**### LOCAL FILE SYSTEM ###**

pwd

ls

mkdir

cp

mv

Rm

Cat

Create new file and show cat command

Clear

#Local Commands

1.Current working directory – pwd (present working directory)

$ pwd

2.Get list of the files in that directory

$ ls

3.Create a new directory

$ mkdir test(filename)

4.Copy the content of the current directory to the new directory

$ cp trees.csv test

5.Change the working directory

$ cd test

6.Remove the file from the current directory

$ rm trees.csv

7.To go back to the previous directory

$ cd ..

8.To see the contents of the file

$ cat trees.csv

9.Move a file to another directory

$ mv trees.csv test

**### LISTING ROOT DIRECTORY ###**

hadoop fs -ls /

**### LISTING DEFAULT TO HOME DIRECTORY ###**

hadoop fs -ls

hadoop fs -ls /user/hirwuser150430

**### CREATE A DIRECTORY IN HDFS ###**

hadoop fs -mkdir hadoop-test1

**### COPY FROM LOCAL FS TO HDFS ###**

hadoop fs -copyFromLocal /hirw-starterkit/hdfs/commands/dwp-payments-april10.csv hadoop-test1

**### COPY TO HDFS TO LOCAL FS ###**

hadoop fs -copyToLocal hadoop-test1/dwp-payments-april10.csv .

hadoop fs -ls hadoop-test1

**### CREATE 2 MORE DIRECTORIES ###**

hadoop fs -mkdir hadoop-test2

hadoop fs -mkdir hadoop-test3

**### COPY A FILE FROM ONE FOLDER TO ANOTHER ###**

hadoop fs -cp hadoop-test1/dwp-payments-april10.csv hadoop-test2

**### MOVE A FILE FROM ONE FOLDER TO ANOTHER ###**

hadoop fs -mv hadoop-test1/dwp-payments-april10.csv hadoop-test3

**### CHECK REPLICATION ###**

hadoop fs -ls hadoop-test3

**### CHANGE OR SET REPLICATION FACTOR ###**

hadoop fs -Ddfs.replication=2 -cp hadoop-test2/dwp-payments-april10.csv hadoop-test2/test\_with\_rep2.csv

hadoop fs -ls hadoop-test2

hadoop fs -ls hadoop-test2/test\_with\_rep2.csv

**### CHANGING PERMISSIONS ###**

hadoop fs -chmod 777 hadoop-test2/test\_with\_rep2.csv

**### DELETE DIR/FILES IN HDFS ###**

hadoop fs -rm hadoop-test2/test\_with\_rep5.csv

hadoop fs -rm -r hadoop-test1

hadoop fs -rm -r hadoop-test2

hadoop fs -rm -r hadoop-test3

#Hadoop commands

1.To get the root directory

$ hadoop fs -ls /

2.Create a directory

$ hadoop fs -mkdir /hadoop-test-1

3.Check the directory present

$ hadoop fs -ls /

4.Copy the data from the local directory to the hadoop directory

$ hadoop fs -copyFromLocal /test/trees.csv /hadoop-test-1

5.Verify the file present in the hadoop directory

$ hadoop fs -ls /hadoop-test-1

6.Copy a file/data from hadoop directory to local directory (we created a new result directory)

$ hadoop fs -copyToLocal /hadoop-test-1/trees.csv result

7. Create new directories

$ hadoop fs -mkdir /hadoop-test-2

$ hadoop fs -mkdir /hadoop-test-3

8.Check for the directories present

$ hadoop fs -ls /

9.Copy the data/files from hadoop-test-1 to hadoop-test-2

$ hadoop fs -cp /hadoop-test-1/trees.csv /hadoop-test-2

10.Verify the file present in test-2 directory

$ hadoop fs -ls /hadoop-test-1

11.Move the data/files from hadoop-test-2 to hadoop-test-3

$ hadoop fs -mv /hadoop-test-2/trees.csv /hadoop-test-3

#. In Hadoop, the replication factor (RF) is the number of times each data block is replicated. The default replication factor is 3, but it can be changed.

The replication factor provides fault tolerance. For example, if the replication factor is 3, each block will have two more copies, each stored on a separate DataNode. If one DataNode fails, the data can still be accessed from the remaining two copies.

12.Change the replication factor after copying file from one directory to another

$ hadoop fs -Ddfs.replication=2 -cp /hadoop-test-3/trees.csv /hadoop-test-2

13.Verify the replication factor

$ hadoop fs -ls /hadoop-test-2

(we see the replication factor as 2)

14.To give read, write and execute permission to users, groups and others

$ hadoop fs -chmod 777 /hadoop-test-3/trees.csv

15.Verify the file present in the hadoop-test-3 directory

$ hadoop fs -ls /hadoop-test-3

(Now we can see all the permisisons are updated)

16.To remove a directory

$ hadoop fs -rm -r /hadoop-test-1

17.Check the directories present

$ hadoop fs -ls /

(We see only two directories are present)

18.To see the contents

$ hadoop fs -cat /hadoop-test-3/trees.csv