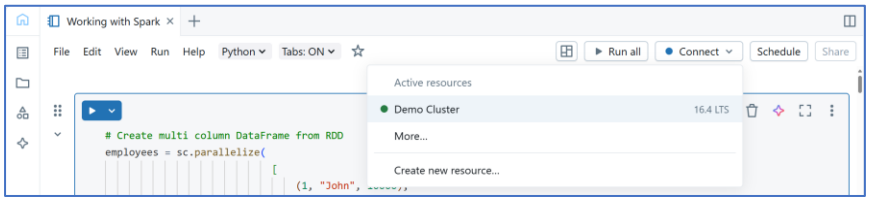
1. Download notebook – **Working with Spark.py** from GitHub repository.
2. Once the cluster is ready, from left pane, go to **Workspace** tab.
3. Click on Workspace folder → Users folder → Your user account.
4. Right-click on the account folder and click **Import**.



5. Upload the notebook - **Working with Spark.py** and click **Import**.



6. Open the notebook and connect to cluster (Demo Cluster) that you previously created.



7. Run the commands 1 to 12.