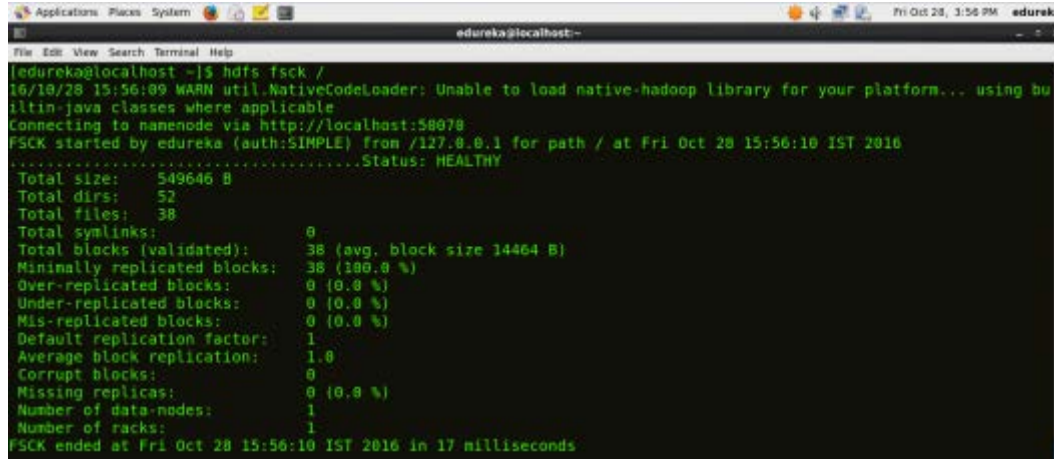


# HDFS Commands

## fsck

HDFS Command to check the health of the Hadoop file system.

**Command:** `hdfs fsck /`

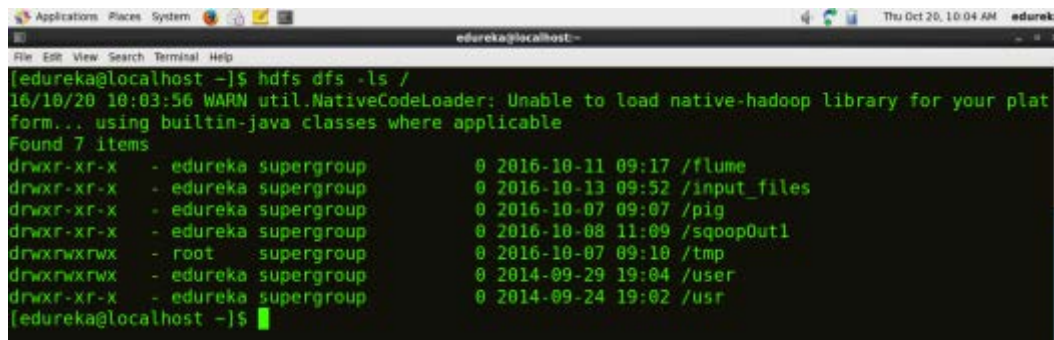


```
edureka@localhost:~$ hdfs fsck /
16/10/20 15:56:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Connecting to namenode via http://localhost:58070
FSCK started by edureka (auth:SIMPLE) from /127.0.0.1 for path / at Fri Oct 20 15:56:10 IST 2016
.....Status: HEALTHY
Total size:      549646 B
Total dirs:      52
Total files:     38
Total symlinks:   0
Total blocks (validated): 38 (avg. block size 14464 B)
Minimally replicated blocks: 38 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 0 (0.0 %)
Mis-replicated blocks: 0 (0.0 %)
Default replication factor: 1
Average block replication: 1.0
Corrupt blocks: 0
Missing replicas: 0 (0.0 %)
Number of data-nodes: 1
Number of racks: 1
FSCK ended at Fri Oct 20 15:56:10 IST 2016 in 17 milliseconds
```

## ls

HDFS Command to display the list of Files and Directories in HDFS.

