Assisted Practice: Execution of MapReduce Job

Problem Scenario: Write the commands to perform partitions using the JAR files for the execution of a MapReduce job

Objective: In this demonstration, you will use JAR files and the wordcount.txt file to perform the partitions in the execution of a MapReduce job.

Dataset Name: "wordcount.txt"

Tasks to Perform:

- 1. Download the **Hadoop-mapreduce-example.jar** file and **wordcount.txt**
- 2. Log in to the FTP using the username and password from the lab and upload the file
- Log in to the Webconsole using the username and password from the lab and create a new directory **demo** in HDFS using the **mkdir** command
- 4. Push the wordcount.txt file into the directory using the put command
- Execute the command to move the Hadoop-mapreduce-example.jar file to the HDFS directory
- 6. View the files in the **Output** folder with the part files

Steps to Perform:

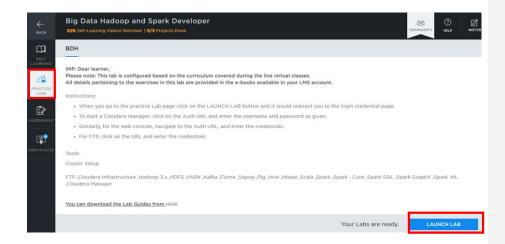
Step 1: Download the dataset named "wordcount.txt" and the JAR file from the course resources section

Step 2: Log in to your LMS account

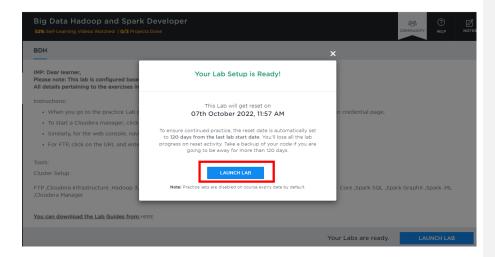
Step 3: Open the course "Big Data Hadoop and Spark Developer"



Step 4: On the left side, click on the **"PRACTICE LABS"** tab and click on the **"LAUNCH LAB"** button

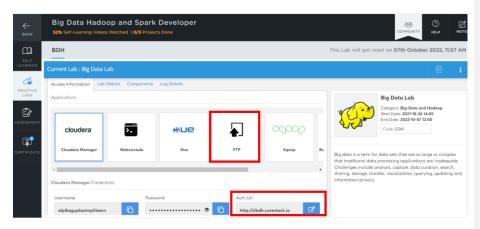


Step 5: Again, click on the "LAUNCH LAB" button





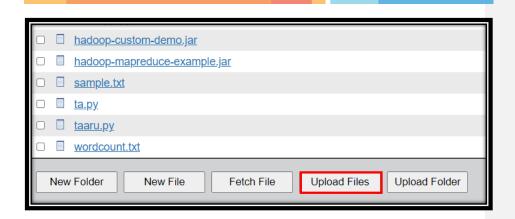
Step 6: Click on **"FTP"** and click on the **"Auth Url"** to upload the dataset and copy the **"Username"** and the **"Password"** provided to log in to the **"FTP"**



Step 7: Paste the "Username" and the "Password" on the login window and click on "Login".

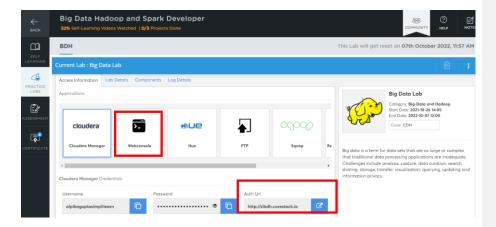


Step 8: Click on the **"Upload Files"** icon and upload the **"wordcount.txt"** and **"Hadoop-mapreduce-example.jar"** file into the FTP



Step 9: Go back to the lab window and click on "**Webconsole**" and click on the "Auth Url"

Step 10: Copy the "Username" and the "Password" provided to log in to the "Webconsole"



Step 11: 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

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Commented [SB1]: Shouldn't this be Step 10? Change all the following steps numberings too accordingly

Commented [AG2R1]: sure

Commented [AG3R1]: done

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Step 12: Create a directory using mkdir named "demo." After this, load the "wordcount.txt" file into HDFS using the below command:

Command:

hdfs dfs -mkdir demo

hdfs dfs -put wordcount.txt demo

Note: Make sure you have the "Hadoop-mapreduce-example.jar" file present in FTP using Is command

Step 13: Now, execute the below command and see if your job gets executed successfully

Note: Change the username of the Hadoop directory to "testdemomay1301mailinator" as assigned in your Lab

Command:

yarn jar hadoop-mapreduce-example.jar
org.simplilearn.demo.mapreduce.wordcount.WordCount /user/
testdemomay1301mailinator/demo/ wordcount.txt demo/Output

```
[testdemomay1301mailinator@bdh-cluster2-edgenode10 ~]$ yarn jar hadoop-mapreduce-example.jar org.simplilearn.demo.mapreduce.wordcount.WordCount /user/testdemomay13 31mailinator/demo/wordcount.tot demo/Output
AMANING: YANN OPIS has been replaced by HADOOP OPIS. Using value of YARN OPIS.
272967/5 15-79-11 INFO hdfs.DFSC16est.Tested token for testdemomay1301mailinator: HDFS DE1EGATION TOKEN conner-testdemomay1301mailinator@BDH-RNV.GNEA-RUTX.CLOUDER
```

Step 14: Login into the Hue and you will be able to see the **"demo"** directory.

Open the **"demo"** directory and you will see one more folder named **"Output"** where you will be able to see the part files

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Commented [SB4]: The sentence is not clear. Please check and rephrase.

Commented [AG5R4]: Ls is a command so when we write Is then we can see the no of files present in the FTP

Commented [AG6R4]: done

Commented [SB7]: Is the spacing correct here? Please check

Commented [AG8R7]: After wordcount spacing will come, It is correct

