

BIG DATA LAB EVALAUATION-2

Name-Ankush Kumar

ROLL N0-55

REG NO-12204834

GROUP-2

Section-2212

Submitted to:

Dr. Poonam Ratan

UID: -- 26558

Q. Implements all the command of HDFS [Hadoop Distributed File System].

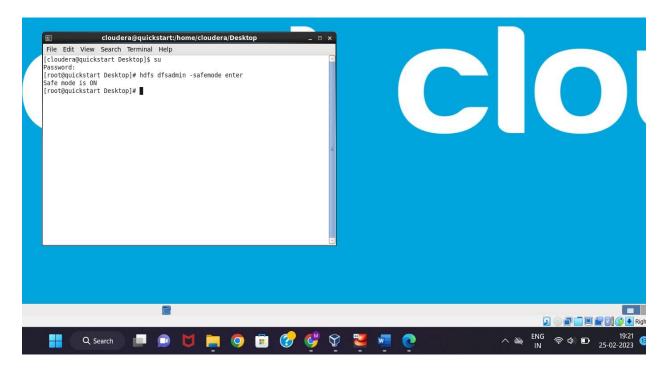
Explanation-Firstly I visit to to the cloudera CLI and using 'su' command to switch the user mode.

Then here I use HDFS commands which are as follows: --

--command which I used are

1-Command to enter the safe mode.

Using command: -" Hdfs dfsadmin -safemode enter".



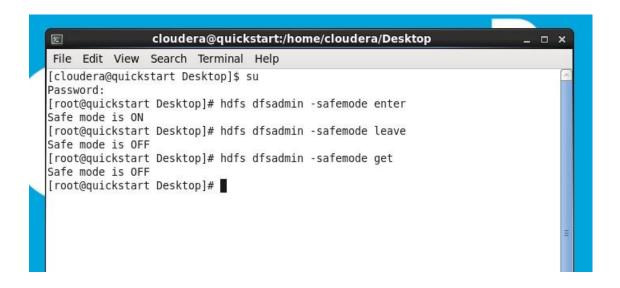
2-Here I use command to leave the safe mode.

Using command :-- "HDFS dfsadmin-safemode leave".

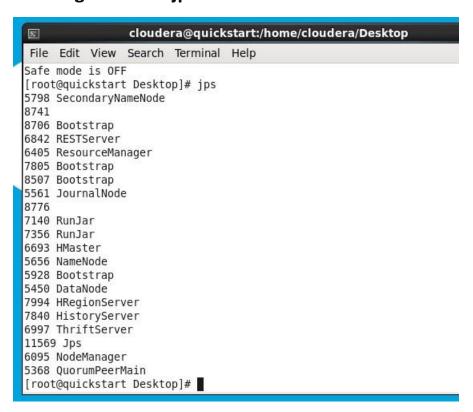


3-command to get the current status of safe mode.

Using command-"Hdfs dfsadmin -safemode get".



4-Now Here I use command to check the Hadoop service are working or not:--"jps"

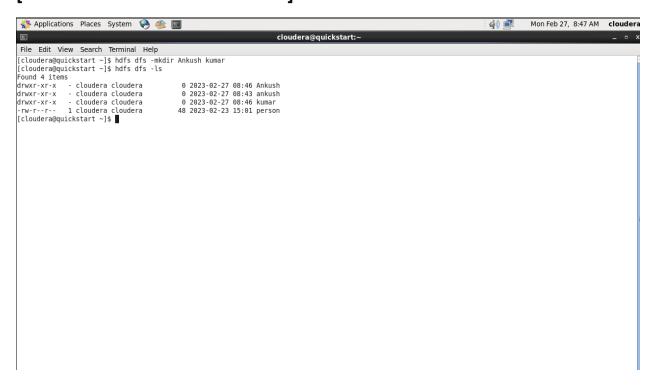


5-Now here I use command:--"Is" [hdfs dfs-Is/].

```
6095 NodeManager
5368 QuorumPeerMain
[root@quickstart Desktop]# hdfs dfs -ls /
Found 6 items
drwxrwxrwx - hdfs supergroup 0 2017-10-23 09:15 /benchmarks
drwxr-xr-x - hbase supergroup 0 2023-02-25 05:12 /hbase
drwxr-xr-x - solr solr 0 2017-10-23 09:18 /solr
drwxrwxrwt - hdfs supergroup 0 2023-02-02 08:46 /tmp
drwxr-xr-x - hdfs supergroup 0 2017-10-23 09:17 /user
drwxr-xr-x - hdfs supergroup 0 2017-10-23 09:17 /var
[root@quickstart Desktop]#
```

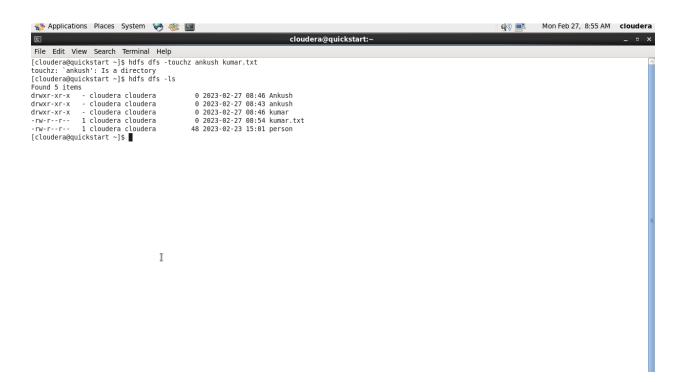
6. Now here I write "mkdir":--To create a one directory.