**Command:** `hdfs dfs -ls /`



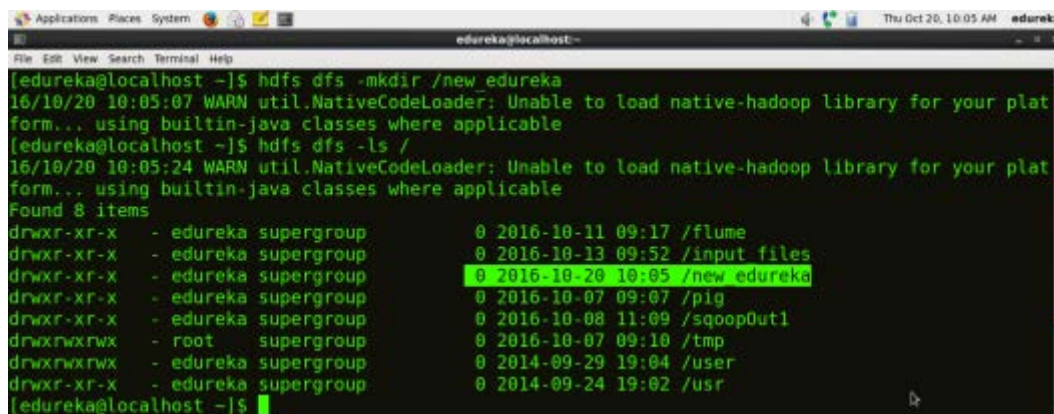
```
edureka@localhost:~$ hdfs dfs -ls /
16/10/20 10:03:56 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 7 items
drwxr-xr-x - edureka supergroup      0 2016-10-11 09:17 /flume
drwxr-xr-x - edureka supergroup      0 2016-10-13 09:52 /input_files
drwxr-xr-x - edureka supergroup      0 2016-10-07 09:07 /pig
drwxr-xr-x - edureka supergroup      0 2016-10-08 11:09 /sqoopOut1
drwxrwxrwx - root   supergroup      0 2016-10-07 09:10 /tmp
drwxrwxrwx - edureka supergroup      0 2014-09-29 19:04 /user
drwxr-xr-x - edureka supergroup      0 2014-09-24 19:02 /usr
edureka@localhost:~$
```

## mkdir

HDFS Command to create the directory in HDFS.

**Usage:** `hdfs dfs -mkdir /directory_name`

**Command:** `hdfs dfs -mkdir /new_edureka`



```
edureka@localhost:~$ hdfs dfs -mkdir /new_edureka
16/10/20 10:05:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
edureka@localhost:~$ hdfs dfs -ls /
16/10/20 10:05:24 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 8 items
drwxr-xr-x - edureka supergroup      0 2016-10-11 09:17 /flume
drwxr-xr-x - edureka supergroup      0 2016-10-13 09:52 /input_files
drwxr-xr-x - edureka supergroup      0 2016-10-20 10:05 /new_edureka
drwxr-xr-x - edureka supergroup      0 2016-10-07 09:07 /pig
drwxr-xr-x - edureka supergroup      0 2016-10-08 11:09 /sqoopOut1
drwxrwxrwx - root   supergroup      0 2016-10-07 09:10 /tmp
drwxrwxrwx - edureka supergroup      0 2014-09-29 19:04 /user
drwxr-xr-x - edureka supergroup      0 2014-09-24 19:02 /usr
edureka@localhost:~$
```

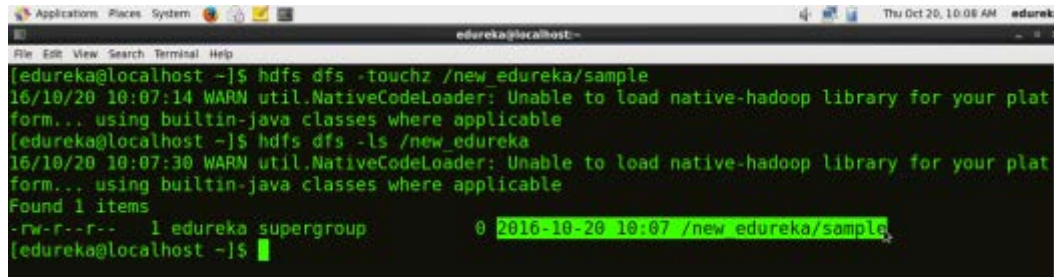
**Note:** Here we are trying to create a directory named "new\_edureka" in HDFS.

## touchz

HDFS Command to create a file in HDFS with file size 0 bytes.

**Usage:** `hdfs dfs -touchz /directory/filename`

**Command:** `hdfs dfs -touchz /new_edureka/sample.`



```
Applications Places System Thu Oct 20, 10:06 AM edureka
[edureka@localhost ~]$ hdfs dfs -touchz /new_edureka/sample
16/10/20 10:07:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
[edureka@localhost ~]$ hdfs dfs -ls /new_edureka
16/10/20 10:07:30 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
Found 1 items
-rw-r--r-- 1 edureka supergroup 0 2016-10-20 10:07 /new_edureka/sample
[edureka@localhost ~]$
```

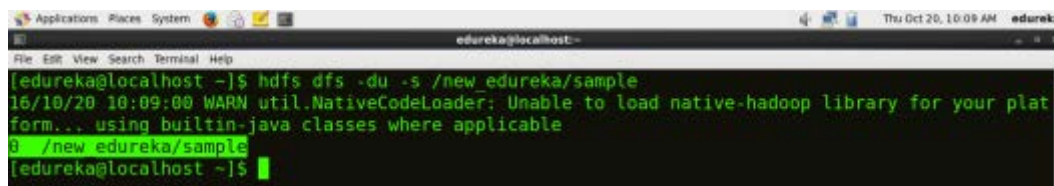
**Note:** Here we are trying to create a file named “sample” in the directory “new\_edureka” of hdfs with file size 0 bytes.

