

1. student@student-HP-Pro-3330-MT:~\$ sudo su hduser

-- switches account to hduser

2. [sudo] password for student:

-- try[hduser, student, student1]

3. hduser@student-HP-Pro-3330-MT:home/student\$ cd

-- path changes to home/student

-- do "cd" and return to root directory

4. hduser@student-HP-Pro-3330-MT:~\$ cd /usr/local/hadoop

-- go to hadoop folder

EXPECTED OUTPUT IN PATH: hduser@student-HP-Pro-3330-MT:/usr/local/hadoop\$

5. start-dfs.sh

-- starts HDFS [hadoop distributed file system] services

6. start-yarn.sh

-- start yarn [Yet Another Resource Negotiator] services

-- responsible resource allocation

7. jps

-- Java Process Status

-- lists all the running java processes

--EXPECTED:

Jps

DataNode

ResourceManager

SecondaryNameNode

NameNode

NodeManager

-- all 6 must be started

8. bin/hdfs dfs -mkdir /user21

-- creates a directory in HDFS

bin/hdfs: refers to HDFS command line utility

/user21: directory name

9. bin/hdfs dfs -put /home/student/data1 /user21/input.txt

-- PUT command takes 2 argument source destination

-- /home/student/data1: location of input file (give complete path upto file)

-- /user21/input.txt: destination in hadoop where to place the file and the name of the file

above command copies file from

home/student/data1/ to the /user21 folder

in hdfs with name renames file as input.txt

10. bin/hadoop jar share/hadoop/mapreduce/hadoop-mapreduce-examples-2.9.0.jar wordcount /user21/input.txt output21

-- Executes the wordcount program

-- JAR command takes 4 argument: program_path wordcount input_path output_path

bin/hadoop: It refers to the Hadoop command-line utility.

jar: specifies we want to run jar file

share/hadoop/mapreduce/hadoop-mapreduce-examples-2.9.0.jar: path to wordcount program

/user21/input.txt: input file

output21: outfile

-- EXPECTED: Bytes Written: non-zero value;

11. bin/hdfs dfs -cat output21/*

-- OUTPUT

DEBUGGING 🙄🤓

1. if in JPS (point 7) namenode is not starting :

-- TRY:

hadoop namenode -format

2. if any other error :

-- TRY Restarting the hadoop:

stop-all.sh

stop-dfs.sh

stop-yarn.sh

-- Start again.....

3. if error while making directory (point 8) :

-- TRY :

hadoop dfsadmin -safemode leave

-- rerun point 8