



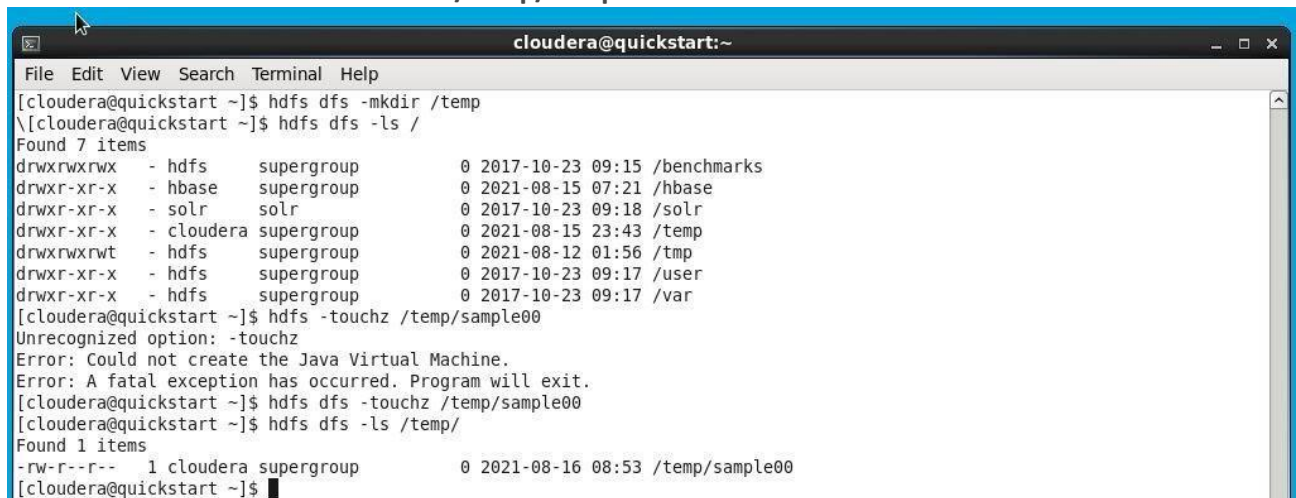
3. Create HDFS Directory with the name 'temp'

Command: `hdfs dfs -mkdir /temp`

```
Found 12 items
drwxrwxrwx - hdfs      supergroup          0 2017-10-23 09:15 /benchmarks
drwxr-xr-x - hbase     supergroup          0 2021-08-09 01:48 /hbase
drwxr-xr-x - cloudera  supergroup          0 2020-12-27 03:17 /infold01
drwxr-xr-x - cloudera  supergroup          0 2020-12-27 03:23 /out1
drwxr-xr-x - cloudera  supergroup          0 2020-12-27 03:14 /outfold01
drwxr-xr-x - cloudera  supergroup          0 2020-12-27 04:43 /pig
-rw-r--r-- 1 cloudera  supergroup        102 2020-12-27 15:05 /pigfile.txt
drwxr-xr-x - solr      solr              0 2017-10-23 09:18 /solr
drwxr-xr-x - cloudera  supergroup          0 2021-08-09 02:27 /temp
drwxrwxrwt - hdfs      supergroup          0 2021-01-20 21:49 /tmp
drwxr-xr-x - hdfs      supergroup          0 2017-10-23 09:17 /user
drwxr-xr-x - hdfs      supergroup          0 2017-10-23 09:17 /var
[cloudera@quickstart ~]$
```

4. Create file in HDFS with 'touchz' and show the size of the created file. Attach the output screen shot.

Command: `hdfs dfs -touchz /temp/sample00`



```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -mkdir /temp
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 7 items
drwxrwxrwx - hdfs      supergroup          0 2017-10-23 09:15 /benchmarks
drwxr-xr-x - hbase     supergroup          0 2021-08-15 07:21 /hbase
drwxr-xr-x - solr      solr              0 2017-10-23 09:18 /solr
drwxr-xr-x - cloudera  supergroup          0 2021-08-15 23:43 /temp
drwxrwxrwt - hdfs      supergroup          0 2021-08-12 01:56 /tmp
drwxr-xr-x - hdfs      supergroup          0 2017-10-23 09:17 /user
drwxr-xr-x - hdfs      supergroup          0 2017-10-23 09:17 /var
[cloudera@quickstart ~]$ hdfs -touchz /temp/sample00
Unrecognized option: -touchz
Error: Could not create the Java Virtual Machine.
Error: A fatal exception has occurred. Program will exit.
[cloudera@quickstart ~]$ hdfs dfs -touchz /temp/sample00
[cloudera@quickstart ~]$ hdfs dfs -ls /temp/
Found 1 items
-rw-r--r-- 1 cloudera supergroup          0 2021-08-16 08:53 /temp/sample00
[cloudera@quickstart ~]$
```