## du

HDFS Command to check the file size.

**Usage:** `hdfs dfs -du -s /directory/filename`

**Command:** `hdfs dfs -du -s /new_edureka/sample`



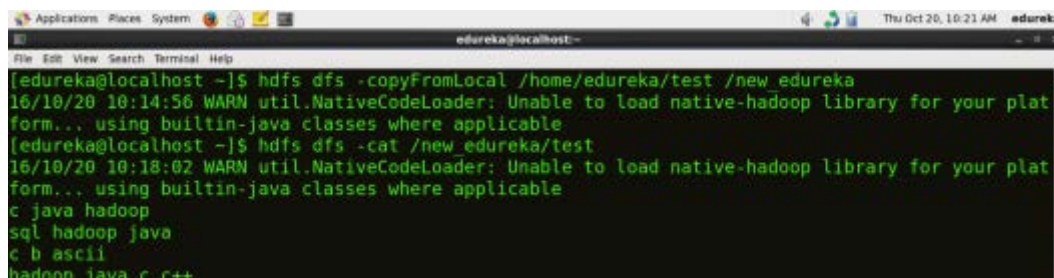
```
Applications Places System Thu Oct 20, 10:09 AM edureka
[edureka@localhost ~]$ hdfs dfs -du -s /new_edureka/sample
16/10/20 10:09:00 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
0 /new_edureka/sample
[edureka@localhost ~]$
```

## cat

HDFS Command that copies source paths to stdout.

**Usage:** `hdfs dfs -cat /path/to/file_in_hdfs`

**Command:** `hdfs dfs -cat /new_edureka/test`



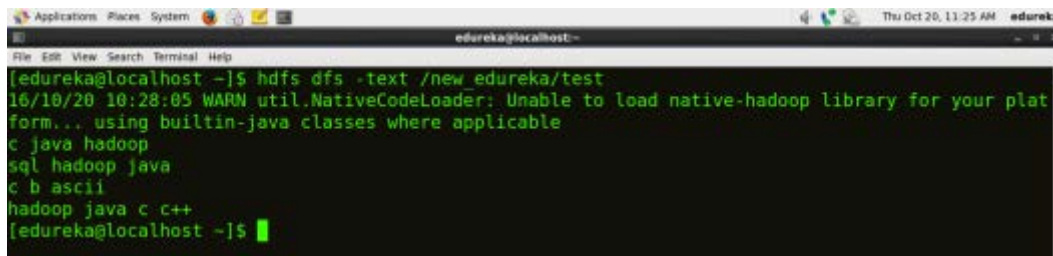
```
Applications Places System Thu Oct 20, 10:21 AM edureka
[edureka@localhost ~]$ hdfs dfs -copyFromLocal /home/edureka/test /new_edureka
16/10/20 10:14:56 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
[edureka@localhost ~]$ hdfs dfs -cat /new_edureka/test
16/10/20 10:18:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
c java hadoop
sql hadoop java
c b ascii
hadoop java c c++
```

## text

HDFS Command that takes a source file and outputs the file in text format.

**Usage:** `hdfs dfs -text /directory/filename`

**Command:** `hdfs dfs -text /new_edureka/test`

A terminal window titled 'edureka@localhost' showing a series of commands and their outputs. The first command is 'hdfs dfs -text /new\_edureka/test', which results in a warning message: '16/10/20 10:28:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable'. Subsequent commands include 'c java hadoop', 'sql hadoop java', 'c b ascii', and 'hadoop java c c++'.

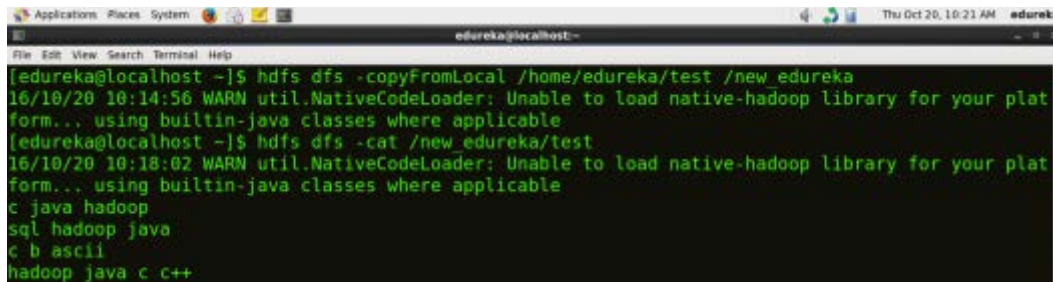
```
[edureka@localhost ~]$ hdfs dfs -text /new_edureka/test
16/10/20 10:28:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
c java hadoop
sql hadoop java
c b ascii
hadoop java c c++
[edureka@localhost ~]$
```

## copyFromLocal

HDFS Command to copy the file from Local file system to HDFS.

