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# Big Data Hadoop Spark Developer

Lab Guide



**Note: The screenshots used in Step 1 are only for your reference. Your LMS may look different depending on your course content.**

This section will guide you to:

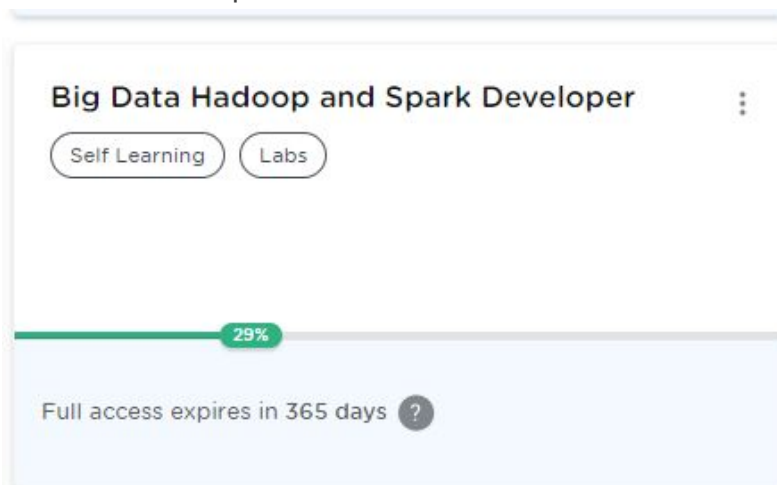
- Use labs for executing all the demos included in this course

This lab has two subsections, namely:

1. Starting practice labs on LMS
2. Using the services required for this course

### **Step 1: Starting Practice Labs on LMS**

- Login to Simplilearn LMS
- Go to the respective course



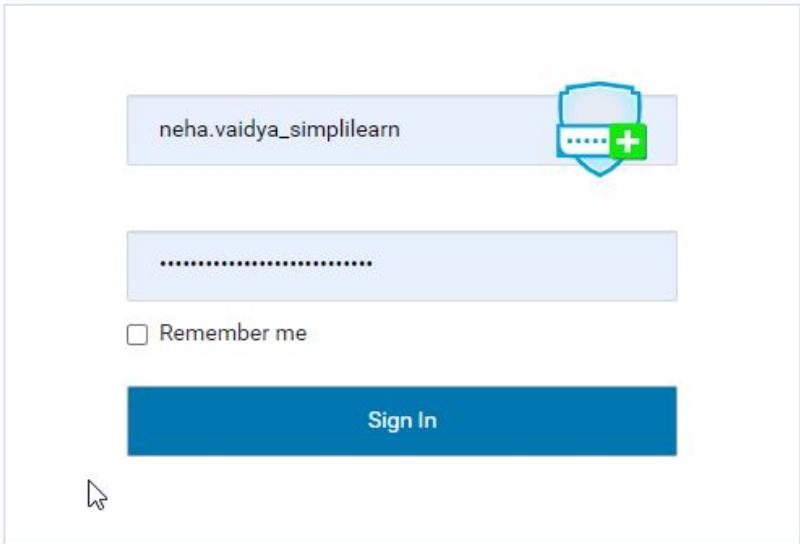
You will see the course TOC page. Click on **PRACTICE LABS**.

The screenshot shows the course TOC page for "Big Data Hadoop and Spark Developer". The page has a dark sidebar on the left with navigation options: BACK, SELF LEARNING, LIVE CLASSES, PRACTICE LABS (highlighted), ASSESSMENT, and CERTIFICATE. The main content area has a header with the course title and progress: "29% Self-Learning Videos Watched | 0/3 Projects Done". Below this, the "BDH" section is expanded, showing a description of the course and a list of tools: "Tools: Cluster Setup, FTP, Cloudera Infrastcure, Hadoop 3.x, HDFS, YARN, Kafka, Flume, Sqoop, Pig, Hive, Hbase, Scala, Spark, Spark - Core, Spark SQL, Spark GraphX, Spark .ML, Cloudera Manager". At the bottom right, there is a blue button labeled "LAUNCH LAB" next to the text "Your Labs are ready."