5. Find the HDFS command for show file size in HDFS folder

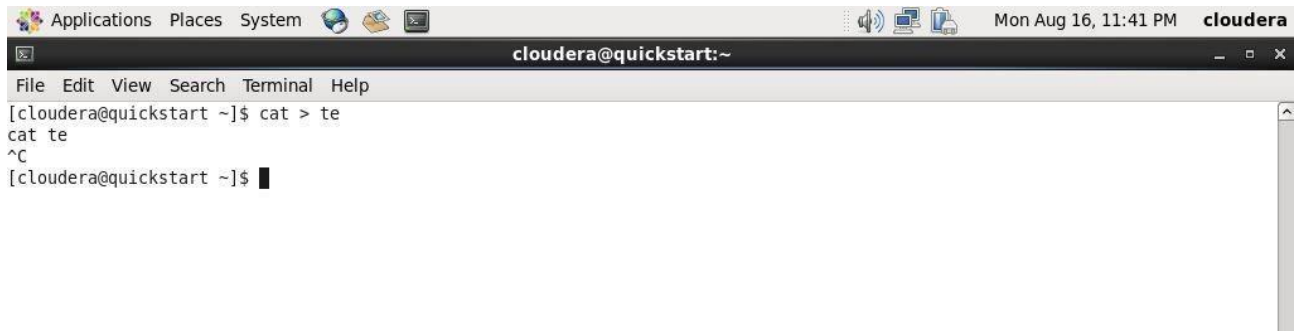
Command: `hdfs dfs -df /temp`

```
0          0          /benchmarks
9207       268444497   /hbase
72         72         /infold01
41         41         /out1
0          0          /outfold01
0          0          /pig
102        102        /pigfile.txt
0          0          /solr
0          0          /temp
158974866  158974866   /tmp
861283067  861283067   /user
403090     403090     /var
```

6. Create file in local system using Linux command and display the content in that created file.

Command: `cat > te`

Command: `cat te`



```
Applications Places System cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ cat > te
cat te
^C
[cloudera@quickstart ~]$
```

7. Find HDFS command for copy locally created file into HDFS file system

Command: `hdfs dfs -copyFromLocal Te /temp/`

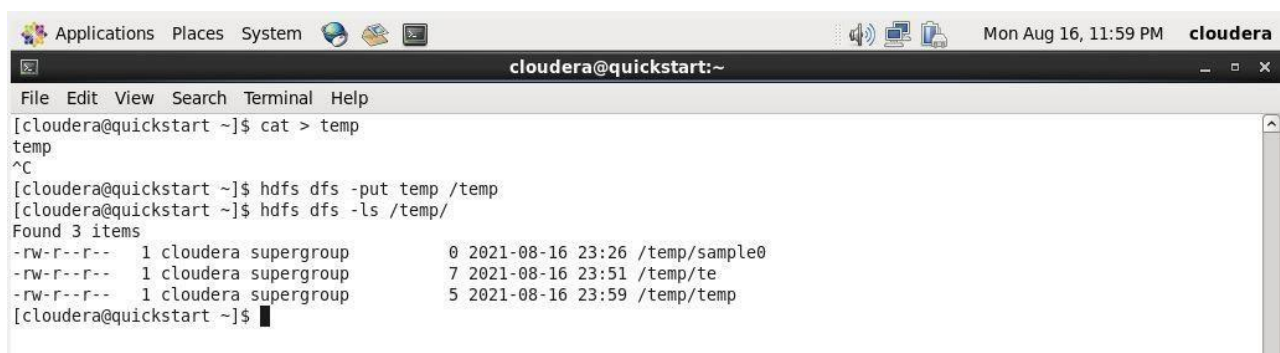


```
[cloudera@quickstart ~]$ ls
cloudera-manager eclipse lib pig_1609071035413.log pig_1609073285453.log pig_1611207545890.log Templates
cm_api.py enterprise-deployment.json Music pig_1609071868480.log pig_1609073645121.log pigfile.txt Videos
Desktop expig parcels pig_1609072460700.log pig_1609110421108.log Public WordCount.jar
Documents express-deployment.json pfile.txt pig_1609072756374.log pig_1609111318432.log te workspace
Downloads kerberos Pictures pig_1609073082983.log pig_1611186283740.log temp

21/08/09 03:00:03 WARN hdfs.DFSClient: Caught exception
java.lang.InterruptedException
    at java.lang.Object.wait(Native Method)
    at java.lang.Thread.join(Thread.java:1281)
    at java.lang.Thread.join(Thread.java:1355)
    at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.closeResponder(DFSOutputStream.java:967)
    at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.endBlock(DFSOutputStream.java:705)
    at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.run(DFSOutputStream.java:894)
[cloudera@quickstart ~]$ hdfs dfs -ls /temp/
Found 2 items
-rw-r--r-- 1 cloudera supergroup 0 2021-08-09 02:31 /temp/sample00
-rw-r--r-- 1 cloudera supergroup 24 2021-08-09 03:00 /temp/te
[cloudera@quickstart ~]$
```

