LAB – 4

Execution of HDFS commands for interaction with Hadoop environment.

// start hadoop (must be in hduser)

$ start-all.sh

// creating a directory inside hadoop -mkdir

$ hdfs dfs -mkdir /bda_hadoop

// listing all content inside hadoop - ls

$ hadoop fs -ls /

// copyig files from deskop using put command - put

$ hdfs dfs -put /home/hduser/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

// 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

// 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 fs -getacl /bda_hadoop/

file: /bda_hadoop

owner: hduser

Output screenshots:

```
hadoop@bmscecse-HP-Elite-Tower-600-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 [bmscecse-HP-Elite-Tower-600-G9-Desktop-PC]
Starting resourcemanager
Starting nodemanagers
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -mkdir /bda_hadoop
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -ls /
Found 4 items
drwxr-xr-x   - hadoop supergroup          0 2025-04-15 15:07 /abc
drwxr-xr-x   - hadoop supergroup          0 2025-05-26 14:13 /bda_hadoop
drwxr-xr-x   - hadoop supergroup          0 2025-05-22 16:32 /pqr
drwxr-xr-x   - hadoop supergroup          0 2025-05-20 16:36 /rgs
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -put /home/hadoop/sample.txt /bda_hadoop/file.txt
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -copyFromLocal /home/hadoop/sample.txt /bda_hadoop/local.txt
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -cat /bda_hadoop/file.txt
hi how are you
how is your job
how is your family
how is your brother
how is your sister
eof
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -get /bda_hadoop/file.txt /home/hadoop/sample.txt
get: `/home/hadoop/sample.txt': File exists
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -get /bda_hadoop/file.txt /home/hadoop/get.txt
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hadoop fs -getfacl /bda_hadoop/
# file: /bda_hadoop
# owner: hadoop
# group: supergroup
user::rwx
group::r-x
other::r-x

hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -copyToLocal /bda_hadoop/file.txt /home/hadoop/tolocal.txt
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hadoop fs -cp /bda_hadoop /abc
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hadoop fs -ls /abc
Found 3 items
drwxr-xr-x   - hadoop supergroup          0 2025-05-26 14:28 /abc/bda_hadoop
-rw-r--r--   1 hadoop supergroup         55 2025-04-15 15:05 /abc/file.txt
-rw-r--r--   1 hadoop supergroup         55 2025-04-15 15:07 /abc/file_cp_.txt
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$
```