Assisted Practice 10: YARN

Problem Scenario: Write a command to see which scheduling technique is used in the Lab environment before working on the Lab. There are three types of schedulers.

1. FIFO
2. Capacity
3. Fair

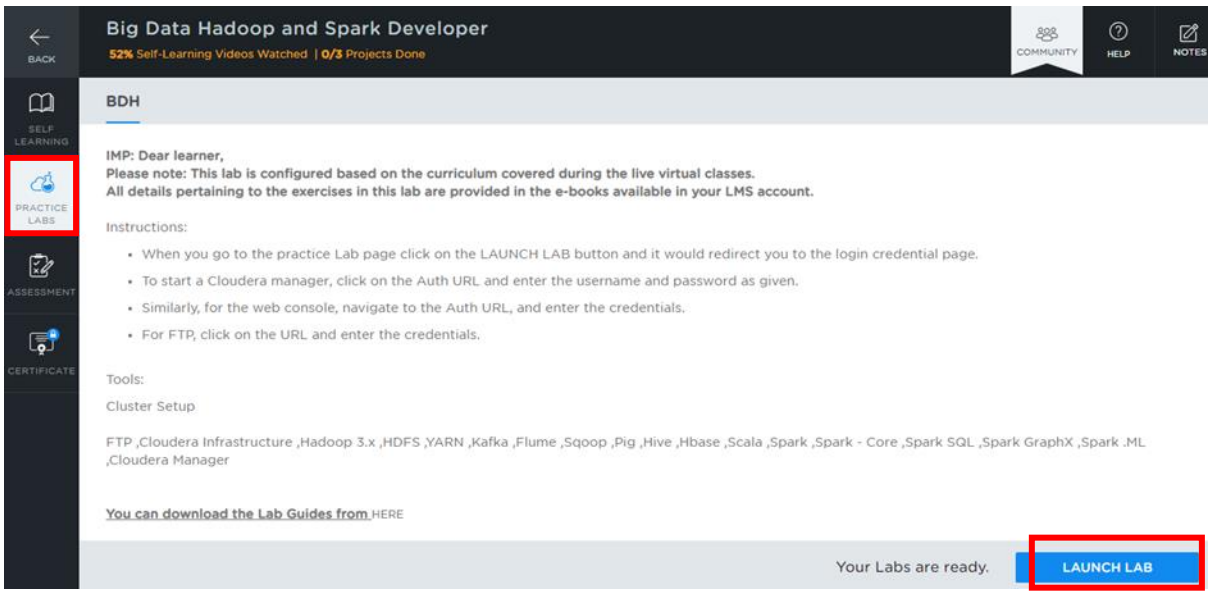
Objective: In this demonstration, you will see the type of scheduler present in Simplilearn's Lab.

Steps to Perform:

