databricks 1.6 - Demo - Working with Compute Resources

(https://databricks.com)

Demo: Compute Resources

In order to work with data in Databricks, we need to use compute resources (i.e., clusters and warehouses). In this demo, we will launch a new cluster and a new warehouse.

Learning Objectives

1. Launch a new cluster.
2. Launch a new warehouse.

Create a Cluster

Depending on the workspace in which you're currently working, you may or may not have cluster creation privileges.

Instructions in this section assume that you **do** have cluster creation privileges, and that you need to deploy a new cluster to execute the lessons in this course.

NOTE: Check with your instructor or a platform admin to confirm whether or not you should create a new cluster or connect to a cluster that has already been deployed. Cluster policies may impact your options for cluster configuration.

Steps:

1. In the left sidebar, right-click on **Compute** and open the link in a new tab. This will allow you to refer back to these instructions, as needed
2. Click the blue **Create Compute** button
3. For the **Cluster name**, use your name so that you can find it easily
4. Set the cluster to Single Node, to control costs for this testing cluster.
5. Set the Access Mode to Single User (this mode is required for Unity Catalog)
6. Use the recommended **Databricks runtime version** for this course
7. Leave boxes checked for the default settings under the **Autoscaling Options**
8. Note the configuration options available for clusters
9. Click the blue **Create Compute** button

NOTE: Clusters can take several minutes to deploy and startup. Once you have
finished deploying a cluster, feel free to continue to explore the compute creation

🖼️ Single User Cluster Required for This Course

IMPORTANT: This course requires you to run notebooks on a single user cluster.

Follow the instructions above to create a cluster that has **Access mode** set to
`Single User` .

Create a SQL Warehouse

Now that we have created a cluster, let's create a SQL Warehouse, so we can run
queries in Databricks SQL.

Steps:
1. Click on the tab, **SQL Warehouses**, on the Compute page
2. Click **Create SQL warehouse**
3. For the **Name**, use your name so that you can find it easily
4. Set the **Cluster size** to 2X-Small
5. Verify the **Auto-stop** is set to 10 minutes
6. Verify the **Scaling** is set to 1 for the **Min.** and 1 for the **Max.**
7. Verify that **Type** is set to Serverless
8. Note the **Advanced options**
9. Click **Create**

Conclusion

Now that we have created our compute resources, we can begin running
notebooks and queries.