```
[root@sandbox-hdp ~]# hdfs dfs -du -s /test_data/hello.dat
0 /test_data/hello.dat
```

To determine the size of a file; shows size in kb

```
[root@sandbox-hdp ~]# hdfs dfs -cat /test_data/hello.dat
how are you
Hope you are doing well
hope you are fine and doing well
```

· Shows the content of the file.

- · Cat>> is used to create files in the local system
- Ls and file name can be used to find out if file present in system
- -copyFromLocal used to move files from local to HDFS (similar to get)

```
[root@sandbox-hdp ~]# cat>>how2.dat
how are u doing theese days?
[root@sandbox-hdp ~]# ls
anaconda-ks.cfg hello1.dat hello2.dat hello3.dat how2.dat how.dat
[root@sandbox-hdp ~] # hdfs dfs -put how2.dat /test_data/
[root@sandbox-hdp ~] # hdfs dfs -ls /test-data
ls: `/test-data': No such file or directory
[root@sandbox-hdp ~] # hdfs dfs -ls /test data
Found 7 items
                                         0 2020-05-23 05:44 /test data/hello
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                                        69 2020-05-23 06:20 /test_data/hello.dat
21 2020-05-23 06:35 /test_data/hello1.dat
                                       18 2020-05-23 06:38 /test_data/hello2.dat
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                                       26 2020-05-23 07:04 /test_data/hello3.dat
                                       13 2020-05-23 08:39 /test_data/how.dat
29 2020-05-23 08:47 /test_data/how2.dat
```

-put is similar to -copy from local.

```
[root@sandbox-hdp ~] # hdfs dfs -ls /test data
Found 8 items
                                        0 2020-05-23 05:44 /test_data/hello
-rw-r--r-- 1 root hdfs
             1 root hdfs
1 root hdfs
1 root hdfs
1 root hdfs
1 root hdfs
1 root hdfs
-rw-r--r--
                                       69 2020-05-23 06:20 /test_data/hello.dat
                                       21 2020-05-23 06:35 /test_data/hello1.dat
18 2020-05-23 06:38 /test_data/hello2.dat
-rw-r--r--
-rw-r--r--
                                      26 2020-05-23 07:04 /test_data/hello3.dat
-rw-r--r--
                                       13 2020-05-23 08:39 /test data/how.dat
-rw-r--r--
              1 root hdfs
                                      29 2020-05-23 08:47 /test data/how2.dat
-rw-r--r--
-rw-r--r-- 1 root hdfs
                                       0 2020-05-23 08:54 /test data/test.dat
[root@sandbox-hdp ~]# hdfs dfs -ls /test data1
[root@sandbox-hdp ~] # hdfs dfs -cp /test data/hello.dat /test data1/
[root@sandbox-hdp ~] # hdfs dfs -ls /test_data1
Found 1 items
-rw-r--r- 1 root hdfs
                                       69 2020-05-23 09:15 /test_data1/hello.dat
  • -cp used to copy files from one HDFS directory to another.
