

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

The screenshot shows the Simplilearn LMS interface for the course "Big Data Hadoop and Spark Developer". The left sidebar contains navigation options: BACK, SELF LEARNING, PRACTICE LABS (highlighted with a red box), ASSESSMENT, and CERTIFICATE. The main content area displays the "BDH" (Big Data Hadoop) section. It includes a message to the learner, a note about curriculum coverage, and a list of instructions for the lab. At the bottom right, the "LAUNCH LAB" button is highlighted with a red box.

Big Data Hadoop and Spark Developer
52% Self-Learning Videos Watched | 0/3 Projects Done

BDH

IMP: Dear learner,
Please note: This lab is configured based on the curriculum covered during the live virtual classes.
All details pertaining to the exercises in this lab are provided in the e-books available in your LMS account.

Instructions:

- When you go to the practice Lab page click on the LAUNCH LAB button and it would redirect you to the login credential page.
- To start a Cloudera manager, click on the Auth URL and enter the username and password as given.
- Similarly, for the web console, navigate to the Auth URL, and enter the credentials.
- For FTP, click on the URL and enter the credentials.

Tools:

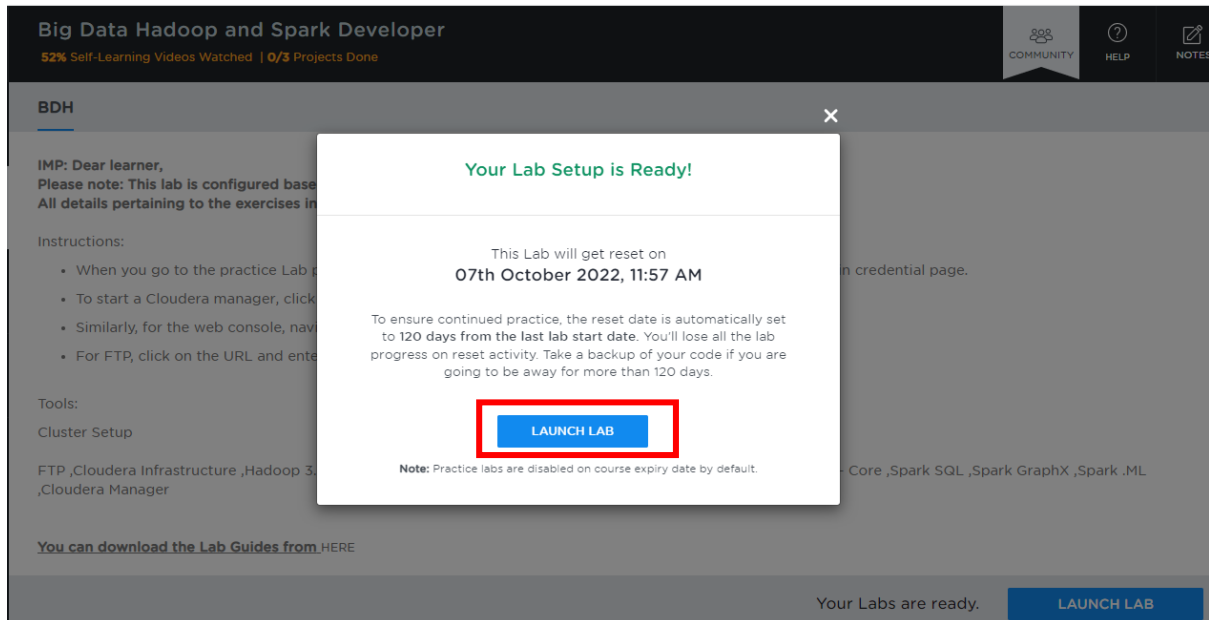
Cluster Setup

FTP ,Cloudera Infrastructure ,Hadoop 3.x ,HDFS ,YARN ,Kafka ,Flume ,Sqoop ,Pig ,Hive ,Hbase ,Scala ,Spark ,Spark - Core ,Spark SQL ,Spark GraphX ,Spark .ML ,Cloudera Manager

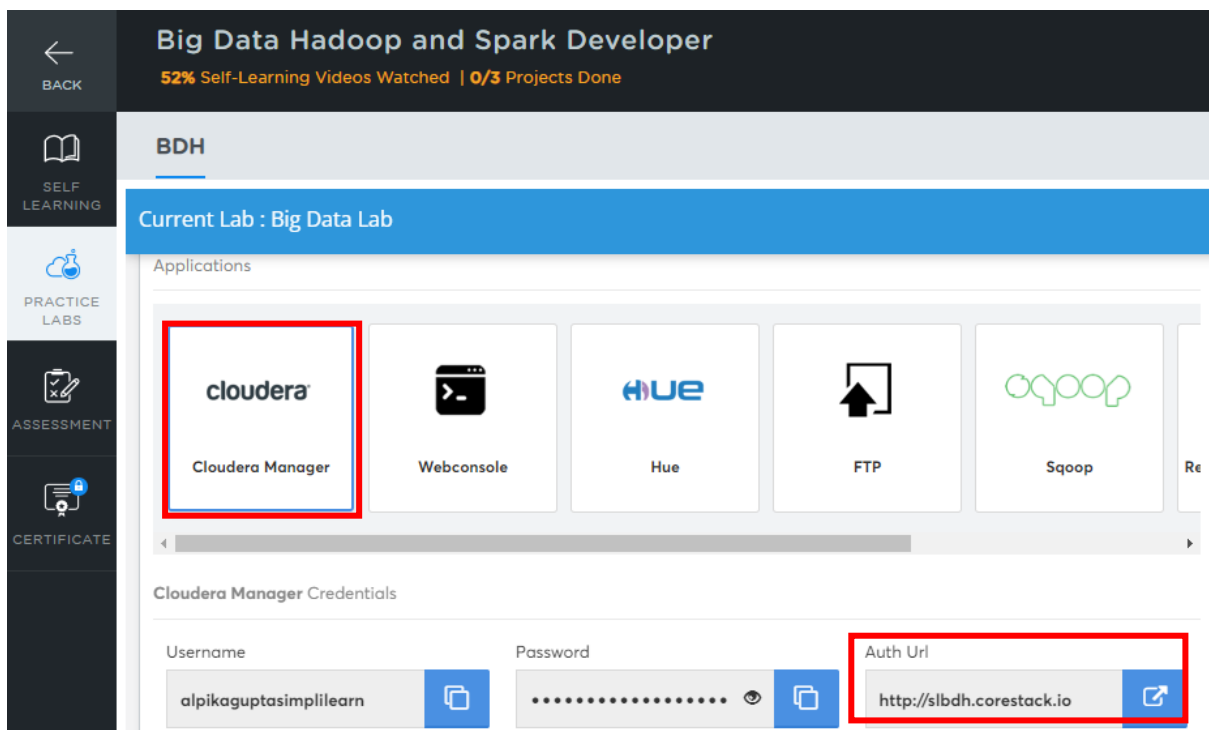
[You can download the Lab Guides from HERE](#)

Your Labs are ready. **LAUNCH LAB**

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”**



```
</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>
```