- A new window will open. Read the instructions and click on the **LAUNCH LAB** button. This will launch the practice labs for this course.
- In the next window, select the desired service for example: Cloudera Manager and click on the Auth URL as shown below.

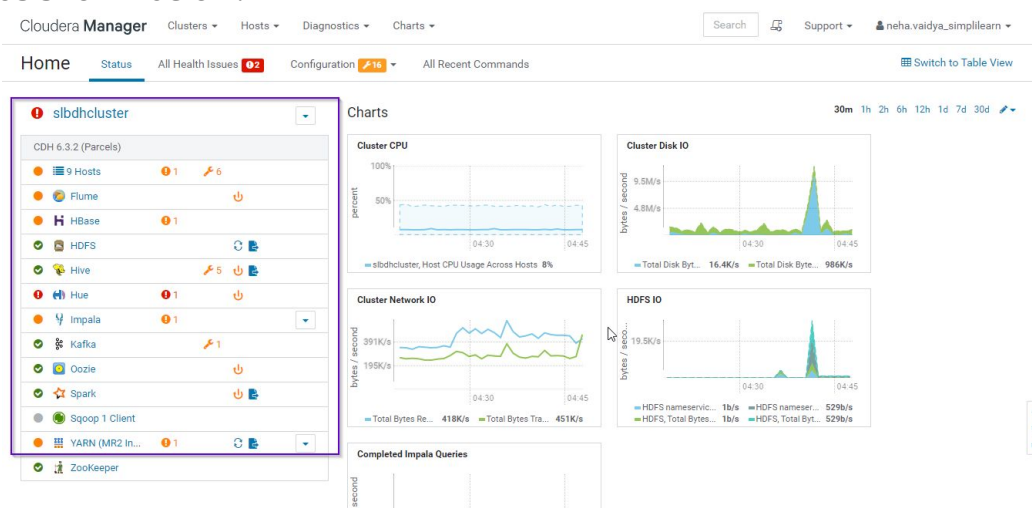
The screenshot shows the "Current Lab : Big Data Lab" interface. It features a sidebar with navigation options: SELF LEARNING, LIVE CLASSES, PRACTICE LABS (highlighted), ASSESSMENT, and CERTIFICATE. The main content area displays a grid of service tiles: Cloudera Manager, Webconsole, Hue, FTP, and Sqoop. Below the grid, there is a section titled "Cloudera Manager Credentials" with fields for Username, Password, and Auth Uri. The Username field contains "neha.vaidya\_simp", the Password field is masked with dots, and the Auth Uri field contains "http://slbdh.corestack.io". Each field has a copy icon to its right.

- On the next page, enter the respective username and password to login to the Cloudera Manager.

