HDFS Commands

This document will help you understand the basic Hadoop commands, using which you can perform different operations on hdfs.

Note: Please do not copy paste the commands, instead type them manually on the terminal.

Command to find the Version of Hadoop:

Command: hadoop version

```
[edureka@localhost ~]$ hadoop version
Hadoop 2.2.0
Subversion https://svn.apache.org/repos/asf/hadoop/common -r 1529768
Compiled by hortonmu on 2013-10-07T06:28Z
Compiled with protoc 2.5.0
From source with checksum 79e53ce7994d1628b240f09af91e1af4
This command was run using /usr/lib/hadoop-2.2.0/share/hadoop/common/hadoop = -common-2.2.0.jar
```

LS command:

Displays List of Files and Directories in HDFS file Path

Command: hadoop dfs -ls /

```
2
                        edureka@localhost:~
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[edureka@localhost ~]$ hdfs dfs -ls /
14/10/31 13:49:24 WARN util.NativecodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
Found 3 items
drwxrwxrwx - root
                      supergroup
                                         0 2014-10-16 18:54 /tmp
            - edureka supergroup
drwxrwxrwx
                                        0 2014-10-16 18:51 /user
drwxr-xr-x - edureka supergroup
                                        0 2014-09-24 19:02 /usr
[edureka@localhost ~]$
```

MKDIR command:

It creates the directory in HDFS

Syntax: hdfs dfs -mkdir /directory name

E.g: hdfs dfs -mkdir /new_edureka

```
edureka@localhost:~
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[edureka@localhost ~]$ hdfs dfs -mkdir /new edureka
14/10/31 13:57:50 WARN util.NativeLogeLoager: Unable to load native-hadoop
library for your platform using builtin-java classes where applicable
[edureka@localhost ~]¶ hdfs dfs -ls /
14/10/31 13:57:59 WARN util.NativeLogeLoager: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
Found 4 items
drwxr-xr-x

    edureka supergroup

                                           0 2014-10-31 13:57 /new edureka
drwxrwxrwx
           - root
                       supergroup
                                           0 2014-10-16 18:54 /tmp
drwxrwxrwx - edureka supergroup
                                           0 2014-10-16 18:51 /user
drwxr-xr-x - edureka supergroup
                                           0 2014-09-24 19:02 /usr
```

DU command:

Displays the summary of file lengths.

Syntax: hdfs dfs -du -s /path/to/file_in_hdfs

Command: hdfs dfs -du -s /new edureka/test

Note: Here test is a file that exists in HDFS in the directory new_edureka

```
[edureka@localhost ~]$|hdfs dfs -du -s /new edureka/test|
14/10/31 14:08:37 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using
builtin-java classes where applicable
48 /new_edureka/test
```

TOUCHZ command:

Create a file in HDFS with file size 0 bytes

Syntax: hdfs dfs -touchz /directory/filename

E.g. hdfs dfs -touchz /newedureka/sample.

Note: Here we are trying to create a file named "sample" in the directory 'new_edureka' of hdfs with file size 0 bytes.

Use the du command to check the file size

Command: hdfs dfs –du –s /new edureka/sample

```
edureka@localhost:~

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[edureka@localhost ~]$ hdfs dfs -touchz /new_edureka/sample

14/10/31 14:06:57 WARN util.NativeCodeLoader: Unable to toad native-hadoop library for your platform... using builtin-java classes where applicable

[edureka@localhost ~]$ hdfs dfs -du -s /new edureka/sample

14/10/31 14:07:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

0 /new edureka/sample
```

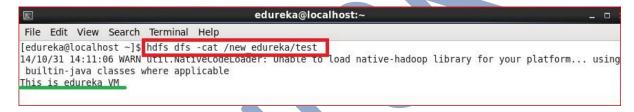
CAT command:

Copies source paths to stdout.

Syntax: hdfs dfs -cat /path/to/file in hdfs

Command: hdfs dfs -cat /new edureka/test

Note: Here test is a file that exists in HDFS in the directory new edureka



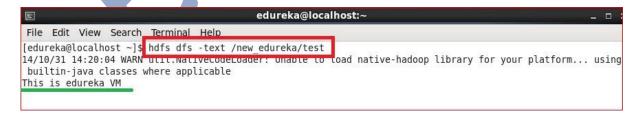
TEXT command:

Takes a source file and outputs the file in text format. (Same as Cat command)

Syntax: hdfs dfs -text /path/to/file_in_hdfs

Command: hdfs dfs -text /new_edureka/test

Note: Here test is a file that exists in HDFS in the directory new_edureka



copyFromLocal command :

Copy the file from Local file system to HDFS.