8. Copy locally created file into HDFS file system using 'put' command

Command: `hdfs dfs -put temp /temp/`



```
Applications Places System cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ cat > temp
temp
^C
[cloudera@quickstart ~]$ hdfs dfs -put temp /temp
[cloudera@quickstart ~]$ hdfs dfs -ls /temp/
Found 3 items
-rw-r--r-- 1 cloudera supergroup 0 2021-08-16 23:26 /temp/sample00
-rw-r--r-- 1 cloudera supergroup 7 2021-08-16 23:51 /temp/te
-rw-r--r-- 1 cloudera supergroup 5 2021-08-16 23:59 /temp/temp
[cloudera@quickstart ~]$
```

9. Remove Local file using Linux command

Command: rm temp

```
cloudera-manager  eclipse  Lib  pig_1609071035413.log  pig_1609073285453.log  pig_1611207545890.log  Videos
cm_api.py        enterprise-deployment.json  Music  pig_1609071868480.log  pig_1609073645121.log  pigfile.txt  WordCount.jar
Desktop          expig  parcels  pig_1609072460700.log  pig_1609110421108.log  Public  workspace
Documents        express-deployment.json  pfile.txt  pig_1609072756374.log  pig_1609111318432.log  temp
Downloads        kerberos  Pictures  pig_1609073082983.log  pig_1611186283740.log  Templates

cloudera-manager  eclipse  Lib  pig_1609071035413.log  pig_1609073285453.log  pig_1611207545890.log  WordCount.jar
cm_api.py        enterprise-deployment.json  Music  pig_1609071868480.log  pig_1609073645121.log  pigfile.txt  workspace
Desktop          expig  parcels  pig_1609072460700.log  pig_1609110421108.log  Public
Documents        express-deployment.json  pfile.txt  pig_1609072756374.log  pig_1609111318432.log  Templates
Downloads        kerberos  Pictures  pig_1609073082983.log  pig_1611186283740.log  Videos
[cloudera@quickstart ~]$
```

10. Copy HDFS file to Local File System using copyToLocal command

Command: hdfs dfs -copyToLocal /temp/test /home/cloudera/

```
[cloudera@quickstart ~]$ ls
cloudera-manager  Documents  enterprise-deployment.json  Lib  Pictures  Templates  test1  workspace
cm_api.py        Downloads  express-deployment.json  Music  Public  temp  test2
Desktop          eclipse  kerberos  parcels  te  test  Videos
[cloudera@quickstart ~]$ rm test2
rm: remove regular file 'test2'? y
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /temp1/test2 /home/cloudera/
[cloudera@quickstart ~]$ ls
cloudera-manager  Documents  enterprise-deployment.json  Lib  Pictures  Templates  test1  workspace
cm_api.py        Downloads  express-deployment.json  Music  Public  temp  test2
Desktop          eclipse  kerberos  parcels  te  test  Videos
[cloudera@quickstart ~]$
```

11. Find another way to copy HDFS files into Local File System.

Command: hdfs dfs -get /temp/sample0 /home/cloudera

```
cloudera-manager  eclipse  Lib  pig_1609071035413.log  pig_1609073285453.log  pig_1611207545890.log  WordCount.jar
cm_api.py        enterprise-deployment.json  Music  pig_1609071868480.log  pig_1609073645121.log  pigfile.txt  workspace
Desktop          expig  parcels  pig_1609072460700.log  pig_1609110421108.log  Public
Documents        express-deployment.json  pfile.txt  pig_1609072756374.log  pig_1609111318432.log  Templates
Downloads        kerberos  Pictures  pig_1609073082983.log  pig_1611186283740.log  Videos

cloudera-manager  eclipse  Lib  pig_1609071035413.log  pig_1609073285453.log  pig_1611207545890.log  Templates
cm_api.py        enterprise-deployment.json  Music  pig_1609071868480.log  pig_1609073645121.log  pigfile.txt  Videos
Desktop          expig  parcels  pig_1609072460700.log  pig_1609110421108.log  Public  WordCount.jar
Documents        express-deployment.json  pfile.txt  pig_1609072756374.log  pig_1609111318432.log  te  workspace
Downloads        kerberos  Pictures  pig_1609073082983.log  pig_1611186283740.log  temp
[cloudera@quickstart ~]$
```