[root@sandbox-hdp ~] # hdfs dfs -ls /test data
Found 7 items
-rw-r--r-- 1 root hdfs
                                       0 2020-05-23 05:44 /test_data/hello
              1 root hdfs
                                     69 2020-05-23 06:20 /test_data/hello.dat
-rw-r--r--
                                     21 2020-05-23 06:35 /test_data/hello1.dat
26 2020-05-23 07:04 /test_data/hello3.dat
13 2020-05-23 08:39 /test_data/how.dat
29 2020-05-23 08:47 /test_data/how2.dat
             1 root hdfs
-rw-r--r--
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                                      0 2020-05-23 08:54 /test_data/test.dat
[root@sandbox-hdp ~] # hdfs dfs -rm /test data/hello.dat
20/05/23 09:41:00 INFO fs.TrashPolicyDefault: Moved: 'hdfs://sandbox-hdp.hort
.com:8020/user/root/.Trash/Current/test data/hello.dat
[root@sandbox-hdp ~] # hdfs dfs -ls /test data
Found 6 items
                                       0 2020-05-23 05:44 /test data/hello
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                                     21 2020-05-23 06:35 /test_data/hello1.dat
                                     26 2020-05-23 07:04 /test_data/hello3.dat
-rw-r--r-- 1 root hdfs
                                     13 2020-05-23 08:39 /test_data/how.dat
29 2020-05-23 08:47 /test_data/how2.dat
              1 root hdfs
-rw-r--r--
-rw-r--r--
               1 root hdfs
-rw-r--r--
             1 root hd<u>f</u>s
                                      0 2020-05-23 08:54 /test data/test.dat

    -rm used to delete files
```

```
[root@sandbox-hdp ~]# hdfs dfs -rmdir /test data1
rmdir: `/test datal': Directory is not empty
[root@sandbox-hdp ~]# hdfs dfs -mkdir /hellol
[root@sandbox-hdp ~]# hdfs dfs -ls /
Found 19 items
                 yarn
                                             0 2018-06-18 15:18 /app-logs
0 2018-06-18 16:13 /apps
drwxrwxrwx
                          hadoop
               - hdfs
drwxr-xr-x
                          hdfs
                                             0 2018-06-18 14:52 /ats
0 2020-05-23 03:10 /bigdatatest1
drwxr-xr-x
               - yarn
                          hadoop
drwxr-xr-x
               - root
                          hdfs
                                             0 2020-05-23 02:31
drwxr-xr-x
               - root
                          hdfs
                                                                   /hadoop2
-rwxr-xr-x
               1 root
                          hdfs
                                             0 2020-05-23 02:10 /hadoop3
-rwxr-xr-x
              1 root
                          hdfs
                                             0 2020-05-23 02:12
                                                                    /hadoop4
                                             0 2018-06-18 14:52 /hdp
              - hdfs
drwxr-xr-x
                          hdfs
                                             0 2020-05-23 05:35 /hello
0 2020-05-23 09:49 /hellol
drwxr-xr-x
                          hdfs
              - root hdfs
- livy hdfs
- mapred hdfs
drwxr-xr-x
drwx----
                                             0 2018-06-18 15:11
                                                                   /livy2-recovery
drwxr-xr-x
                                             0 2018-06-18 14:52 /mapred
                                             0 2018-06-18 14:52
0 2018-06-18 15:59

    mapred hadoop

drwxrwxrwx
                                                                   /mr-history
              - hdfs
                          hdfs
                                                                   /ranger
drwxr-xr-x
               - spark
                          hadoop
                                             0 2020-05-23 00:27 /spark2-history
drwxrwxrwx
drwxr-xr-x
               - root
                          hdfs
                                             0 2020-05-23 09:41
                                                                   /test_data
              - root
drwxr-xr-x
                          hdfs
                                             0 2020-05-23 09:24 /test_data1
                                            0 2018-06-18 16:06 /tmp
0 2018-06-18 16:08 /user
              - hdfs
drwxrwxrwx
                          hdfs
               - hdfs
drwxr-xr-x
                          hdfs
[root@sandbox-hdp ~]# hdfs dfs -rmdir /hello
[root@sandbox-hdp ~]# hdfs dfs -rmdir /hellol
[root@sandbox-hdp ~]# hdfs dfs -ls /
Found 17 items drwxrwxrwx -
                                             0 2018-06-18 15:18 /app-logs
                          hadoop
               - yarn
drwxr-xr-x
               - hdfs
                          hdfs
                                             0 2018-06-18 16:13 /apps
               - yarn
drwxr-xr-x
                          hadoop
                                             0 2018-06-18 14:52
                                                                   /ats
              - root
drwxr-xr-x
                          hdfs
                                             0 2020-05-23 03:10 /bigdatatest1
                                             0 2020-05-23 02:31
               - root