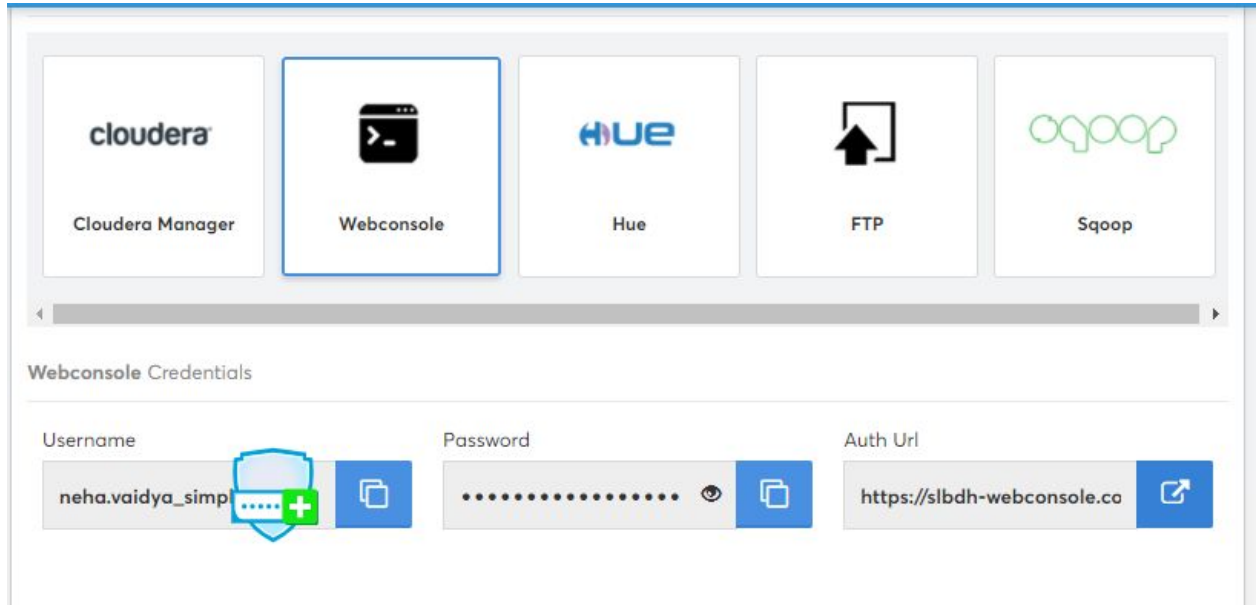


The login form is contained within a light blue border. At the top, there is a text input field with the username "neha.vaidya\_simplilearn" and a green shield icon with a white plus sign to its right. Below this is a password input field represented by a series of dots. Under the password field is a checkbox labeled "Remember me". At the bottom of the form is a large blue button with the text "Sign In" in white. A mouse cursor is visible near the bottom left of the form.

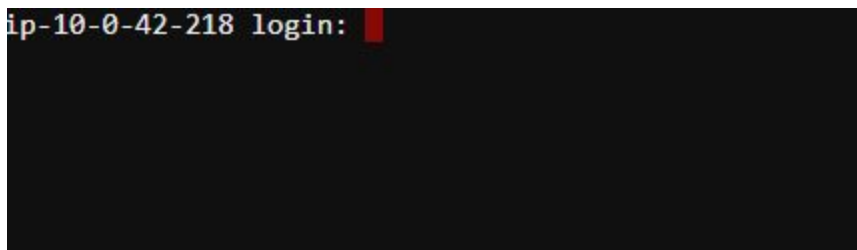
- You will get the Cloudera Manager Dashboard with the list of various services as shown below.



- Similarly, click on the web console and navigate using Auth Url.



- Login using the credentials given.



- Similarly, login to the HUE the same way with the credentials given. You will be navigated to the dashboard as shown below.

The screenshot shows the Hue web interface. On the left, there's a sidebar with a 'Tables' section showing a list of tables including `_from_spark_stg_cars`, `abc12`, `abhi0410`, `aditya07`, `aditya007`, `aditya_data2_external`, `aditya_parstock`, `aditya_table1`, `ajay_stu`, `ajith_parstock`, `ajith_stock`, `ajith_tbl`, `ajith_tbl1`, `ajith_tbl2`, `aju`, `ajy`, `aks_emp`, `akshay`, `akshay1`, and `akshay_stu`. The main area is the Hive query editor, which has a text input field with the placeholder text 'Example: SELECT \* FROM tablename, or press CTRL + space'. Below the input field, there's a 'Query History' and 'Saved Queries' section. The 'Query History' shows a list of queries with timestamps like '2 months ago' and '4 months ago'. The 'Saved Queries' section shows a table with columns 'Name', 'Query', and 'Created At'. The first row in the 'Saved Queries' table is highlighted, showing a query: `select * from movies`.

Similarly login to FTP using the credentials.

To login to sqoop, go to the web console, login to Mysql using the below command.

**mysql -h sqoopdb.slbdh.cloudlabs.com -u -p**

**For Sqoop import:**

**sqoop import --connect jdbc:mysql:/// --username --password --table --m 1 --target-dir**

Note: Make sure the above command is a single line when copy pasting. Use notepad or text editor to confirm the command is in a single line For username and password, refer to Access Details page under Practice Labs Tab of your LMS.

**For Sqoop export:**

**sqoop export—connect jdbc:mysql://sqoopdb.slbdh.cloudlabs.com/ --username --password --export-dir --table -m --lines-terminated-by " --input-fields-terminated-by " --driver com.mysql.jdbc.Driver;**



