# Practical 2 To implement Various Hadoop HDFS Commands

## Commands:

## 1)hadoop version

```
File Edit View Search Terminal Help

[cloudera@quickstart -]$ hadoop version

Hadoop 2.6 o-cdh5.13.0

Subversion http://github.com/cloudera/hadoop -r 42e8860b182e55321bd5f5605264da4adc8882be

Compiled by jenkins on 2017-10-04T18:08Z

Compiled with protoc 2.5.0

From source with checksum 5e84c185f8a22158e2b0e4b8f85311

This command was run using /usr/Llb/hadoop/hadoop-common-2.6.0-cdh5.13.0.jar

2) hdfs dfs -ls /

[cloudera@quickstart -]$ hdfs dfs -ls /
Found 6 items

drwxrwxrwx - hdfs supergroup

drwxr-xr-x - solr solr

drwxrwxrx-x - solr solr

3) hadoop fs -ls /

[cloudera@quickstart -]$ hadoop fs -ls /
Found 6 items

drwxrwxrx-x - hdfs supergroup

3) hadoop fs -ls /

Found 6 items

drwxrwxrx-x - hdfs supergroup

drwxr-xr-x - hdfs supergroup

0 2017-10-23 09:17 /user

drwxr-xr-x - hdfs supergroup

0 2017-10-23 09:15 /benchmarks

drwxrwxrx-x - hdfs supergroup

0 2017-10-23 09:17 /user

drwxr-xr-x - hdfs supergroup

0 2022-03-20 06:27 /hbase

drwxr-xr-x - hdfs supergroup

0 2022-03-20 06:27 /hbase

drwxr-xr-x - hdfs supergroup

0 2022-03-20 06:27 /tmp

drwxr-xr-x - hdfs supergroup

0 2027-10-23 09:17 /user

drwxr-xr-x - hdfs supergroup

0 2027-10-23 09:17 /user

drwxr-xr-x - hdfs supergroup

0 2027-03-20 06:27 /tmp

drwxr-xr-x - hdfs supergroup

0 2017-10-23 09:17 /user

drwxr-xr-x - hdfs supergroup

0 2022-03-20 06:27 /thp

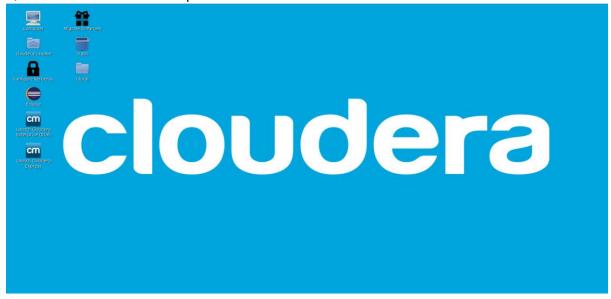
drwxr-xr-x - hdfs supergroup

0 2022-03-20 06:27 /tmp

drwxr-xr-x - hdfs supergroup

0 2022-03-20 06:27 /tmp
```

## 5)Create folder on desktop



#### 6)create file in desktop folder



## 7)Enter some text in the file



# 8)hdfs dfs -copyFromLocal /home/cloudera/Desktop/rjlocal/file01 /rjcit2122

## 9)hdfs dfs -put /home/cloudera/Desktop/rjlocal/file01 /rjcit2122

## → (Copy Local To Server)

```
[cloudera@quickstart -]$ hdfs dfs -put /home/cloudera/Desktop/rjlocal/file01 /rjcit2122 put: `/rjcit2122/file01': File exists [cloudera@quickstart -]$ hdfs dfs -ls /rjcit2122 Found 1 items -TW-r--r- 1 cloudera supergroup 33 2022-03-20 06:56 /rjcit2122/file01
```

## 10)hdfs dfs -copyFromLocal /home/cloudera/Desktop/rjlocal/file02 /rjcit2122

# → (Copy Local To Server)

```
[cloudera@quickstart -]$ hdfs dfs -copyFromLocal /home/cloudera/Desktop/rjlocal/file02 /rjcit2122 [cloudera@quickstart -]$ hdfs dfs -ls /rjcit2122 Found 2 items -rw-r--r- 1 cloudera supergroup 33 2022-03-20 06:56 /rjcit2122/file01 -rw-r--r- 1 cloudera supergroup 34 2022-03-20 08:11 /rjcit2122/file02
```

# 11)hdfs dfs -copyToLocal /rjcit2122/file02 /home/cloudera/Desktop/rjlocal

# → (Copy Server To Local)



#### 12)hdfs dfs -cat /rjcit2122/file01 $\rightarrow$ (Read command)

[cloudera@quickstart -]\$ hdfs dfs -cat /rjcit2122/file01 Hello Hrishikesh,
!! Welcome !!
[cloudera@quickstart ~]\$ hdfs dfs -cat /rjcit2122/file02 Hello Hrishikesh.
This is file 2.

