

HADOOP COMMANDS

Mkdir

This command is used to create a directory in Hadoop file system.

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -mkdir /assignment2
```

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -ls /
```

Found 3 items

| | | | | | | |
|------------|---|------|------------|---|------------------|--------------|
| drwxr-xr-x | - | nimi | supergroup | 0 | 2017-01-26 13:03 | /assignment2 |
| drwxr-xr-x | - | nimi | supergroup | 0 | 2017-01-26 22:42 | /nirmal |
| drwxr-xr-x | - | nimi | supergroup | 0 | 2017-01-26 11:48 | /testdir |

Browsing HDFS

localhost:50070/explorer.html#/

Search

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Hadoop Overview Datanodes Snapshot Startup Progress Utilities ▾

Browse Directory

Go!

| Permission | Owner | Group | Size | Last Modified | Replication | Block Size | Name |
|------------|-------|------------|------|------------------------|-------------|------------|-----------------------------|
| drwxr-xr-x | nimi | supergroup | 0 B | 1/26/2017, 10:59:38 PM | 0 | 0 B | assignment2 |
| drwxr-xr-x | nimi | supergroup | 0 B | 1/26/2017, 10:42:33 PM | 0 | 0 B | nirmal |
| drwxr-xr-x | nimi | supergroup | 0 B | 1/26/2017, 11:48:16 AM | 0 | 0 B | testdir |

Touchz

Creates a file of zero bytes.

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -touchz /assignment2/sample.txt
```

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -ls /assignment2
```

Found 1 items

| | | | | | | |
|------------|---|------|------------|---|------------------|-------------------------|
| -rw-r--r-- | 1 | nimi | supergroup | 0 | 2017-01-26 22:59 | /assignment2/sample.txt |
|------------|---|------|------------|---|------------------|-------------------------|

```
nimi@ubuntu:~$
```

appendToFile

Appends the contents of the source file to the destination file.

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -appendToFile /home/nimi/Desktop/append /assignment2/sample.txt
```

/assignment2

Go!

| Permission | Owner | Group | Size | Last Modified | Replication | Block Size | Name |
|------------|-------|------------|------|-----------------------|-------------|------------|----------------------------|
| -rw-r--r-- | nimi | supergroup | 42 B | 1/27/2017, 1:18:32 AM | 1 | 128 MB | sample.txt |

Hadoop, 2016.

Checksum

Checksum of the file is returned.

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -checksum /assignment2/sample.txt
/assignment2/sample.txt MD5-of-0MD5-of-512CRC32C 00000200000000000000000029dd388c60b3
df7cc3b10a049504282b
nimi@ubuntu:~$
```

Cat

Displays the contents of the file.

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -cat /assignment2/sample.txt
hey i am appending you to the hadoop file
nimi@ubuntu:~$
```

Put

Copies the file from one location to another.

This command differs from copyFromLocal which copies files only from local system to HDFS.

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -put /home/nimi/Desktop/putcopy /a
ssignment2
nimi@ubuntu:~$
```

Browse Directory

| /assignment2 | | | | | | | Go! |
|--------------|-------|------------|------|-----------------------|-------------|------------|----------------------------|
| Permission | Owner | Group | Size | Last Modified | Replication | Block Size | Name |
| -rw-r--r-- | nimi | supergroup | 35 B | 1/27/2017, 1:54:16 AM | 1 | 128 MB | putcopy |
| -rw-r--r-- | nimi | supergroup | 42 B | 1/27/2017, 1:18:32 AM | 1 | 128 MB | sample.txt |

Hadoop, 2016.

Count

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

h – Human readable format

q – Data with columns are displayed

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -count -h /assignment2/*.*
1 42 /assignment2/sample.txt
0 1 35 /assignment2/putcopy
0 1 42 /assignment2/sample.txt
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -count -q /assignment2/*
none inf none inf 0 1 35 /assignment2/putcopy
none inf none inf 0 1 42 /assignment2/sample.txt
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -count -q -h /assignment2/*
none inf none inf 0 1 35 /assignment2/putcopy
none inf none inf 0 1 42 /assignment2/sample.txt
nimi@ubuntu:~$
```

df

Display free space in bytes and human readable format.

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -df
Filesystem                Size      Used    Available  Use%
hdfs://localhost:9000    17055490048  61440  10401353728    0%
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -df -h
Filesystem                Size      Used    Available  Use%
hdfs://localhost:9000    15.9 G    60 K      9.7 G      0%
nimi@ubuntu:~$
```

Du

Displays sizes of files and directories contained in the given directory or the length of a file in case its just a file.

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -du /assignment2
35  /assignment2/putcopy
42  /assignment2/sample.txt
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -du -s /assignment2
77  /assignment2
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -du -h /assignment2
35  /assignment2/putcopy
42  /assignment2/sample.txt
nimi@ubuntu:~$
```

Get

Copies the file from the Hadoop file system to the local destination

```
nimi@ubuntu:~$ /usr/local/bin/hadoop-2.7.3/bin/hadoop fs -get /assignment2/sample.txt /home/
nimi/Desktop
nimi@ubuntu:~$ ls -l /home/nimi/Desktop
total 12
-rw-rw-r-- 1 nimi nimi 42 Jan 27 01:14 append
-rw-rw-r-- 1 nimi nimi 35 Jan 27 01:53 putcopy
-rw-r--r-- 1 nimi nimi 42 Jan 27 03:20 sample.txt
nimi@ubuntu:~$
```