drwxr-xr-x
                          hdfs
                                                                    /hadoop2
-rwxr-xr-x
               1 root
                          hdfs
                                             0 2020-05-23 02:10
                                                                   /hadoop3
 rwxr-xr-x
               1 root
                          hdfs
                                             0 2020-05-23 02:12
                                                                    /hadoop4
drwxr-xr-x
               - hdfs
                          hdfs
                                             0 2018-06-18 14:52
                                                                   /hdp
               - livy
                                             0 2018-06-18 15:11
0 2018-06-18 14:52
0 2018-06-18 14:52
drwx----
                          hdfs
                                                                    /livy2-recovery
drwxr-xr-x

    mapred hdfs

                                                                   /mapred
               - mapred hadoop
drwxrwxrwx
                                                                   /mr-history
                                             0 2018-06-18 15:59
drwxr-xr-x
                 hdfs
                          hdfs
                                                                   /ranger
drwxrwxrwx
               - spark
                          hadoop
                                             0 2020-05-23 00:27
                                                                    /spark2-history
drwxr-xr-x
               - root
                          hdfs
                                             0 2020-05-23 09:41
                                                                   /test_data
                                             0 2020-05-23 09:24 /test_data1
               - root
drwxr-xr-x
                          hdfs
               - hdfs
                                             0 2018-06-18 16:06 /tmp
drwxrwxrwx
                          hdfs
drwxr-xr-x
               - hdfs
                          hdfs
                                             0 2018-06-18 16:08 /user

    -rmdir only works for empty directories
```

```
[root@sandbox-hdp ~] # hdfs dfs -appendToFile - /test data/hello.dat
how are you
[root@sandbox-hdp ~] # hdfs dfs -du -s /test data/hello.dat
12 /test data/hello.dat
[root@sandbox-hdp ~] # hdfs dfs -appendToFile - /test data/hello.dat
Hope you are doing well
[root@sandbox-hdp ~] # hdfs dfs -du -s /test data/hello.dat
36 /test data/hello.dat
 · After entering the required change to the file, press enter and then ctrl+d to go back to root
[root@sandbox-hdp ~] # hdfs dfs -touchz /test data/test.dat
h[root@sandbox-hdp ~] #hdfs dfs -ls /test data
Found 8 items
                                   0 2020-05-23 05:44 /test_data/hello
-rw-r--r-- 1 root hdfs
            1 root hdfs
                                  69 2020-05-23 06:20 /test data/hello.dat
-rw-r--r--
            1 root hdfs
                                  21 2020-05-23 06:35 /test_data/hello1.dat
-rw-r--r--
            1 root hdfs
                                  18 2020-05-23 06:38 /test_data/hello2.dat
-rw-r--r--
             1 root hdfs
                                  26 2020-05-23 07:04 /test_data/hello3.dat
-rw-r--r--
-rw-r--r--
             1 root hdfs
                                  13 2020-05-23 08:39 /test_data/how.dat
             1 root hdfs
-rw-r--r--
                                  29 2020-05-23 08:47 /test_data/how2.dat
-rw-r--r--
             1 root hdfs
                                   0 2020-05-23 08:54 /test data/test.dat
 · -touchz is used to create files within a directory
```

```
[root@sandbox-hdp ~] # pwd
[root@sandbox-hdp ~] # ls
anaconda-ks.cfg hello1.dat hello2.dat hello3.dat how2.dat how.dat
[root@sandbox-hdp ~] # hdfs dfs -ls /test_data
Found 8 items
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                                    0 2020-05-23 05:44 /test_data/hello
                                   69 2020-05-23 06:20 /test_data/hello.dat
            1 root hdfs
1 root hdfs
-rw-r--r--
                                   21 2020-05-23 06:35 /test_data/hello1.dat
-rw-r--r--
                                   18 2020-05-23 06:38 /test_data/hello2.dat
-rw-r--r--
            1 root hdfs
                                   26 2020-05-23 07:04 /test_data/hello3.dat
            1 root hdfs
1 root hdfs
                                   13 2020-05-23 08:39 /test_data/how.dat
29 2020-05-23 08:47 /test_data/how2.dat
-rw-r--r--
-rw-r--r--
-rw-r--r-- 1 root hdfs
                                    0 2020-05-23 08:54 /test_data/test.dat
[root@sandbox-hdp ~] # hdfs dfs -copyToLocal /test_data/test.dat /root
[root@sandbox-hdp ~]# ls
anaconda-ks.cfg hellol.dat hello2.dat hello3.dat how2.dat how.dat test.dat
[root@sandbox-hdp ~]# hdfs dfs -get /test_data/hello.dat /root
[root@sandbox-hdp ~]# ls
anaconda-ks.cfg hello1.dat hello2.dat hello3.dat hello.dat how2.dat how.dat test.dat
  • Pwd gives the current path
  · -copyToLocal and -get copies files from HDFS to local storage
```

```
....