**Usage:** `hdfs dfs -copyFromLocal <localsrc> <hdfs destination>`

**Command:** `hdfs dfs -copyFromLocal /home/edureka/test /new_edureka`

A terminal window titled 'edureka@localhost' showing the execution of 'hdfs dfs -copyFromLocal /home/edureka/test /new\_edureka' and 'hdfs dfs -cat /new\_edureka/test'. Both commands result in the same warning message about the native-hadoop library. Subsequent commands include 'c java hadoop', 'sql hadoop java', 'c b ascii', and 'hadoop java c c++'.

```
[edureka@localhost ~]$ hdfs dfs -copyFromLocal /home/edureka/test /new_edureka
16/10/20 10:14:56 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[edureka@localhost ~]$ hdfs dfs -cat /new_edureka/test
16/10/20 10:18:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
c java hadoop
sql hadoop java
c b ascii
hadoop java c c++
```

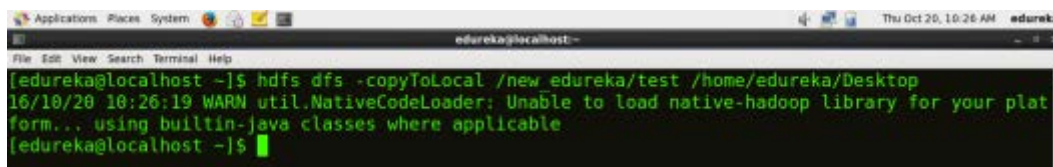
**Note:** Here test is the file present in the local directory /home/edureka and after the command gets executed the test file will be copied in /new\_edureka directory of HDFS.

## copyToLocal

HDFS Command to copy the file from HDFS to Local File System.

**Usage:** `hdfs dfs -copyToLocal <hdfs source> <localdst>`

**Command:** `hdfs dfs -copyToLocal /new_edureka/test /home/edureka`

A terminal window titled 'edureka@localhost' showing the execution of 'hdfs dfs -copyToLocal /new\_edureka/test /home/edureka/Desktop'. The command results in the same warning message about the native-hadoop library. Subsequent commands include 'c java hadoop', 'sql hadoop java', 'c b ascii', and 'hadoop java c c++'.

```
[edureka@localhost ~]$ hdfs dfs -copyToLocal /new_edureka/test /home/edureka/Desktop
16/10/20 10:26:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[edureka@localhost ~]$
```

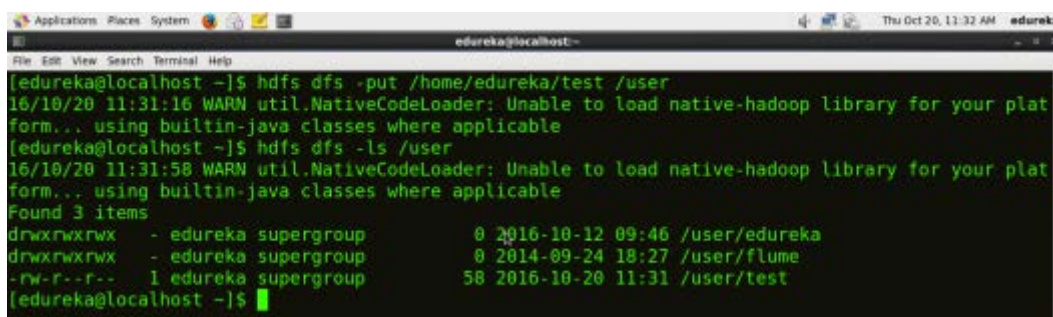
**Note:** Here test is a file present in the new\_edureka directory of HDFS and after the command gets executed the test file will be copied to local directory /home/edureka

## put

HDFS Command to copy single source, or multiple sources from local file system to the destination file system.

**Usage:** `hdfs dfs -put <localsrc> <destination>`

**Command:** `hdfs dfs -put /home/edureka/test /user`

A terminal window titled 'edureka@localhost' showing the execution of 'hdfs dfs -put /home/edureka/test /user' and 'hdfs dfs -ls /user'. The first command results in the warning message. The second command lists the contents of the /user directory, showing three items: edureka supergroup, flume, and test.

```
[edureka@localhost ~]$ hdfs dfs -put /home/edureka/test /user
16/10/20 11:31:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[edureka@localhost ~]$ hdfs dfs -ls /user
16/10/20 11:31:58 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 3 items
drwxrwxrwx - edureka supergroup 0 2016-10-12 09:46 /user/edureka
drwxrwxrwx - edureka supergroup 0 2014-09-24 18:27 /user/flume
-rw-r--r-- 1 edureka supergroup 58 2016-10-20 11:31 /user/test
[edureka@localhost ~]$
```



