

# LAB5

## Hadoop Basic Commands

### 1. mkdir

Hadoop HDFS mkdir Command Usage

mkdir

Hadoop HDFS mkdir Command Example

```
hdfs dfs -mkdir /abc
```

Hadoop HDFS mkdir Command Description

This HDFS command takes path URI's as an argument and creates directories.

### 2. ls

Hadoop HDFS ls Command Usage

ls

Hadoop HDFS ls Command Example

```
hadoop fs -ls /
```

Hadoop HDFS ls Command Description

This Hadoop HDFS ls command displays a list of the contents of a directory specified by path provided by the user, showing the names, permissions, owner, size and modification date for each entry.

```
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -mkdir /lab5
22/06/01 14:33:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -ls /
22/06/01 14:34:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
Found 5 items
drwxr-xr-x  - hduser supergroup      0 2022-06-01 09:44 /abc
drwxr-xr-x  - hduser supergroup      0 2022-06-01 09:38 /dsf
drwxr-xr-x  - hduser supergroup      0 2022-06-01 14:33 /lab5
drwxr-xr-x  - hduser supergroup      0 2022-06-01 10:13 /lol
-rw-r--r--  1 hduser supergroup      7 2022-06-01 09:45 /user1
```

### 3. put

Hadoop HDFS put Command Usage

put

Hadoop HDFS put Command Example

```
hdfs dfs -put /home/hduser/Desktop/Welcome.txt /abc/WC.txt
```

Hadoop

HDFS put Command Description

This hadoop basic command copies the file or directory from the local file system to the destination within the DFS.

Display the contents of the file WC.txt

```
hdfs dfs -cat /abc/WC.txt
```

```
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -put Desktop/dummy/local.txt /lab5/abcd.txt
22/06/01 14:50:17 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -cat /lab5/abcd.txt
22/06/01 14:50:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
This is Lab 5
```

#### 4. copyFromLocal

Hadoop HDFS copyFromLocal Command Usage

copyFromLocal

Hadoop HDFS copyFromLocal Command Example

```
hdfs dfs -put /home/hduser/Desktop/Welcome.txt /abc/WC.txt
```

Hadoop HDFS copyFromLocal Command Description

This hadoop shell command is similar to put command, but the source is restricted to a local file reference.

Display the contents of the file WC2.txt

```
hdfs dfs -cat /abc/WC2.txt
```

```
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -copyFromLocal Desktop/dummy/local2.txt /lab5/ab.txt
22/06/01 14:53:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -cat /lab5/ab.txt
22/06/01 14:53:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform
This is a demo file
```

#### 5. get

Hadoop HDFS get Command Usage

get [-crc]

i.Hadoop HDFS get Command Example

```
hdfs dfs -get /abc/WC.txt /home/hduser/Downloads/WWC.txt
```

This HDFS fs command copies the file or directory in HDFS identified by the source to the local file system path identified by local destination.

ii.Hadoop HDFS get Command Example

```
hdfs dfs -getmerge /abc/WC.txt /abc/WC2.txt /home/hduser/Desktop/Merge.txt
```

This HDFS basic command retrieves all files that match to the source path entered by the user in HDFS, and creates a copy of them to one single, merged file in the local file system identified by local destination.

### iii. Hadoop HDFS get Command Example

```
hadoop fs -getfacl /abc/
```

This Apache Hadoop command shows the Access Control Lists (ACLs) of files and directories.

```
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -get /lab5/ab.txt Desktop/dummy/local4.txt
22/06/01 14:59:51 WARN util.NativeCodeLoader: Unable to load native-hadoop library for yo
hduser@bmsce-OptiPlex-3060:~$ cat Desktop/dummy/local4.txt
This is a demo file
```

### 6. copyToLocal

Hadoop HDFS copyToLocal Command Usage

copyToLocal

Hadoop HDFS copyToLocal Command Example

```
hdfs dfs -copyToLocal /abc/WC.txt /home/hduser/Desktop
```

Similar to get command, only the difference is that in this the destination is restricted to a local file reference.

```
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -copyToLocal /lab5/abcd.txt Desktop/dummy/local5.txt
22/06/01 15:02:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your pla
hduser@bmsce-OptiPlex-3060:~$ cat Desktop/dummy/local5.txt
This is Lab 5
```

### 7. cat

Hadoop HDFS cat Command Usage

cat

Hadoop HDFS cat Command Example

```
hdfs dfs -cat /abc/WC.txt
```

This Hadoop fs shell command displays the contents of the filename on console or stdout.

### 8. mv

Hadoop HDFS mv Command Usage

mv

Hadoop HDFS mv Command Example

```
hadoop fs -mv /abc /FFF
```

```
hadoop fs -ls /FFF
```

This basic HDFS command moves the file or directory indicated by the source to destination, within HDFS.

```
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -mv /newlab5/ /newlab52
22/06/01 15:08:15 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -ls /newlab52
22/06/01 15:08:26 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
Found 3 items
-rw-r--r--  1 hduser supergroup      20 2022-06-01 14:53 /newlab52/ab.txt
-rw-r--r--  1 hduser supergroup       0 2022-06-01 14:42 /newlab52/abc.txt
-rw-r--r--  1 hduser supergroup     15 2022-06-01 14:50 /newlab52/abcd.txt
```

9. cp

Hadoop HDFS cp Command Usage

cp

Hadoop HDFS cp Command Example

```
hadoop fs -cp /CSE/ /LLL
```

```
hadoop fs -ls /LLL
```

The cp command copies a file from one directory to another directory within the HDFS.

```
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -cp /lab5 /lab52
22/06/01 15:03:33 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -ls /lab52
22/06/01 15:03:44 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
Found 1 items
drwxr-xr-x  - hduser supergroup       0 2022-06-01 15:03 /lab52/lab5
hduser@bmsce-OptiPlex-3060:~$ hdfs dfs -ls /lab52/lab5
22/06/01 15:04:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
Found 3 items
-rw-r--r--  1 hduser supergroup      20 2022-06-01 15:03 /lab52/lab5/ab.txt
-rw-r--r--  1 hduser supergroup       0 2022-06-01 15:03 /lab52/lab5/abc.txt
-rw-r--r--  1 hduser supergroup     15 2022-06-01 15:03 /lab52/lab5/abcd.txt
```