Syntax: hdfs fs -copyFromLocal <localsrc> URI

E.g: hdfs dfs -copyFromLocal /home/edureka/Desktop/test /new edureka

Note: Here test is the file present in the local directory - /home/edureka/Desktop

copyToLocal command :

Copy the file from HDFS to Local File System.

Syntax: hdfs fs -copyToLocal URI <localdst>

Command: hdfs dfs -copyToLocal /new edureka/test /home/edureka

Note: Here test is a file present in new_edureka directory of HDFS

```
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[edureka@localhost ~]$ hdfs dfs -copyToLocal /new edureka/test /home/edureka
14/10/31 14:02:44 WARN util.NativeCodeLoader: Unable to load native-nadoop library for your platform... using builtin-java classes where applicable
[edureka@localhost ~]$ ls /home/edureka/te*
/home/edureka/test
[edureka@localhost ~]$
```

PUT command:

Copy single source, or multiple srcs from local file system to the destination file system.

Syntax: hdfs fs -put <localsrc> ... <dst>

Command: hdfs dfs -put /home/edureka/Desktop/test /user

```
edureka@localhost:~
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[edureka@localhost ~]$ hdfs dfs -put /home/edureka/Desktop/test /user
14/10/31 14:30:59 WARN util.NativecodeLoader: Unable to load native-nadoop library for your platform... using
builtin-java classes where applicable
[edureka@localhost ~]$ hdfs dfs -ls /user
14/10/31 14:31:25 WARN util.NativecodeLoader: Unable to load native-hadoop library for your platform... using
builtin-java classes where applicable
Found 5 items
drwxrwxrwx

    edureka supergroup

                                           0 2014-09-30 19:37 /user/edureka
                                           0 2014-09-24 18:27 /user/flume
drwxrwxrwx

    edureka supergroup

drwxr-xr-x
            - edureka supergroup
                                           0 2014-10-16 18:51 /user/hive
-rw-r--r--
             1 edureka supergroup
                                           0 2014-10-31 14:06 /user/sample
-rw-r--r--
            1 edureka supergroup
                                          21 2014-10-31 14:30 /user/test
```

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

GET command:

Copy files from hdfs to the local file system.

Syntax: hadoop fs -get [-ignorecrc] [-crc] <src> <localdst>

E.g: hdfs dfs -get /user/test /home/edureka

```
edureka@localhost:~

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[edureka@localhost ~]  hdfs dfs -get /user/test /home/edureka

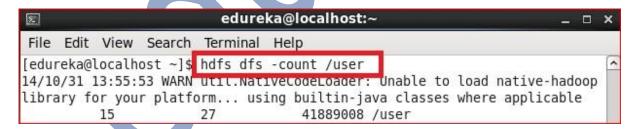
14/10/31 14:35:06 WARN util.wativecodecoder: unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[edureka@localhost ~]  ls -l test
-rw-r--r--. 1 edureka edureka 21 Oct 31 14:35 test
```

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

COUNT command:

Count the number of directories, files and bytes under the paths that match the specified file pattern.

Command: hdfs dfs -count /user



RM command:

Remove the file from HDFS.

Syntax: hdfs dfs -rm /path/to/file in hdfs

Command: hdfs dfs -rm /new_edureka/test

```
[edureka@localhost ~]$ hdfs dfs -rm /new edureka/test
14/10/31 14:22:31 WARN util.NativeLodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
14/10/31 14:22:31 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Em ptier interval = 0 minutes.
Deleted /new_edureka/test
[edureka@localhost ~]s hdfs dfs -ls /new edureka/
14/10/31 14:23:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
```

RMR command:

Remove the directory to HDFS

Syntax: hdfs dfs -rmr /path/to/directory_in_hdfs

Command: hdfs dfs -rmr /new_edureka/

[edureka@localhost ~]\$ hdfs dfs -rmr /new_edureka/
rmr: DEPRECATED: Please use 'rm -r' Instead.
14/10/31 14:25:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
14/10/31 14:25:17 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Emptier interval = 0 minutes.
Deleted /new edureka