Lab - Databricks Setup

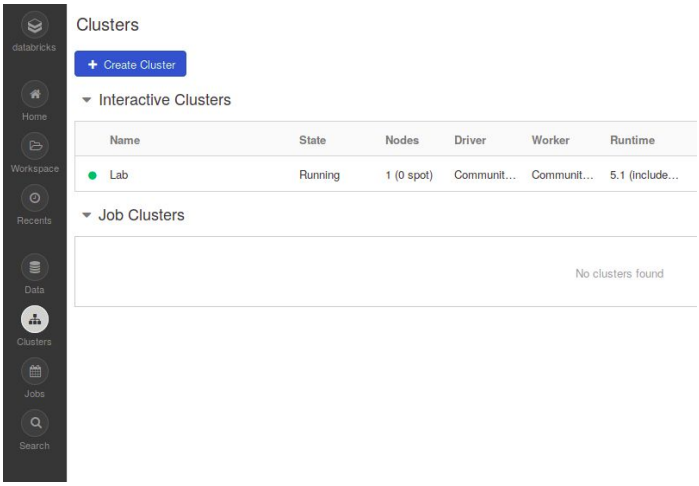
Objectives:

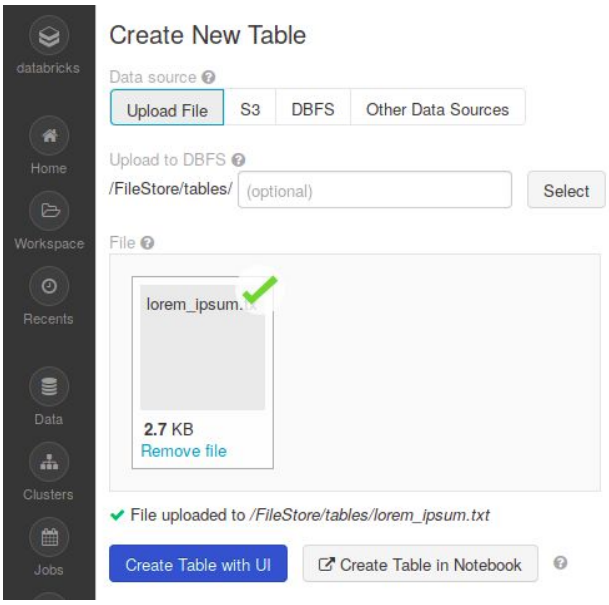
1. Running ML algorithms in Spark.
2. Using scikit-learn to perform computation on driver node.
3. Using scikit-learn and Spark to perform computation in distributed setting.
4. Understanding distinction between embarrassingly parallel vs native parallel algorithms - scikit-learn vs Spark MLlib.

Instructions:

Databricks

1. Databricks account creation: Create a community edition account in databricks: https://databricks.com/try-databricks
2. Login to the databricks community edition cloud
3. Click the “Clusters tab” and create a cluster





4. Click data and upload a new dataset file. Click “Create Table in Notebook”
5. The notebook should be imported to databricks
6. Open notebook and run python/scala code
7. One can view the spark jobs, DAG structure, executor node status, etc.. in the same UI

While Amabri is popularly used Hadoop solution that offers a number of services (which we will use later on). This setup is great for running spark code in a cluster setup.

You don’t have to worry about credits and can experiment with this setup easily.