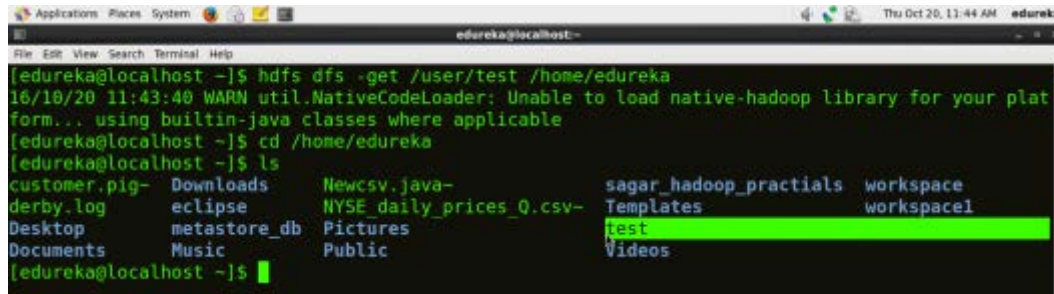
**Note:** The command copyFromLocal is similar to put command, except that the source is restricted to a local file reference.

## get

HDFS Command to copy files from hdfs to the local file system.

**Usage:** hdfs dfs -get <src> <localdst>

**Command:** hdfs dfs -get /user/test /home/edureka

A terminal window titled 'edureka@localhost' showing the execution of the command 'hdfs dfs -get /user/test /home/edureka'. The output shows a warning message about the native-hadoop library and then the command 'cd /home/edureka' is executed. Finally, the 'ls' command is run, displaying a directory listing where the 'test' directory is highlighted in green. The directory listing includes files like customer.pig, derby.log, Desktop, Documents, Downloads, eclipse, metastore\_db, Music, Newcsv.java, NYSE\_daily\_prices\_Q.csv, Pictures, Public, sagar\_hadoop\_practials, Templates, workspace, and workspace1.

```
[edureka@localhost ~]$ hdfs dfs -get /user/test /home/edureka
16/10/20 11:43:40 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
[edureka@localhost ~]$ cd /home/edureka
[edureka@localhost ~]$ ls
customer.pig- Downloads Newcsv.java- sagar_hadoop_practials workspace
derby.log      eclipse NYSE_daily_prices_Q.csv- Templates workspace1
Desktop       metastore_db Pictures test
Documents    Music Public Videos
[edureka@localhost ~]$
```

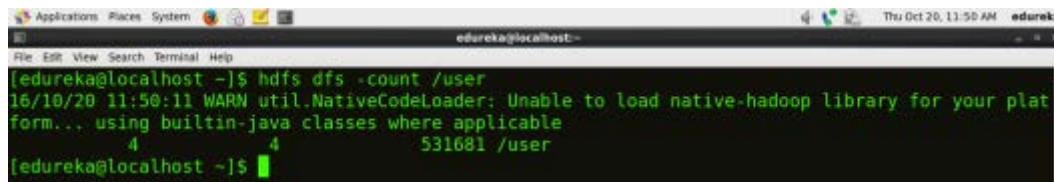
**Note:** The command copyToLocal is similar to get command, except that the destination is restricted to a local file reference.

## count

HDFS Command to count the number of directories, files and bytes under the paths that match the specified file pattern.

**Usage:** hdfs dfs -count <path>

**Command:** hdfs dfs -count /user

A terminal window titled 'edureka@localhost' showing the execution of the command 'hdfs dfs -count /user'. The output shows a warning message about the native-hadoop library and then the command 'hdfs dfs -count /user' is executed, resulting in the output '4 4 531681 /user'.

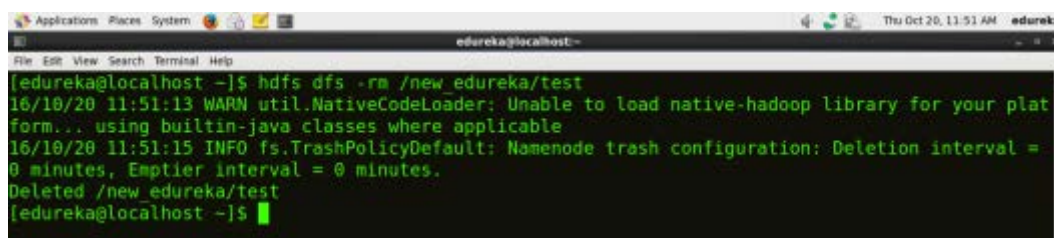
```
[edureka@localhost ~]$ hdfs dfs -count /user
16/10/20 11:50:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
4 4 531681 /user
[edureka@localhost ~]$
```

## rm

HDFS Command to remove the file from HDFS.

**Usage:** hdfs dfs -rm <path>

**Command:** hdfs dfs -rm /new\_edureka/test

A terminal window titled 'edureka@localhost' showing the execution of the command 'hdfs dfs -rm /new\_edureka/test'. The output shows a warning message about the native-hadoop library, followed by an info message about the trash policy, and finally the confirmation 'Deleted /new\_edureka/test'.