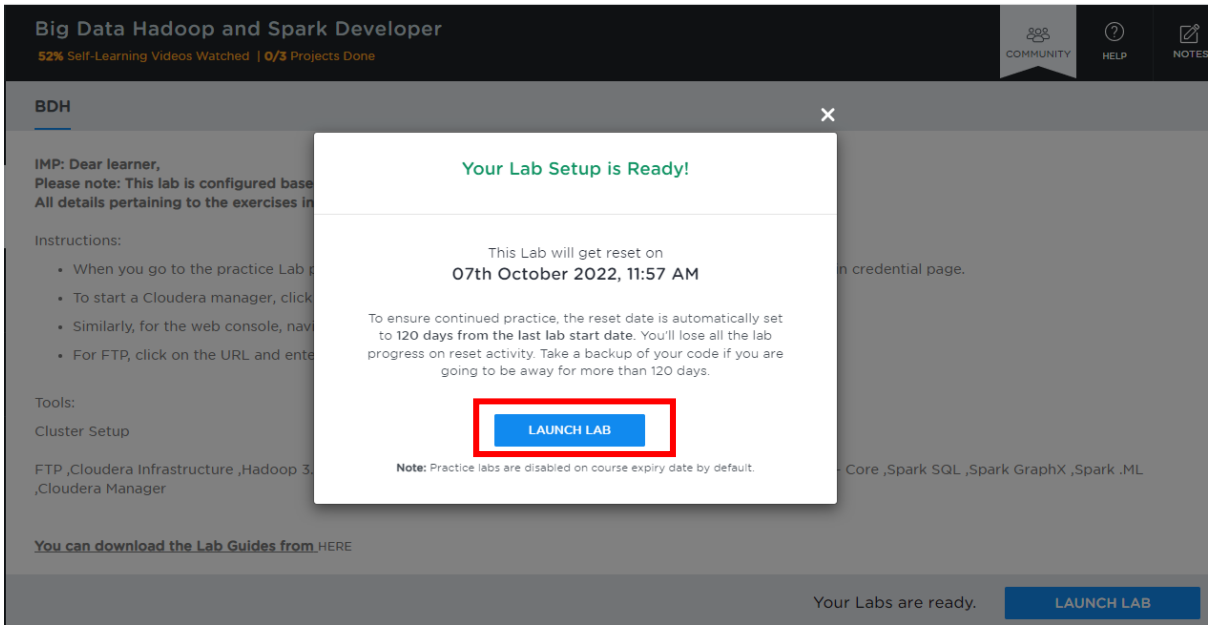
Step 1: Log in to your LMS account

Step 2: Open the course **"Big data Hadoop and Spark developer"**

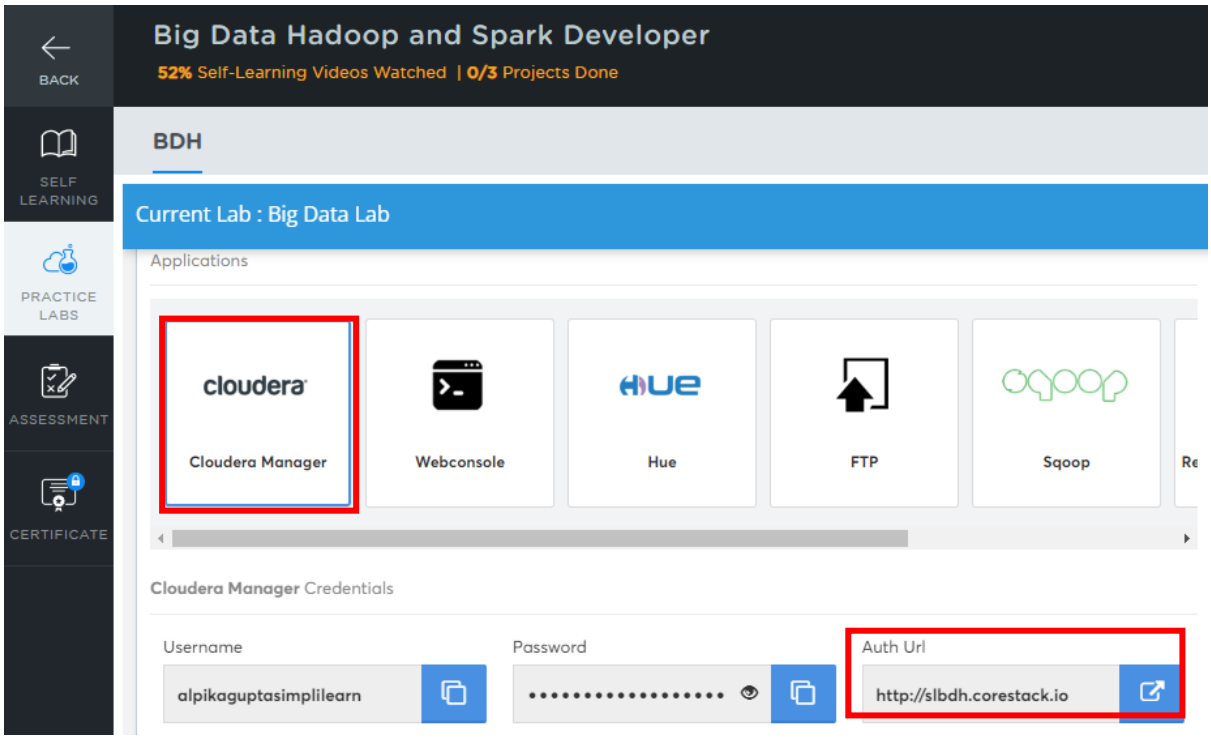
Step 3: On the left side, click on the **"PRACTICE LABS"** tab and click on the **"LAUNCH LAB"** button