                                                                              4.1
 [root@sandbox-hdp ~] # hdfs dfs -ls /test data
 Found 8 items
 -rw-r--r-- 1 root hdfs
                                  0 2020-05-23 05:44 /test data/hello
 -rw-r--r-- 1 root hdfs
                                 69 2020-05-23 06:20 /test data/hello.dat
 -rw-r--r-- 1 root hdfs
                                 21 2020-05-23 06:35 /test data/hello1.dat
 -rw-r--r-- 1 root hdfs
                                 18 2020-05-23 06:38 /test data/hello2.dat
            1 root hdfs
 -rw-r--r--
                                 26 2020-05-23 07:04 /test data/hello3.dat
                                  13 2020-05-23 08:39 /test_data/how.dat
            1 root hdfs
 -rw-r--r--
                                  29 2020-05-23 08:47 /test_data/how2.dat
             1 root hdfs
 -rw-r--r--
            1 root hdfs
                                  0 2020-05-23 08:54 /test_data/test.dat
 -rw-r--r--
 [root@sandbox-hdp ~]# hdfs dfs -ls /test data1
 Found 2 items
 -rw-r--r--
             1 root hdfs
                                  69 2020-05-23 09:15 /test data1/hello.dat
                                  21 2020-05-23 09:17 /test_data1/hello1.dat
 -rw-r--r--
             1 root hdfs
[root@sandbox-hdp ~] # hdfs dfs -mv /test data/hello2.dat /test data1/
 [root@sandbox-hdp ~] # hdfs dfs -ls /test_data
 Found 7 items
                                   0 2020-05-23 05:44 /test_data/hello
 -rw-r--r-- 1 root hdfs
 -rw-r--r--
            1 root hdfs
                                  69 2020-05-23 06:20 /test data/hello.dat
 -rw-r--r--
            1 root hdfs
                                  21 2020-05-23 06:35 /test data/hello1.dat
 -rw-r--r--
             1 root hdfs
                                  26 2020-05-23 07:04 /test_data/hello3.dat
                                  13 2020-05-23 08:39 /test_data/how.dat
             1 root hdfs
 -rw-r--r--
 -rw-r--r--
              1 root hdfs
                                  29 2020-05-23 08:47 /test_data/how2.dat
 -rw-r--r--
             1 root hdfs
                                  0 2020-05-23 08:54 /test_data/test.dat
 [root@sandbox-hdp ~] # hdfs dfs -ls /test data1
 Found 3 items
 -rw-r--r-- 1 root hdfs
                                  69 2020-05-23 09:15 /test data1/hello.dat
                                  21 2020-05-23 09:17 /test data1/hello1.dat
 -rw-r--r--
              1 root hdfs
                                  18 2020-05-23 06:38 /test_data1/hello2.dat
 -rw-r--r--
              1 root hdfs

    -mv used to move (cut and paste not copy) from one HDFS directory to another

    Hello2.dat moved from test data to test data1
```

```
[root@sandbox-hdp ~] # hdfs dfs -ls /
found 19 items

drwxrwxrwx -
drwxr-xr-x -
drwxr-xr-x -
drwxr-xr-x -
drwxr-xr-x -
                                                                                                                              0 2018-06-18 15:18 /app-logs
0 2018-06-18 16:13 /apps
0 2018-06-18 14:52 /ats
0 2020-05-23 03:15 /bigdatatest
0 2020-05-23 03:10 /bigdatatest
0 2020-05-23 02:31 /hadoop2
0 2020-05-23 02:10 /hadoop3
0 2020-05-23 02:10 /hadoop3
0 2020-05-23 02:12 /hadoop4
0 2018-06-18 14:52 /hdp
0 2018-06-18 15:11 /livy2-recove
0 2018-06-18 15:11 /livy2-recove
0 2018-06-18 14:52 /mapred
0 2018-06-18 14:52 /mr-history
                                                 yarn
hdfs
yarn
root
                                                                         hadoop
                                                                         hdfs
hadoop
hdfs
                                                  root
                                                                         hdfs
                                                                                                                                                                                              /bigdatates/
/hadoop2
/hadoop3
/hadoop4
/hdp
/hello
/livy2-reco
/mapred
/mr-history
                                                                                                                              0 2020-05-23
0 2020-05-23
0 2020-05-23
0 2018-06-18
0 2020-05-23
0 2018-06-18
0 2018-06-18
drwxr-xr-x
                                                  root
                                                                         hdfs
 -rwxr-xr-x
                                           1
                                                  root
                                                                         hdfs
-rwxr-xr-x
-rwxr-xr-x
drwxr-xr-x
drwxr-xr-x
drwxr-xr-x
                                                                         hdfs
hdfs
hdfs
                                          1 root hdfs
- hdfs hdfs
- root hdfs
- livy hdfs
- mapred hdfs
- mapred hadoop
- hdfs hdfs
- spark hadoop
- root hdfs
- root hdfs
- hdfs hdfs
- hdfs hdfs
- hdfs hdfs
                                                                                                                                                                                                                     recovery
drwxrwxrwx
                                                                                                                                                                         14:52
