

Open a new Windows Command Prompt and run below commands.

```
C:\hadoop-2.9.1\hadoop-2.9.1>cd bin
```

1. **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
```

2. **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
```

3. **touchz:** It creates an empty file.

```
C:\hadoop-2.9.1\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
```

4. **copyFromLocal (or) put:** To copy files/folders from local file system to hdfs store. This is the most important command. Local filesystem means the files present on the OS.

```
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      0 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
```

5. **cat:** To print file contents.

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

6. **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
```

7. **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  - 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  
-rw-r--r--  1 LENOVO supergroup      0 2023-02-27 20:26 /user/myfile.txt
```

8. mv: 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
```

9. 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
```

10. 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
```

11. 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
```

12. 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
```

13. 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 -ls /user
```

```
Found 2 items
```

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

```
-rw-r--r--  6 LENOVO supergroup    12 2023-02-27 20:30 /user/Sample.txt
```