12. Count number of files in particular HDFS directory using 'count' command

Command: hdfs dfs -count /temp

```
Applications  Places  System  Tue Aug 17, 12:27 AM  cloudera
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hdfs dfs -count /temp
      12 /temp
[cloudera@quickstart ~]$
```


13. Remove the entire directory and all if its content from HDFS

Command: `hadoop fs -rm -r /book`

```
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 ~]$
```

14. Copy HDFS file from one folder to another folder using 'cp' command

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

```
[cloudera@quickstart ~]$ hdfs dfs -mkdir /tweet
[cloudera@quickstart ~]$ hdfs dfs -cp /tweet /temp/
[cloudera@quickstart ~]$ hdfs dfs -ls /temp
Found 3 items
-rw-r--r-- 1 cloudera supergroup          7 2021-08-16 23:51 /temp/te
-rw-r--r-- 1 cloudera supergroup          5 2021-08-16 23:59 /temp/temp
drwxr-xr-x - cloudera supergroup          0 2021-08-19 06:08 /temp/tweet
[cloudera@quickstart ~]$
```

15. Write the HDFS command to move files form source to destination.

Command: `hdfs dfs -mkdir /tw`

`hdfs dfs -mv /tw /temp`

`hdfs dfs -ls /temp`

```
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 ~]$
```

16. Catch HDFS command for empty the trash

Command: `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 ~]$
```

17. Remove HDFS directory using 'rmdir' command

Command: `hdfs dfs -rmdir /temp`

```
[cloudera@quickstart ~]$ hdfs dfs -mkdir /temp2
[cloudera@quickstart ~]$ hdfs dfs -rmdir /temp2
[cloudera@quickstart ~]$
```

18. How to returns the help for an individual command in HDFS

Command: `hdfs dfs -help`

Usage: `hadoop fs [generic options] -mkdir [-p] <path> ...`

Usage: `hadoop fs [generic options] -put [-f] [-p] [-l] <localsrc> ... <dst>`
[cloudera@quickstart ~]\$

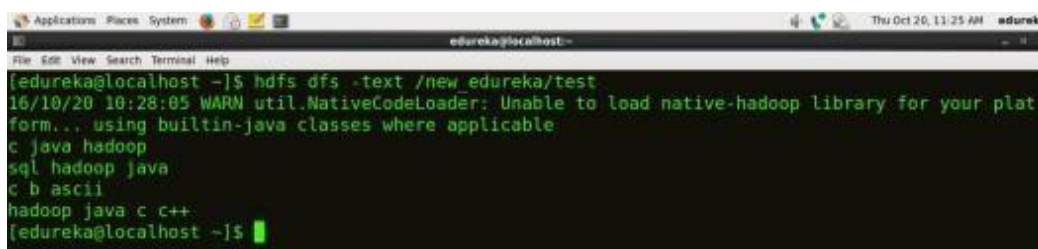
19. Find HDFS Command that displays help for given command or all commands if none is specified

Command: `hdfs dfs -usage`

```
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] [-l] <localsrc> ... <dst>]
[-copyToLocal [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
[-count [-q] [-h] [-v] [-x] <path> ...]
[-cp [-f] [-p | -p[topax]] <src> ... <dst>]
[-createSnapshot <snapshotDir> [<snapshotName>]]
[-deleteSnapshot <snapshotDir> <snapshotName>]
[-df [-h] [<path> ...]]
[-du [-s] [-h] [-x] <path> ...]
[-expunge]
[-find <path> ... <expression> ...]
[-get [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
[-getfacl [-R] <path>]
[-getfattr [-R] {-n name | -d} [-e en] <path>]
[-getmerge [-nl] <src> <localdst>]
[-help [cmd ...]]
[-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [<path> ...]]
[-mkdir [-p] <path> ...]
[-moveFromLocal <localsrc> ... <dst>]
[-moveToLocal <src> <localdst>]
[-mv <src> ... <dst>]
[-put [-f] [-p] [-l] <localsrc> ... <dst>]
[-renameSnapshot <snapshotDir> <oldName> <newName>]
[-rm [-f] [-r|-R] [-skipTrash] <src> ...]
[-rmdir [--ignore-fail-on-non-empty] <dir> ...]
```

20. Using HDFS command takes a source file and text formatted output file.

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



```
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 plat
form... using builtin-java classes where applicable
c java hadoop
sql hadoop java
c b ascii
hadoop java c c++
edureka@localhost ~]$
```