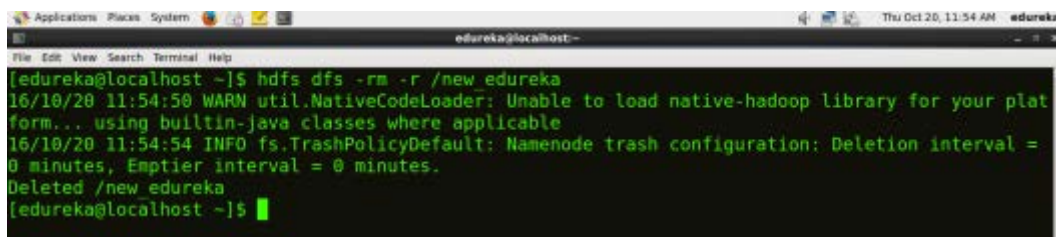
```
[edureka@localhost ~]$ hdfs dfs -rm /new_edureka/test
16/10/20 11:51:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
16/10/20 11:51:15 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval =
0 minutes, Emptier interval = 0 minutes.
Deleted /new_edureka/test
[edureka@localhost ~]$
```

## rm -r

HDFS Command to remove the entire directory and all of its content from HDFS.

**Usage:** hdfs dfs -rm -r <path>

**Command:** hdfs dfs -rm -r /new\_edureka



```
Applications Places System Thu Oct 20, 11:54 AM edureka
File Edit View Search Terminal Help
[edureka@localhost ~]$ hdfs dfs -rm -r /new_edureka
16/10/20 11:54:50 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
16/10/20 11:54:54 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval =
0 minutes, Emptier interval = 0 minutes.
Deleted /new_edureka
[edureka@localhost ~]$
```

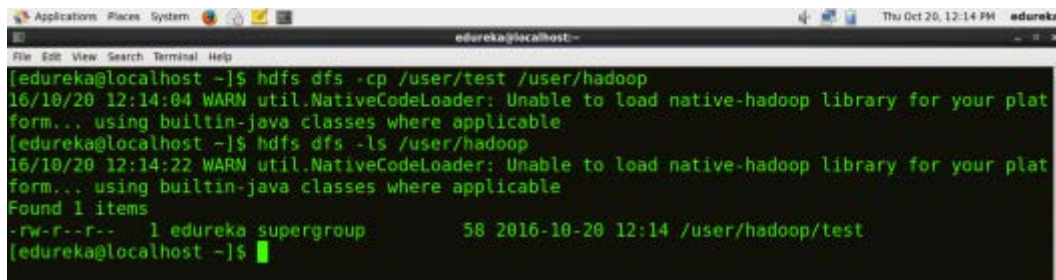
## cp

HDFS Command to copy files from source to destination. This command allows multiple sources as well, in which case the destination must be a directory.

**Usage:** `hdfs dfs -cp <src> <dest>`

**Command:** `hdfs dfs -cp /user/hadoop/file1 /user/hadoop/file2`

**Command:** `hdfs dfs -cp /user/hadoop/file1 /user/hadoop/file2 /user/hadoop/dir`



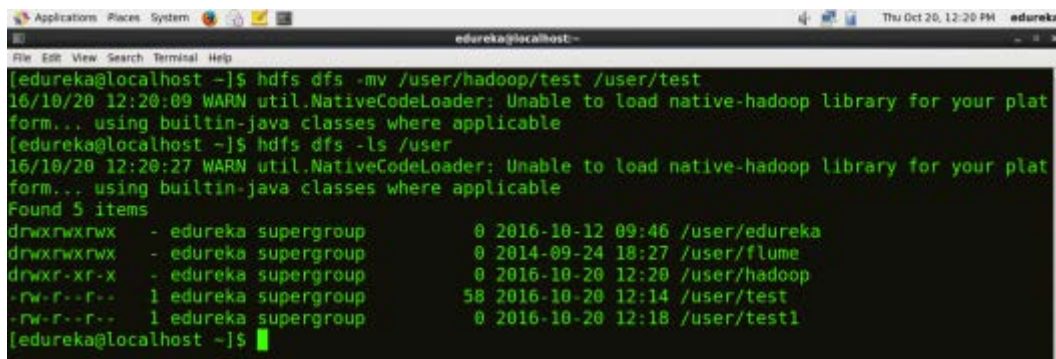
```
Applications Places System Thu Oct 20, 12:14 PM edureka
File Edit View Search Terminal Help
[edureka@localhost ~]$ hdfs dfs -cp /user/test /user/hadoop
16/10/20 12:14:04 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
[edureka@localhost ~]$ hdfs dfs -ls /user/hadoop
16/10/20 12:14:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
Found 1 items
-rw-r--r-- 1 edureka supergroup 58 2016-10-20 12:14 /user/hadoop/test
[edureka@localhost ~]$
```

## mv

HDFS Command to move files from source to destination. This command allows multiple sources as well, in which case the destination needs to be a directory.

