

LAB-4

// start hadoop (must be in hduser)

\$ start-all.sh

```
hadoop@bmscscse-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]
Starting datanodes
Starting secondary namenodes [bmscscse-HP-Elite-Tower-800-G9-Desktop-PC]
Starting resourcemanager
Starting nodemanagers
```

// creating a directory inside hadoop -mkdir

\$ hdfs dfs -mkdir /bda_hadoop

```
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -mkdir /bda_hadoop
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -ls /
```

// listing all content inside hadoop - ls

\$ hadoop fs -ls /

```
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /
Found 1 items
drwxr-xr-x  - hadoop supergroup          0 2024-05-13 14:18 /bda_hadoop
```

// copyig files from desktop using put command - put

\$ hdfs dfs -put /home/hduser/Desktop/bda_local.txt /bda_hadoop/file.txt

```
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -put /home/hadoop/Desktop/bda_local.txt /bda_hadoop/file.txt
```

// cat command(listing the content of file in hadoop) -cat

\$ hdfs dfs -cat /bda_hadoop/file.txt

```
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -cat /bda_hadoop/file.txt
Hello
```

// copying files from local reference using copyFromLocal cmd.

\$ hdfs dfs -copyFromLocal /home/hduser/Desktop/bda_local.txt /bda_hadoop/file_cp_local.txt

\$ hdfs dfs -cat /bda_hadoop/file_cp_local.txt

```
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -copyFromLocal /home/hadoop/Desktop/bda_local.txt /bda_hadoop/file_cp_local.txt
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -cat /bda_hadoop/file_cp_local.txt
Hello
```

// get command

\$ hdfs dfs -get /bda_hadoop/file.txt /home/hduser/Downloads/downloaded_file.txt

\$ hdfs dfs -getmerge /bda_hadoop/file.txt /bda_hadoop/file_cp_local.txt
/home/hduser/Downloads/downloaded_file.txt

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -get /bda_hadoop/file.txt /home/hadoop/Desktop/downld.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -getmerge /bda_hadoop/file.txt /bda_hadoop/file_cp_local.txt /home/hadoop/Desktop/down2.txt
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -getfacl /bda_hadoop
```

```
$ hadoop fs -getfacl /bda_hadoop/
# file: /bda_hadoop
# owner: hduser
# group: supergroup
user::rwx
group::r-x
other::r-x
```

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -getfacl /bda_hadoop
# file: /bda_hadoop
# owner: hadoop
# group: supergroup
user::rwx
group::r-x
other::r-x
```

// copyToLocal

```
$ hdfs dfs -copyToLocal /bda_hadoop/file.txt /home/hduser/Desktop
```

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -copyToLocal /bda_hadoop/file.txt /home/hadoop/Desktop
```

// mv

```
$ hadoop fs -mv /bda_hadoop /abc
```

```
$ hadoop fs -ls /abc
```

Found 1 items

```
drwxr-xr-x - hduser supergroup 0 2022-06-06 11:52 /abc/bda_hadoop
```

// copy

```
$ hadoop fs -cp /abc/ /hadoop_lab
```

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hdfs dfs -mkdir /abc
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ls
Desktop  Downloads  hadoop-3.3.6.tar.gz  Music  Public  Templates
Documents  hadoop  hadoopdata  Pictures  snap  Videos
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -mv /bda_hadoop /abc
```

```
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /abc
Found 1 items
drwxr-xr-x - hadoop supergroup 0 2024-05-13 14:29 /abc/bda_hadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cp /abc/ /hadoop_lab
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /hadoop_lab
Found 1 items
drwxr-xr-x - hadoop supergroup 0 2024-05-13 14:44 /hadoop_lab/bda_hadoop
hadoop@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$
```