[hdfs dfs -mkdir Ankush kumar]



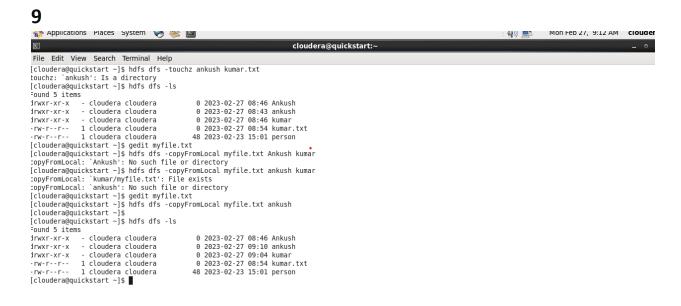
7-Now here I use touch command to create a empty file.

Command= (hdfs dfs -touchz ankush kumar/myFile.txt)



8-Now here I copy the file from local file to store hdfs.

[hdfs dfs -copy from local myFile.txt Ankush kumar]



9-Now I use cat command to print the content of a file

[hdfs dfs -cat ankush /myfile.txt]

```
Found 5 items

drwxr-xr-x - cloudera cloudera

drwxr-xr-x - 1 cloudera cloudera

elso 2023-02-27 09:04 kumar

elso 2023-02-27 08:54 kumar.txt

elso 48 2023-02-27 18:54 kumar.txt

elso 48 2023-02-23 15:01 person

[cloudera@quickstart ~]$ hdfs dfs -cat ankush/myfile.txt

hello

[cloudera@quickstart ~]$
```

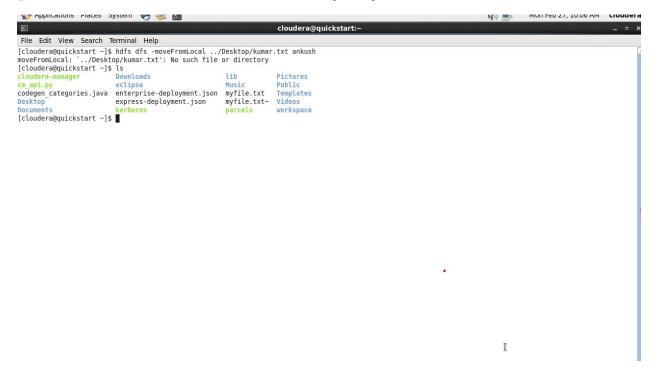
10-Now I use copy to local command to copy the file from hdfs to local file system.

[hdfs dfs -copyTOLocal kumar/myfile.txt../Desktop/]

```
😭 Applications Places System 🤫 👺 🔟
                                                                                                                                Tue Feb 28, 3:47 PM cloudera
                                                              cloudera@quickstart:/home/cloudera
 File Edit View Search Terminal Help
[root@quickstart cloudera]# hdfs dfs -copyToLocal ankush2/myfile.txt ../Desktop/
copyToLocal: `../Desktop/': No such file or directory
[root@quickstart cloudera]# hdfs dfs -CopyToLocal ankush2/myfile.txt ../Desktop
 -CopyToLocal: Unknown command
[root@quickstart cloudera]# ls
                                                                                                     Music parcels Templates myfile.txt Pictures Videos
                                                                           express-deployment.json Music
                                                                                                     myfile.txt~ Public
                                                                                                                             workspace
                                                                                                     Music parcels Templat
myfile.txt Pictures Videos
myfile.txt~ Public workspa
                                                                           express-deployment.json Music
                                                                           kerberos
                                   enterprise-deployment.json lib
```

11-Now here I use moveFromLocal command to move file local from hdfs

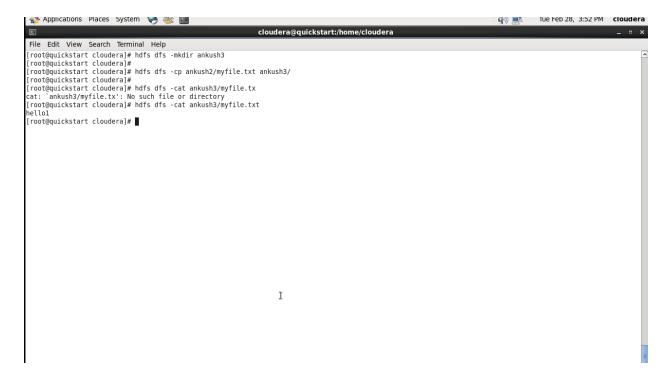
[hdfs dfs -moveFromLocal ../Desktop/myfile.txt kumar



12-. "cp": -- Used to copy files within hdfs.

