

HDFS Commands

After successful installation of Hadoop, we execute different HDFS Commands.

Open a new Windows Command Prompt and run below commands. C:\hadoop-2.9.1\hadoop-

2.9.1>cd bin ls: This command is used to list all the files. Use lsr for recursive approach. It is useful when we want a

hierarchy of a folder.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -ls /

Found 2 items

drwxr-xr-x - LENOVO supergroup

0 2023-02-27 20:06 /sampledir

drwxr-xr-x - LENOVO supergroup

0 2023-02-27 19:57 /test

mkdir: To create a directory. In Hadoop *dfs* there is no home directory by default.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -mkdir /user C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -mkdir /user/Lenovo

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -ls / Found

3 items

drwxr-xr-x - LENOVO supergroup 0 2023-02-27 20:06 /sampledir drwxr-xr-x - LENOVO supergroup 0 2023-02-27 19:57 /test

drwxr-xr-x - LENOVO supergroup

0 2023-02-27 20:23 /user

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -lsr /user lsr:

DEPRECATED: Please use 'ls -R' instead.

drwxr-xr-x - LENOVO supergroup

0 2023-02-27 20:23 /user/Lenovo

touchz: It creates an empty file.

 $\label{lem:c:hadoop-2.9.1} $$ C:\hadoop-2.9.1\bin>hdfs dfs -touchz /user/myfile.txt C:\hadoop-2.9.1\hadoop-$

2.9.1\bin>hdfs dfs -ls -R /user drwxr-xr-x - LENOVO supergroup 0 2023-02-27

20:23 /user/Lenovo -rw-r--r 1 LENOVO supergroup

0 2023-02-27 20:26

/user/myfile.txt



important command. Local filesystem means the files present on the OS. GINEERING (Autonomous College Affiliated to the University of Mumbai)



C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -put C:/hadoop-2.9.1/hadoop-2.9.1/Sample.txt /user

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -ls -R /user drwxr-xr-x - LENOVO supergroup

2023-02-27 20:23 /user/Lenovo -rw-r--r-- 1 LENOVO supergroup 12 2023-02-27 20:30

/user/Sample.txt -rw-r--r-- 1 LENOVO supergroup 0 2023-02-27 20:26 /user/myfile.txt

cat: To print file contents.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -cat /user/Sample.txt Hello Hadoop

copyToLocal (or) get: To copy files/folders from hdfs store to local file system.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -get /user/Sample.txt ../HadoopExamples

cp: This command is used to copy files within hdfs.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -mkdir /user_copied C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -cp /user /user_copied C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -ls /user_copied

Found 1 items

drwxr-xr-x - LENOVO supergroup 0 2023-02-27 20:48 /user_copied/user

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -ls /user Found 3 items drwxr-xr-x -

0 2023-02-27 20:23 /user/Lenovo LENOVO supergroup

-rw-r--r-- 1 LENOVO supergroup 12 2023-02-27 20:30 /user/Sample.txt

-rw-r--r-- 1 LENOVO supergroup 0 2023-02-27 20:26 /user/myfile.txt

my: This command is used to move files within hdfs.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -mv /user/myfile.txt /user_copied

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -ls /user Found

2 items

drwxr-xr-x - LENOVO supergroup 0 2023-02-27 20:23 /user/Lenovo

-rw-r--r 1 LENOVO supergroup 12 2023-02-27 20:30 /user/Sample.txt

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -ls /user copied

Found 2 items

-rw-r--r-- 1 LENOVO supergroup 0 2023-02-27 20:26 /user_copied/myfile.txt drwxr-xr-x LENOVO supergroup 0 2023-02-27 20:48 /user_copied/user

rmr: This command deletes a file from HDFS recursively. It is very useful command when you want to delete a *non-empty directory*.



C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -rmr /user_copied

rmr: DEPRECATED: Please use '-rm -r' instead.

Deleted /user_copied C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs ls /user copied ls: `/user copied': No such file or directory

du: It will give the size of each file in directory.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -du /user 0 /user/Lenovo 12 /user/Sample.txt

dus: This command will give the total size of directory/file.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -dus /user dus: DEPRECATED:

Please use 'du -s' instead.

12 /user

stat: It will give the last modified time of directory or path. In short it will give stats of the directory or file.

C:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -stat /user 2023-02-27 15:20:27

setrep: This command is used to change the replication factor of a file/directory in HDFS. By default it is 3 for anything which is stored in HDFS (as set in hdfs *core-site.xml*).

c:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -setrep -R 4 /user Replication

4 set: /user/Sample.txt

c:\hadoop-2.9.1\hadoop-2.9.1\bin>hdfs dfs -ls /user Found

2 items

drwxr-xr-x - LENOVO supergroup 0 2023-02-27 20:23 /user/Lenovo

-rw-r--r-- 4 LENOVO supergroup 12 2023-02-27 20:30 /user/Sample.txt

CONCLUSION: We have successfully execute different HDFS Commands.