Assisted Practice: Execution of MapReduce Job Using Custom Partitioner

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

Objective: In this demonstration, you will explore the execution of a MapReduce job in Simplilearn's Lab by creating a custom partitioner.

Dataset Name: "wordcount.txt"

Tasks to Perform:

- 1. Download the hadoop-custom-demo.jar file and wordcount.txt file
- 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 CustomPartitioner20 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-custom-demo.jar** file to the HDFS directory
- 6. View the files in the **final** folder with the part files

Steps to Perform:

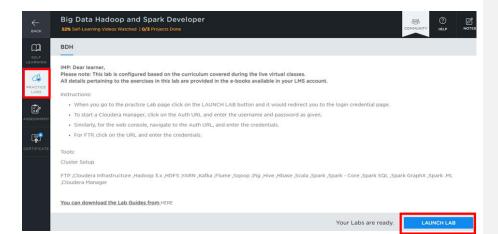
Step 1: Download the dataset named "wordcount.txt" and the JAR file from the course resources section

Step 2: Log in to your LMS account

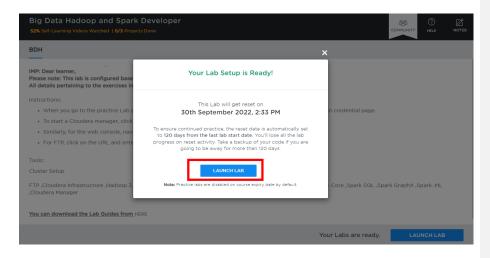


Step 3: Open the course "Big Data Hadoop and Spark Developer"

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

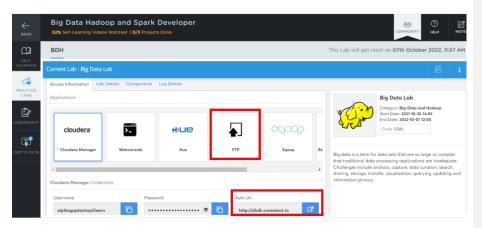


Step 5: Again, click on the "LAUNCH LAB" button

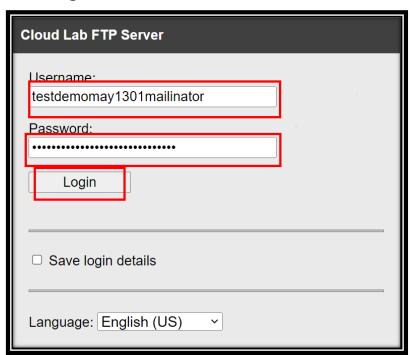




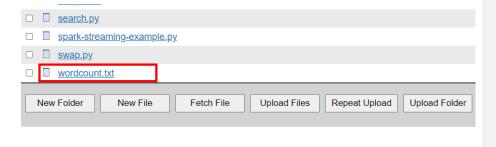
Step 6: Click on "FTP" and click on the "Auth Url" to upload the dataset and copy the "Username" and the "Password" provided to log in to the "FTP"



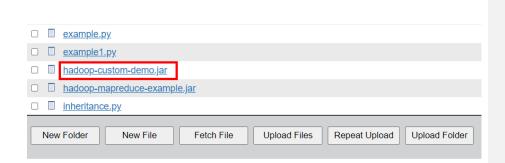
Step 7: Paste the "Username" and the "Password" on the login window and click on "Login"



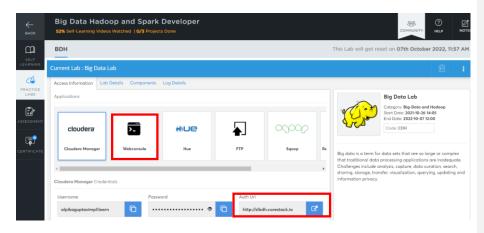
Step 8: Click on the **"Upload Files"** icon and upload the **"wordcount.txt"** and **"hadoop-custom-demo.jar"** files into the FTP







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

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

Commented [AG2R1]: sure

Commented [AG3R1]: done

Step 12: Create a directory using mkdir named "CustomPartitioner20." After this, load the "wordcount.txt" file into HDFS using the below command:

Command:

hdfs dfs -mkdir CustomPartitioner20

hdfs dfs -put wordcount.txt CustomPartitioner20

Note: Make sure you have the "hadoop-custom-demo.jar" file present in FTP using the ls command

```
[testdemomay1301mailinator@bdh-cluster2-edgenode10 ~]$ hdfs dfs -mkdir CustomPartitioner20
[testdemomay1301mailinator@bdh-cluster2-edgenode10 ~]$ hdfs dfs -put wordcount.txt CustomPartitioner20
[testdemomay1301mailinator@bdh-cluster2-edgenode10 ~]$ | hdfs dfs -put wordcount.txt CustomPartitioner20
[testdemomay1301mailinator@bdh-cluster2-edgenode10 ~]$ | s | kmeans.py | mapexample.py | lesson_13_Dataset.csv | lin_reg.py | lin_reg.py | lin_reg.py | lin_reg.py | lin_reg.py | lin_reg.py | loggerAnalysis.jar | log_reg.py | l
```

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-custom-demo.jar

/user/testdemomay1301mailinator/CustomPartitioner20/wordcount.txt /user/testdemomay1301mailinator/CustomPartitioner20/final



Step 14: Login into the Hue and you will be able to see the

"CustomPartitioner20" directory. Open the "CustomPartitioner20" directory and you will see one more folder named "final" where you will be able to see the part files

Home /user/testdemomay1301mailinator/CustomPartitioner20