**Usage:** `hdfs dfs -mv <src> <dest>`

**Command:** `hdfs dfs -mv /user/hadoop/file1 /user/hadoop/file2`

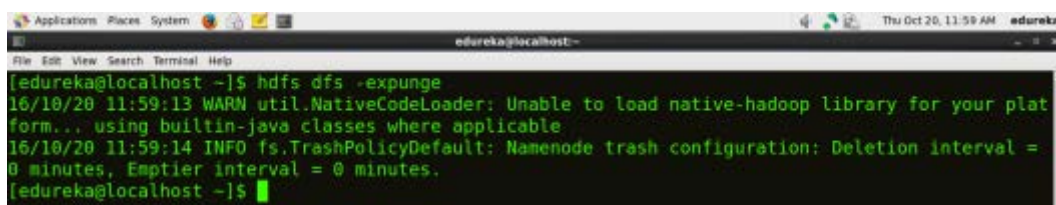


```
Applications Places System Thu Oct 20, 12:20 PM edureka
File Edit View Search Terminal Help
[edureka@localhost ~]$ hdfs dfs -mv /user/hadoop/test /user/test
16/10/20 12:20:09 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
[edureka@localhost ~]$ hdfs dfs -ls /user
16/10/20 12:20:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
Found 5 items
drwxrwxrwx - edureka supergroup 0 2016-10-12 09:46 /user/edureka
drwxrwxrwx - edureka supergroup 0 2014-09-24 18:27 /user/flume
drwxr-xr-x - edureka supergroup 0 2016-10-20 12:20 /user/hadoop
-rw-r--r-- 1 edureka supergroup 58 2016-10-20 12:14 /user/test
-rw-r--r-- 1 edureka supergroup 0 2016-10-20 12:18 /user/test1
[edureka@localhost ~]$
```

## expunge

HDFS Command that makes the trash empty.

**Command:** `hdfs dfs -expunge`



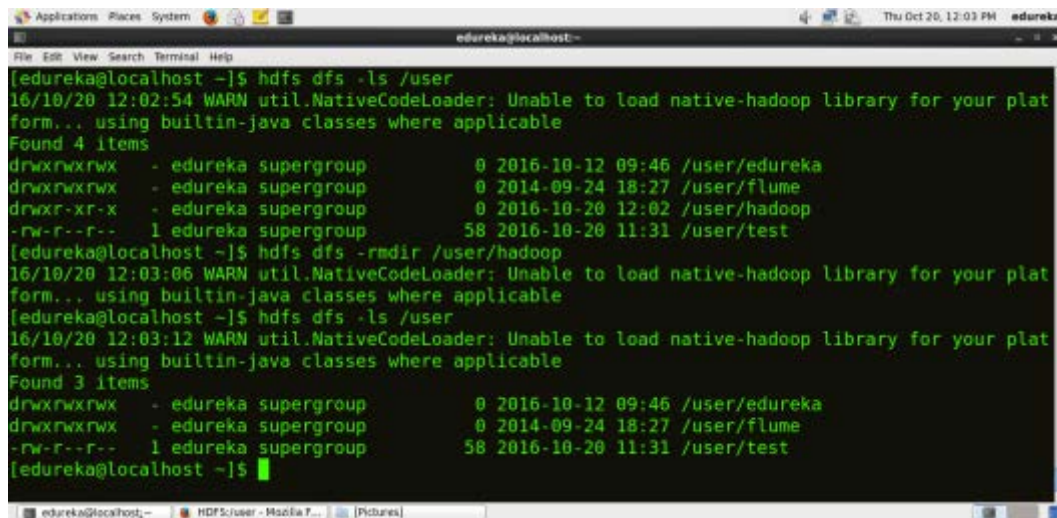
```
Applications Places System Thu Oct 20, 11:59 AM edureka
File Edit View Search Terminal Help
[edureka@localhost ~]$ hdfs dfs -expunge
16/10/20 11:59:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
16/10/20 11:59:14 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval =
0 minutes, Emptier interval = 0 minutes.
[edureka@localhost ~]$
```

## rmdir

HDFS Command to remove the directory.

