- wget https://archive.apache.org/dist/hadoop/core/hadoop-2.7.3/hadoop-2.7.3.tar.gz
- o tar -xvf hadoop-2.7.3.tar.gz

HDFS Commands

· fsck

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

Command: hdfs fsck /

```
## Applications Places System | Graph | Graph
```

• <u>ls</u>

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

Command: hdfs dfs -ls /

```
💸 Applications Places System 🍪 🕝 🗾 🖪
                                                                                                     🦸 🧲 👔 Thu Oct 20, 10:04 AM edureka
[edureka@localhost -]$ hdfs dfs -ls /
16/10/20 10:03:56 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
form... using builtin-java classes where applicable Found 7 items
drwxr-xr-x - edureka supergroup
drwxr-xr-x - edureka supergroup
                                                           0 2016-10-11 09:17 /flume
                                                          0 2016-10-13 09:52 /input files
0 2016-10-07 09:07 /pig
                 - edureka supergroup
                - edureka supergroup
                                                           0 2016-10-08 11:09 /sqoopOut1
0 2016-10-07 09:10 /tmp
                  - edureka supergroup
                - root supergroup
              - edureka supergroup
- edureka supergroup
                                                           0 2014-09-29 19:04 /user
0 2014-09-24 19:02 /usr
rwxr-xr-x
 edureka@localhost -]$ 📗
```

mkdir

HDFS Command to create the directory in HDFS.

Usage: hdfs dfs -mkdir /directory_name

Command: hdfs dfs -mkdir /new_edureka

```
💸 Applications Places System 🐞 🕝 🗾 🔳
                                                                                       di 🐫 🙀 Thu Oct 20, 10:05 AM edu
6/10/20 10:05:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
orm... using builtin-java classes where applicable
edureka@localhost ~]$ hdfs dfs -ls /
.6/10/20 10:05:24 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
orm... using builtin-java classes where applicable
ound 8 items
              - edureka supergroup
                                                  0 2016-10-11 09:17 /flume
                                                 0 2016-10-13 09:52 /input files
0 2016-10-20 10:05 /new edureka
               - edureka supergroup
                                                   0 2016-10-08 11:09 /sqoopOut1
0 2016-10-07 09:10 /tmp
                edureka supergroup
                          supergroup
                edureka supergroup
                                                   0 2014-09-29 19:04 /user
                                                   0 2014-09-24 19:02 /usr
rwxr-xr-x
                edureka supergroup
 edureka@localhost -]$
```

Note: Here we are trying to create a directory named "new_edureka" in HDFS.

You can get a better understanding with the Azure Data Engineering certification.

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

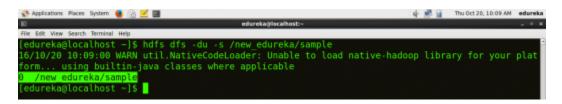
Note: Here we are trying to create a file named "sample" in the directory "new_edureka" of hdfs with file size 0 bytes.

· du

HDFS Command to check the file size.

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

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

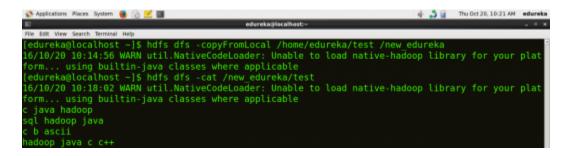


cat

HDFS Command that reads a file on HDFS and prints the content of that file to the standard output.

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

Command: hdfs dfs -cat /new_edureka/test



copyFromLocal

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

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

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

Note: Here the 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

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

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

You can even check out the details of Big Data with the Data Engineering Certification in Canada.

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

```
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                                                                                                        🦸 📞 Thu Oct 20, 11:44 AM edureka
 cuarexaglocalmost -j$ ndTs dTs -get /user/test /home/edureka
.6/10/20 11:43:40 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
orm... using builtin-java classes where applicable
 edureka@localhost ~]$ cd /home/edureka
edureka@localhost ~]$ ls
                                         Newcsv.java-
NYSE daily_prices_Q.csv-
 ustomer.pig- Downloads
                                                                              sagar_hadoop_practials workspace
                   eclipse
                                                                              Templates
                                                                                                                 workspace1
                    metastore_db Pictures
Desktop
                    Music
                                         Public
Documents
 edureka@localhost ~]$
```

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

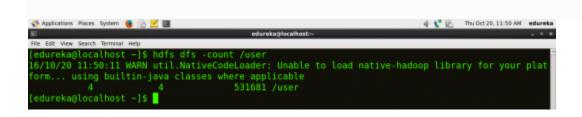
count

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

Big Data Training



• <u>rm</u>

HDFS Command to remove the file from HDFS.

Usage: hdfs dfs -rm <path>

Command: hdfs dfs -rm /new_edureka/test

• <u>rm -r</u>

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

Usage: hdfs dfs -rm -r <path>

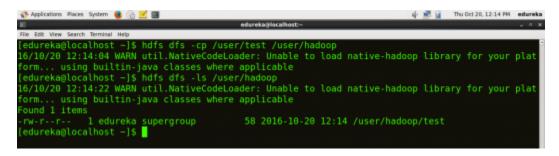
Command: hdfs dfs -rm -r /new_edureka

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



• <u>mv</u>

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

expunge

HDFS Command that makes the trash empty.

Command: hdfs dfs -expunge

rmdir

HDFS Command to remove the directory.

Usage: hdfs dfs -rmdir <path>

Command: hdfs dfs -rmdir /user/hadoop

```
💸 Applications Places System 🐞 治 🗾 🔙
                                                                                                                                🛊 🗷 🚵 Thu Oct 20, 12:03 PM 🛮 edureka
Learenageocathost -| p mars ofs -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
-ound 4 items
                     - edureka supergroup
irwxrwxrwx
                     - edureka supergroup
                                                                        0 2014-09-24 18:27 /user/flume
0 2016-10-20 12:02 /user/hadoop
58 2016-10-20 11:31 /user/test

    edureka supergroup

- edureka supergroup 58 2016-10-20 11:31 /user/test
[edureka@localhost ~]$ hdfs dfs -rmdir /user/hadoop
[6/10/20 12:03:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
orm... 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
                                                                         0 2016-10-12 09:46 /user/edureka
0 2014-09-24 18:27 /user/flume
58 2016-10-20 11:31 /user/test
rwxrvxrwx
                         edureka supergroup
rwxrvxrvx
                     1 edureka <u>s</u>upergroup
 edureka@localhost ~]$
```

usage

HDFS Command that returns the help for an individual command.

Usage: hdfs dfs -usage <command>

Command: hdfs dfs -usage mkdir

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