                                                                                                                                                                         15:59
00:27
09:41
09:24
                                                                                                                                                                                               /mr-nstory
/ranger
/spark2-history
/test_data
/test_data1
drwxr-xr-x
                                                                                                                               0 2018-06-18
                                                                                                                                   2018-06-18 15:59 /rang
2020-05-23 00:27 /spar
2020-05-23 09:41 /test
2020-05-23 09:24 /test
2018-06-18 16:06 /tmp
2018-06-18 16:08 /user
drwxrwxrwx
drwxr-xr-x
drwxr-xr-x
                                                                                                                               0 2020-05-23
0 2020-05-23
0 2020-05-23
drwxrwxrwx
drwxr-xr-x
                                                 hdfs
                                                                         hdfs
                                                                                                                               0
arwxr-xr-x - hdfs hdfs 0 2018-06-18 16:08 /user
[root@sandbox-hdp ~] # hdfs dfs -rm -r /bigdatatest
20/05/23 09:46:25 INFO fs.TrashPolicyDefault: Moved: 'hdfs://sandbox-hdp.h
0/user/root/.Trash/Current/bigdatatest
[root@sandbox-hdp ~] # hdfs dfs -ls /
Found 18 items
                                                                                                                             0 2018-06-18 15:18
0 2018-06-18 16:13
0 2018-06-18 14:52
0 2020-05-23 03:10
0 2020-05-23 02:31
0 2020-05-23 02:10
0 2020-05-23 02:12
0 2018-06-18 14:52
Found 18 items
drwxrwxrwx -
                                                                                                                                                                                            /app-logs
/apps
/ats
/bigdatatest1
/hadoop2
/hadoop3
/hadoop4
                                                                         hadoop
drwxr-xr-x
drwxr-xr-x
drwxr-xr-x
drwxr-xr-x
                                                  hdfs
                                                                         hdfs
                                                 yarn
root
root
                                                                         hadoop
hdfs
hdfs
                                           1 root
 -rwxr-xr-x
                                                                         hdfs
                                                                                                                                                                         02:10
02:12
14:52
05:35
15:11
14:52
  rwxr-xr-x
                                           1
                                                  root
                                                                         hdfs
                                                                                                                                                                                              /hadoop4
/hdp
/hello
/livy2-recovery
/mapred
/mr-history
/ranger
/spark2-history
/test_data
/test_datal
/tmp
/user
drwxr-xr-x
                                            - hdfs
                                                                         hdfs
drwxr-xr-x
drwxr-----
drwxr-xr-x
drwxrwxrwx
                                                                         hdfs
hdfs
hdfs
                                                                                                                                    2020-05-23
2018-06-18
2018-06-18
2018-06-18
                                           - mapro
                                                 mapred
                                                 mapred
                                                                         hadoop
drwxr-xr-x
drwxrwxrwx
                                                                         hdfs
                                                                                                                               0 2018-06-18
0 2020-05-23
                                                                                                                                                                          15:59
00:27
                                                  spark
root
                                                                         hadoop
drwxr-xr-x
drwxr-xr-x
drwxrwxrwx
                                                                                                                               0 2020-05-23
0 2020-05-23
0 2018-06-18
0 2018-06-18
                                                                                                                                                                         09:41
09:24
16:06
16:08
                                                                         hdfa
                                           - hdfs
drwxr-xr-x
                                                                         hdfs

    -rm -r can be used to remove delete directories even if they are not empty
```