**Usage:** `hdfs dfs -rmdir <path>`

**Command:** `hdfs dfs -rmdir /user/hadoop`



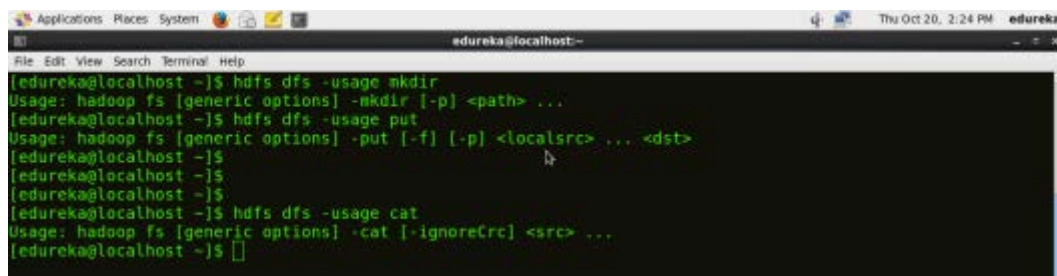
```
edureka@localhost:~$ hdfs dfs -ls /user
16/10/20 12:02:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
Found 4 items
drwxrwxrwx - edureka supergroup          0 2016-10-12 09:46 /user/edureka
drwxrwxrwx - edureka supergroup          0 2014-09-24 18:27 /user/flume
drwxr-xr-x - edureka supergroup          0 2016-10-20 12:02 /user/hadoop
-rw-r--r--  1 edureka supergroup        58 2016-10-20 11:31 /user/test
edureka@localhost:~$ hdfs dfs -rmdir /user/hadoop
16/10/20 12:03:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
edureka@localhost:~$ hdfs dfs -ls /user
16/10/20 12:03:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable
Found 3 items
drwxrwxrwx - edureka supergroup          0 2016-10-12 09:46 /user/edureka
drwxrwxrwx - edureka supergroup          0 2014-09-24 18:27 /user/flume
-rw-r--r--  1 edureka supergroup        58 2016-10-20 11:31 /user/test
edureka@localhost:~$
```

## usage

HDFS Command that returns the help for an individual command.

**Usage:** `hdfs dfs -usage <command>`

**Command:** `hdfs dfs -usage mkdir`



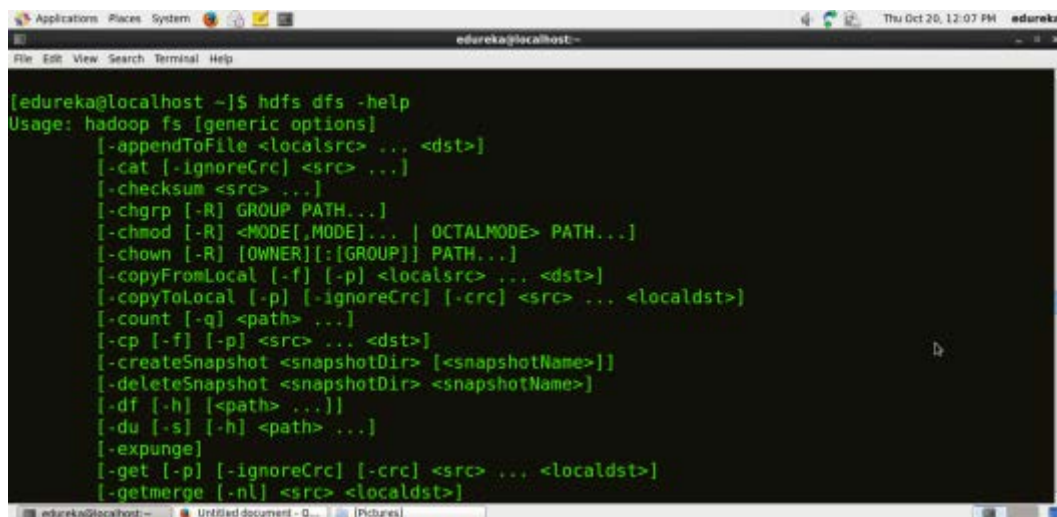
```
edureka@localhost:~$ hdfs dfs -usage mkdir
Usage: hadoop fs [generic options] -mkdir [-p] <path> ...
edureka@localhost:~$ hdfs dfs -usage put
Usage: hadoop fs [generic options] -put [-f] [-p] <localsrc> ... <dst>
edureka@localhost:~$
edureka@localhost:~$
edureka@localhost:~$ hdfs dfs -usage cat
Usage: hadoop fs [generic options] -cat [-ignoreCrc] <src> ...
edureka@localhost:~$
```

**Note:** By using usage command you can get information about any command.

## help

HDFS Command that displays help for given command or all commands if none is specified.

**Command:** `hdfs dfs -help`



```
edureka@localhost:~$ hdfs dfs -help
Usage: hadoop fs [generic options]
[-appendToFile <localsrc> ... <dst>]
[-cat [-ignoreCrc] <src> ...]
[-checksum <src> ...]
[-chgrp [-R] GROUP PATH...]
[-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
[-chown [-R] [OWNER][:[GROUP]] PATH...]
[-copyFromLocal [-f] [-p] <localsrc> ... <dst>]
[-copyToLocal [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
[-count [-q] <path> ...]
[-cp [-f] [-p] <src> ... <dst>]
[-createSnapshot <snapshotDir> [<snapshotName>]]
[-deleteSnapshot <snapshotDir> <snapshotName>]
[-df [-h] [<path> ...]]
[-du [-s] [-h] <path> ...]
[-expunge]
[-get [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
[-getmerge [-nl] <src> <localdst>]
```