

LABORATORY PROGRAM – 4

Execution of HDFS Commands for interaction with Hadoop Environment. (Minimum 10 commands to be executed)

Command with output:

```
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 7043. Stop it first and ensure /tmp/hadoop-hadoop-namenode.pid file is empty before retry.
Starting datanodes
localhost: datanode is running as process 7227. Stop it first and ensure /tmp/hadoop-hadoop-datanode.pid file is empty before retry.
Starting secondary namenodes [bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC]
bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC: secondarynamenode is running as process 7521. Stop it first and ensure /tmp/hadoop-hadoop-secondarynamenode.pid file is empty before retry.
Starting resourcemanager
resourcemanager is running as process 7808. Stop it first and ensure /tmp/hadoop-hadoop-resourcemanager.pid file is empty before retry.
Starting nodemanagers
localhost: nodemanager is running as process 7969. Stop it first and ensure /tmp/hadoop-hadoop-nodemanager.pid file is empty before retry.
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hdfs dfs -mkdir /Lab06
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ nano file1.txt
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~/Desktop$ hadoop fs -mkdir /rgs
mkdir: '/rgs': File exists
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hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -mkdir /abc
mkdir: '/abc': File exists
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /
Found 5 items
drwxr-xr-x - hadoop supergroup          0 2025-04-15 14:27 /Lab06
drwxr-xr-x - hadoop supergroup          0 2024-05-14 14:45 /abc
drwxr-xr-x - hadoop supergroup          0 2024-05-14 14:46 /hadoop_lab
drwxr-xr-x - hadoop supergroup          0 2024-05-21 14:56 /output
drwxr-xr-x - hadoop supergroup          0 2025-04-15 14:34 /rgs
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -put /home/hadoop/Desktop/welcome.txt /abc/WC.txt
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -copyFromLocal /home/hadoop/Desktop/welcome.txt /abc/WC.txt
copyFromLocal: '/abc/WC.txt': File exists
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -get /abc/WC.txt /home/hadoop/Downloads/WWC.txt
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -getmerge /abc/ /home/hadoop/Desktop/Merge.txt
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -getfacl /abc/
# file: /abc
# owner: hadoop
# group: supergroup
user::rwx
group::r-x
other::r-x
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -copyToLocal /abc/WC.txt /home/hadoop/Desktop
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -cat /abc/WC.txt
hadoop is an open source platform
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -mv /abc/FFF /FFF
mv: '/abc/FFF': No such file or directory
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -mkdir /FFF
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -mv /abc /FFF
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cp /CSE/ /LLL
cp: '/CSE/': No such file or directory
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cp /abc/ /LLL
cp: '/abc/': No such file or directory
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cp /FFF/ /LLL
hadoop@bmscsecse-HP-Elite-Tower-800-G9-Desktop-PC:~$
```