Firstly, create a new directory "ankush3" and copy all file from "kumar" directory.

[hdfs dfs -cp kumar/myfile.txt ankush3/]



13-Now I use "mv" command to move files within hdfs.

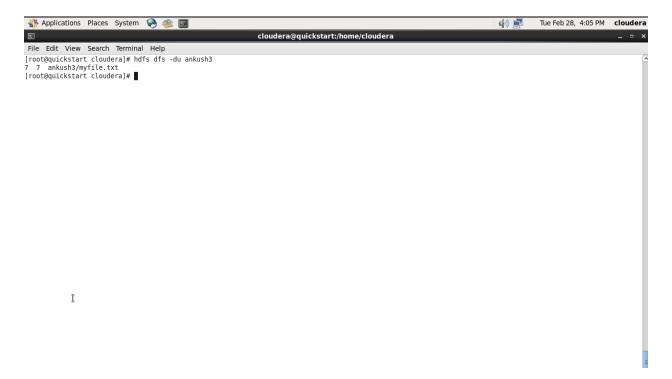
Now again I create a new directory "ankush4" and move "myfile.txt" from "ankush2" directory.

[hdfs dfs -mv ankush2/myfile.txt ankush4/]



14-Now I used "du" command to give the size of each file in directory.

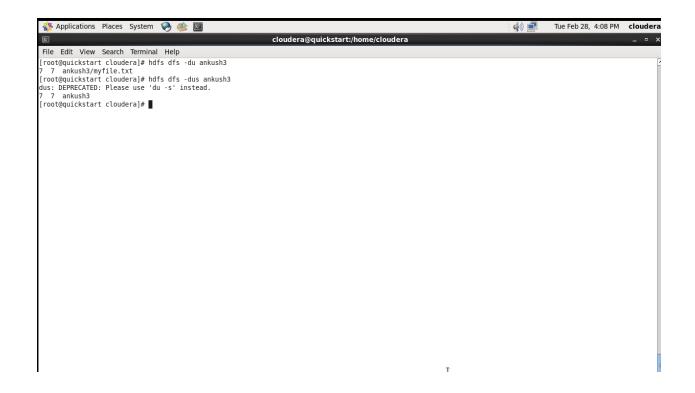
[hdfs dfs -du ankush3]



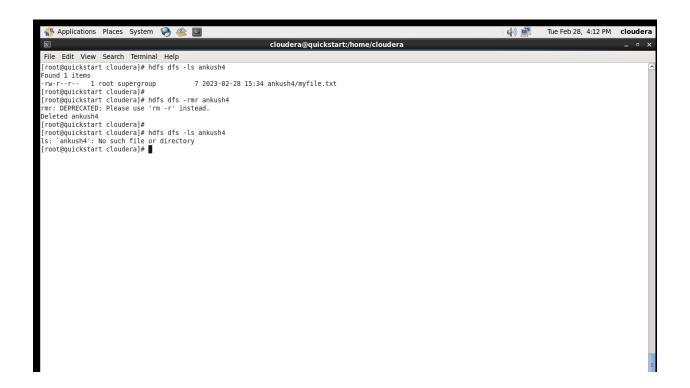
15-Now I used "dus" command to give the total size of directory

[hdfs dfs -dus ankush3]

It gave the same result because directory have a single file



16-Now I used "rmr" command to delete the files from HDFS.it also delete non-empty directory. [hdfs dfs -rmr ankush4]



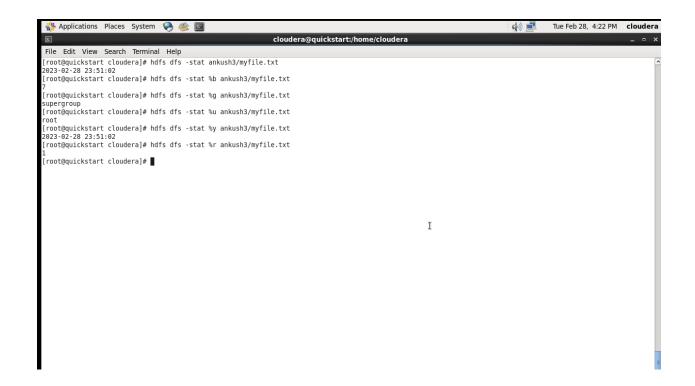
17-Here I use command "stat" it provide modification time of directory or path and it gives the stats of the directory or file.

[hdfs dfs -stat ankush3/myfile.txt]

[hdfs dfs -stat %g ankush3/myfile.txt]

[hdfs dfs -stat %u ankush3/myfile.txt]

[hdfs dfs -stat%y ankush3/myfile.txt]



18-Now here I use "setrep" command to change the replication factor of a file or directory.

By default, it is 3 for anything.

[hdfs dfs -setrep -R -w6 ankush3/myfile.txt]