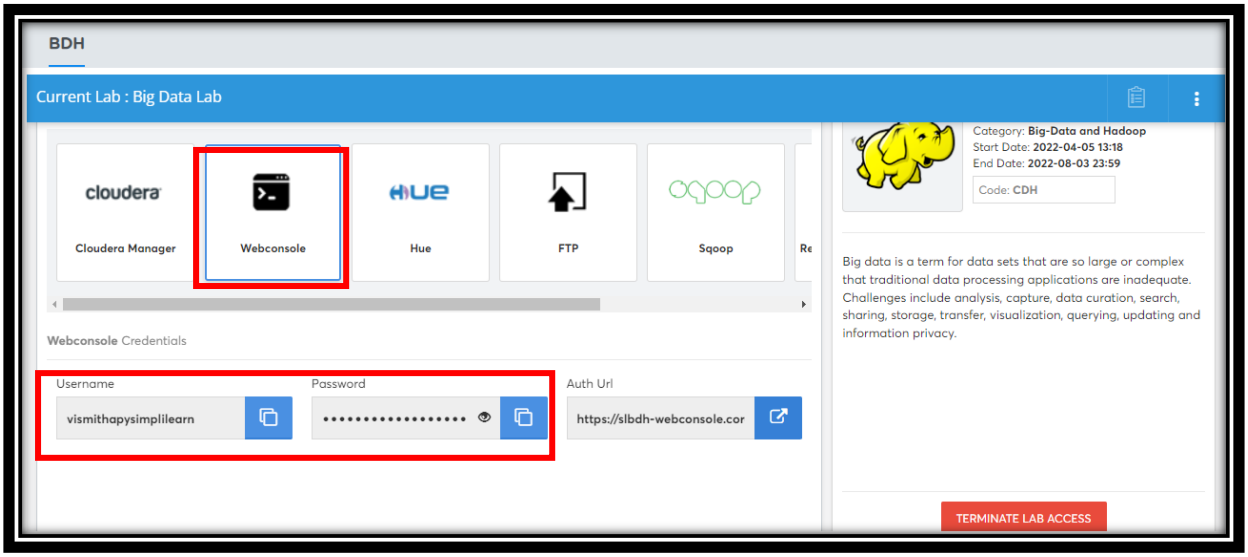
Step 4: Again, click on the **"LAUNCH LAB"** button



Step 5: Click on the "**Webconsole**" and on the **"Auth Url"**



Step 6: Copy the "**Username**" and the "**Password**" provided to log in to the **"Webconsole"**



Step 7: Paste the "**Username**" and the "**Password**" on the console and click on enter.

Note: The password will not be visible when pasted on the console.

Step 8: Enter the below command to see the lab scheduler.

Command:

vi /etc/Hadoop/conf/yarn-site.xml

Step 9: Keep scrolling down or search for scheduler and you will get the scheduler name:

```
</property>
<property>
  <name>yarn.resourcemanager.nm.liveness-monitor.interval-ms</name>
  <value>1000</value>
</property>
<property>
  <name>yarn.nm.liveness-monitor.expiry-interval-ms</name>
  <value>600000</value>
</property>
<property>
  <name>yarn.resourcemanager.resource-tracker.client.thread-count</name>
  <value>50</value>
</property>
<property>
  <name>yarn.application.classpath</name>
  <value>$HADOOP_CLIENT_CONF_DIR,$HADOOP_COMMON_HOME/*,$HADOOP_COMMON_HOME/lib/*,$HADOOP_HDFS_HOME/*,$HADOOP_HDFS_HOME
E/lib/*</value>
</property>
<property>
  <name>yarn.resourcemanager.scheduler.class</name>
  <value>org.apache.hadoop.yarn.server.resourcemanager.scheduler.capacity.CapacityScheduler</value>
</property>
<property>
  <name>yarn.scheduler.capacity.resource-calculator</name>
  <value>org.apache.hadoop.yarn.util.resource.DefaultResourceCalculator</value>
```