## 13)hdfs dfs -cp /rjcit2122/file02 /newdir → (Copy command)

```
[cloudera@quickstart -]$ hdfs dfs -mkdir /newdir
[cloudera@quickstart -]$ hdfs dfs -ls /newdir
[cloudera@quickstart -]$ hdfs dfs -cp /rjcit2122/file02 /newdir
[cloudera@quickstart -]$ hdfs dfs -ls /newdir
Found 1 items
-n-v-r-r- 1 cloudera supergroup 34 2022-03-21 02:58 /newdir/file02
```

#### 14)hdfs dfs -mv /rjcit2122/file02 /newdir1 $\rightarrow$ (Move command)

```
[cloudera@quickstart -]$ hdfs dfs -mkdir /newdir1
[cloudera@quickstart -]$ hdfs dfs -ls /newdir1
[cloudera@quickstart -]$ hdfs dfs -nw /rjcit2122/file02 /newdir1
[cloudera@quickstart -]$ hdfs dfs -ls /newdir1
Found 1 items
-rw-r--r- 1 cloudera supergroup 34 2022-03-20 08:11 /newdir1/file02
[cloudera@quickstart -]$ hdfs dfs -cat /newdir1/file02
Hello Hrishikesh.
This is file 2.
```

# 15)hdfs dfs -rm /newdir2 → (Remove command)

```
[cloudera@quickstart -]$ hdfs dfs -mkdir /newdir2
[cloudera@quickstart -]$ hdfs dfs -cp /rjcit2122/file01 /newdir2
[cloudera@quickstart -]$ hdfs dfs -ls /newdir2
Found 1 items
-rw-r-r- 1 cloudera supergroup 33 2022-03-21 03:11 /newdir2/file01
[cloudera@quickstart -]$ hdfs dfs -cat /newdir2/file01
Hello Hrishikesh,

    !! Welcome !!

    [cloudera@quickstart -]$ hdfs dfs -rm /newdir2/file01

    [cloudera@quickstart -]$ hdfs dfs -ls /newdir2

    [cloudera@quickstart -]$ hdfs dfs -ls /rewdir2

    [rowsram.x.r.x - hdss | supergroup | 0 2027-03-00

    drwxr.x.r.x - cloudera supergroup | 0 2022-03-00

    drwxr.x.r.x - cloudera supergroup | 0 2022-03-00

    drwxr.x.r.x - cloudera supergroup | 0 2022-03-00

    drwxr.x.x - solr | 0 2017-10-00

    drwxr.x.x - solr | 0 2017-10-00

    drwxr.x.x - hdfs | supergroup | 0 2017-10-00

    drwxr.x.x - hdfs | supergroup | 0 2017-10-00

    cloudera@quickstart -]$ hdfs dfs -rm -r /newdir2

    Deleted /newdir2

                                                                                                                                                                                                           0 2017-10-23 09:15 /benchmarks
0 2022-03-20 06:27 /hbase
0 2022-03-21 02:58 /newdir
0 2022-03-21 03:09 /newdir1
0 2022-03-21 03:09 /newdir1
0 2022-03-21 03:09 /rjcit2122
0 2017-10-23 09:18 /solr
0 2022-03-20 06:27 /tmp
0 2017-10-23 09:17 /user
0 2017-10-23 09:17 /vser
Deleted /newdir2
```

# 16)hdfs dfs -expunge → Expunge Command (Empty Trash)

```
[cloudera@quickstart ~]$ hdfs dfs -expunge [cloudera@quickstart ~]$ \blacksquare
```

# 17)hdfs dfs -du /rjcit2122 → DU Command

[cloudera@quickstart -]s hdfs dfs -du /rjcit2122 33 33 /rjcit2122/file01 [cloudera@quickstart -]s hdfs dfs -du /newdir 34 34 /newdir/file02

# 18)hdfs dfs -df → DF Command

# 19)hdfs fsck /rjcit2122 → Fsck command

```
0 (0.0 %)
Missing replicas: 0 (0.0 %)
Number of data-nodes: 1
Number of racks: 1
FSCK ended at Mon Mar 21 04:08:30 PDT 2022 in 2 milliseconds
```

The filesystem under path '/rjcit2122' is HEALTHY

#### 20)hdfs fsck /rjcit2122 -files

```
20)hdts tsck /rjcit2122 -tiles

[cloudera@quickstart -js hdfs fsck /rjcit2122 -files
Connecting to namenode via http://quickstart.cloudera:50070/fsck?ugi=cloudera&files=1&path=%2Frjcit2122
FSCK started by cloudera (auth:SIMPLE) from /10.0.2.15 for path /rjcit2122 at Mon Mar 21 04:22:50 PDT 2022
/rjcit2122 -dir>
/rjcit2122 -dir
```

The filesystem under path '/rjcit2122' is HEALTHY