

Lab-06

Hadoop Basic commands execution in Ubuntu

1. To start hadoop shell in terminal!
 - > start-all.sh
 - > jps
2. To check existing directories
 - > hadoop fs -ls /
3. If no directory exist create new
 - > hadoop fs -mkdir /njin
4. Create a file on Desktop (locally)
 - file1.txt
5. Copy the file from desktop to hadoop file system file name
 - > hadoop fs -copyFromLocal /home/hadoop/Desktop/file1.txt /njin/test.txt
6. To view the hadoop file test.txt
 - > nano /home/hadoop/Desktop/file1
 - /njin/test1.txt
 - Ctrl + O → To save
 - Ctrl + X → To exit

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7. To check if test.txt created or not
hadoop fs -ls /tmp
8. Create another directory in HDFS
hadoop fs -mkdir /abc
9. Create "Welcome.txt" in desktop
welcome.txt
10. Copy from "welcome.txt" to hdfs directory abc
hadoop fs -put /home/hadoop/Desktop/welcome.txt
/abc/wc.txt
11. To display content of "wc.txt"
hadoop fs -cat /abc/wc.txt
12. To move file or directory indicated by source to destination within HDFS
hadoop fs -mv /abc/FFF * Create FFF if not exist
13. To view the new destination directory
hadoop fs -ls /FFF

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hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
localhost: namenode is running as process 6418. Stop it first and ensure /tmp/hadoop-hadoop-namenode.pid file is empty before retry.
Starting datanodes
localhost: datanode is running as process 6591. Stop it first and ensure /tmp/hadoop-hadoop-datanode.pid file is empty before retry.
Starting secondary namenodes [bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC]
bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC: secondarynamenode is running as process 6870. Stop it first and ensure /tmp/hadoop-hadoop-secondarynamenode.pid file is empty before retry.
Starting resource manager
resource manager is running as process 7157. Stop it first and ensure /tmp/hadoop-hadoop-resource manager.pid file is empty before retry.
Starting node managers
localhost: nodemanager is running as process 7319. Stop it first and ensure /tmp/hadoop-hadoop-nodemanager.pid file is empty before retry.
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ jps
6418 NameNode
7157 ResourceManager
6870 SecondaryNameNode
7319 NodeManager
12717 Jps
6591 DataNode
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /
Found 1 items
drwxr-xr-x - hadoop supergroup 0 2025-04-15 14:32 /rgs
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ nano /home/hadoop/Desktop/file1.txt
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -copyFromLocal /home/hadoop/Desktop/file1.txt /rgs/test.txt
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /rgs
Found 1 items
-rw-r--r-- 1 hadoop supergroup 89 2025-04-15 15:03 /rgs/test.txt
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /rgs
Found 1 items
-rw-r--r-- 1 hadoop supergroup 89 2025-04-15 15:03 /rgs/test.txt
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop jar /home/hadoop/Desktop/WordCount.jar wordcount.WordCount /rgs/test.txt /output
JAR does not exist or is not a normal file: /home/hadoop/Desktop/WordCount.jar
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -mkdir /abc
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /Hadoop
ls: '/Hadoop': No such file or directory
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ Ls
Ls: command not found
hadoop@bmsccecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ls
'ACFrOgCu3h3sUnwp0NA9r5ZGDw7_C_49d0lf0e1dpiqetFZ8Ghfx-ugoCx6lMrnJLRY-IUXyqoEhx1Et01L483dCRqjzgFQvp5XHT-eAInKK5NXbdZsV2XfEr7ow55Wb8eY_3vAbH2TDL9KwBokfZ2eSd9boAfH5Vv2vjw==.pdf'
Desktop
Documents
Downloads
eclipse-workspace
hadoop
hadoop-3.3.0.tar.gz
hadoopdata
hs_err_pid5585.log
hs_err_pid8027.log
hs_err_pid8572.log
Music
Pictures
```

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hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -mkdir /abc
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /Hadoop
ls: '/Hadoop': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ls
ls: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ls
'ACFrOgCujhJ5Unwp0NA9r5ZGDw7_C_49d0lf0e1dpiqetFZ8Ghfx-ugoCx6lMrnJLRY-IUXyqoEhx1EtB1L483dCRqjzgfgQvp5XHT-eAinKK5NXbdZsV2XfEr7owS5Wb8eY_3vAbh2TDL9KwBokfZ2eSd9boAfh5Vv2vjw==.pdf'
Desktop
Documents
Downloads
eclipse-workspace
hadoop
hadoop-3.3.6.tar.gz
hadoopdata
hs_err_pid5585.log
hs_err_pid8027.log
hs_err_pid8572.log
Music
Pictures
Public
snap
Templates
Videos
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /hadoop
ls: '/hadoop': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -mkdir /hadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /hadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -put /home/hadoop/Desktop/Welcome.txt /abc/WC.txt
put: '/home/hadoop/Desktop/Welcome.txt': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ nano /home/hadoop/Desktop/welcome.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -put /home/hadoop/Desktop/welcome.txt /abc/WC.txt
put: '/home/hadoop/Desktop/Welcome.txt': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -put /home/hadoop/Desktop/welcome.txt /abc/WC.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -cat /abc/WC.txt
hii welcome to hadoop tutorial
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -put /home/hadoop/Desktop/welcome.txt /abc/WC.txtHadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ WC2.txthdfs dfs -cat /abc/WC2.txt
WC2.txthdfs: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ WC2.txthdfs dfs -cat /abc/WC2.txt
WC2.txthdfs: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ get [-crc]
Command 'get' not found, but there are 18 similar ones.
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -put /home/hadoop/Desktop/Welcome.txt /abc/WC.txtHadoop
put: '/abc/WC.txtHadoop': File exists
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ WC2.txthdfs dfs -cat /abc/WC2.txt
WC2.txthdfs: command not found
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cat /abc/WC2.txt
cat: '/abc/WC2.txt': No such file or directory
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cat /abc/WC.txt
hii welcome to hadoop tutorial
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -copyToLocal /abc/WC.txt /home/hadoop/Desktop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -cat /abc/WC.txt
hii welcome to hadoop tutorial
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ $

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