[Hadoop File System Shell Commands](http://www.technewsncareer.com/2017/09/hadoop-file-system-command-1.html)

[Mir](https://plus.google.com/110443848141532466224)  September 29, 2017  [Hadoop Tutorial](http://www.technewsncareer.com/search/label/Hadoop%20Tutorial)  [No comments](http://www.technewsncareer.com/2017/09/hadoop-file-system-command-1.html#comment-form)

The File System (FS) shell includes different shell-like commands that directly interrelate with the [Hadoop Distributed File System (HDFS)](https://goo.gl/afAU4h) as well as other file systems that Hadoop supports, such as Local FS, HFTP FS, S3 FS, and others

Hadoop file system (fs) shell commands are used to perform various file operations like copying file, changing permissions, viewing the contents of the file, changing ownership of files, creating directories etc.

**ls**

The hadoop **ls** command is used to show the directories and files. An example is shown below

|  |
| --- |
| c:\hadoop-2.3.0\bin>hadoop fs -ls /  Found 5 items  drwxr-xr-x   - TNC supergroup          0 2017-10-11 19:14 /mir  drwx------   - TNC supergroup          0 2017-10-11 19:58 /tmp  drwxr-xr-x   - TNC supergroup          0 2017-10-11 19:46 /wcop  drwxr-xr-x   - TNC supergroup          0 2017-10-11 20:00 /wcop1  drwxr-xr-x   - TNC supergroup          0 2017-10-11 23:58 /wcop2 |

**ls –R**

The hadoop lsr command recursively shows the directories, sub directories and files in the specified directory. The usage example is shown below:

|  |
| --- |
| c:\hadoop-2.3.0\bin>hadoop fs -ls -R /wcop1  -rw-r--r--   1 TNC supergroup          0 2017-10-11 20:00 /wcop1/\_SUCCESS  -rw-r--r--   1 TNC supergroup         20 2017-10-11 19:59 /wcop1/part-r-00000 |

**Cat**

Hadoop **cat** command is used to print the contents of the file on the terminal (stdout). The usage example of hadoop cat command is shown below:

|  |
| --- |
| c:\hadoop-2.3.0\bin>hadoop fs -ls -R /wcop1  -rw-r--r--   1 TNC supergroup          0 2017-10-11 20:00 /wcop1/\_SUCCESS  -rw-r--r--   1 TNC supergroup         20 2017-10-11 19:59 /wcop1/part-r-00000 |

**Chmod**

The hadoop chmod command is used to change the permissions of files. The -R option can be used to recursively change the permissions of a directory.

|  |
| --- |
| c:\hadoop-2.3.0\bin>hadoop fs -chmod 777 /HdoopTutorial |

**Mkdir**

The hadoop **mkdir** command is for creating directories in the [hdfs](https://goo.gl/afAU4h). You can use the -p option for creating parent directories. This is like to the unix mkdir command. The usage example is shown below:

|  |
| --- |
| c:\hadoop-2.3.0\bin>hadoop fs -mkdir /HadoopTutorial  c:\hadoop-2.3.0\bin>hadoop fs -ls /  Found 6 items  drwxr-xr-x   - TNC supergroup          0 2017-10-14 20:37 /HadoopTutorial  drwxr-xr-x   - TNC supergroup          0 2017-10-11 19:14 /mir  drwx------   - TNC supergroup          0 2017-10-11 19:58 /tmp  drwxr-xr-x   - TNC supergroup          0 2017-10-11 19:46 /wcop  drwxr-xr-x   - TNC supergroup          0 2017-10-11 20:00 /wcop1  drwxr-xr-x   - TNC supergroup          0 2017-10-11 23:58 /wcop2 |
|  |

**copyFromLocal**

The hadoop **copyFromLocal** command is used to copy a file from the local file system to the hadoop [hdfs](https://goo.gl/afAU4h). The syntax and usage example are shown below:

|  |
| --- |
| c:\hadoop-2.3.0\bin>Hadoop fs -copyFromLocal C:\pract\hadoopTutorialbyMir.txt /H  doopTutorial/  c:\hadoop-2.3.0\bin>hadoop fs -ls -R /Hdoop\*  -rw-r--r--   1 TNC supergroup         51 2017-10-14 20:40 /HdoopTutorial/hadoopT  utorial.txt  -rw-r--r--   1 TNC supergroup         51 2017-10-14 20:47 /HdoopTutorial/hadoopT  utorialbyMir.txt |

**copyToLocal**

The hadoop **copyToLocal** command is used to copy a file from the hdfs to the local file system. The syntax and usage example is shown below:

|  |
| --- |
| c:\hadoop-2.3.0\bin>Hadoop fs -copyToLocal /HdoopTutorial/hadoopTutorial.txt C:\  pract\ |

**Cp**

The hadoop **cp** command is for copying the source into the destination. The cp command can also be used to copy multiple files into the destination. In this case the destination should be a directory

|  |
| --- |
| c:\hadoop-2.3.0\bin>hadoop fs -cp /HdoopTutorial/ /wcop/  c:\hadoop-2.3.0\bin>hadoop fs -ls -R /wcop  drwxr-xr-x   - TNC supergroup          0 2017-10-14 20:53 /wcop/HdoopTutorial  -rw-r--r--   1 TNC supergroup         51 2017-10-14 20:53 /wcop/HdoopTutorial/ha  doopTutorial.txt  -rw-r--r--   1 TNC supergroup         51 2017-10-14 20:53 /wcop/HdoopTutorial/ha  doopTutorialbyMir.txt |

**Rm**

Delete files specified as args.

If trash is enabled, file system instead moves the deleted file to a trash directory

|  |
| --- |
| hadoop fs -rm /exercise2/hamlet.txt  Deletion interval = 0 minutes, Emptier interval = 0 minutes.  Deleted /exercise2/hamlet.txt  hadoop fs -rm -r /exercise1  Emptier interval = 0 minutes.  Deleted /exercise1 |

**AppendToFile**

**Append** single src, or multiple srcs from local file system to the destination file system. Also reads input from stdin and appends to target file system.

|  |
| --- |
| hadoop fs -appendToFile /exercise1/hamlet.txt /home/administrator/$PLAY\_AREA/exercises/filesystem/hamlet.txt |

**Put**

Hadoop **put** command is used to copy multiple sources to the destination system.

|  |
| --- |
| c:\hadoop-2.3.0\bin>Hadoop fs -put C:/pract/sample.txt /Tutorial |

Get

**get**

Hadoop **get** command copies the files from hdfs to the local file system. The syntax of the get command is shown below

|  |
| --- |
| hadoop fs -get /user/hadoop/file localfile |

**Getmerge**

hadoop **getmerge** command concatenates the files in the source directory into the destination file.

|  |
| --- |
| hadoop fs -getmerge -nl /exercise2/stu\*.txt /home/administrator/Desktop/mergeAll.txt /home/administrator/stu.txt |

**Du**

The hadoop **dus** command prints the summary of file lengths .

|  |
| --- |
| c:\hadoop-2.3.0\bin>hadoop fs -du -s /Tutorial  51  /Tutorial |

**Setrep**

Hadoop **setrep** is used to change the replication factor of a file. Use the -R option for recursively changing the replication factor.

|  |
| --- |
| c:\hadoop-2.3.0\bin>hadoop fs -setrep -w 4 -R /Tutorial  Replication 4 set: /Tutorial/hadoopTutorial.txt  Waiting for /Tutorial/hadoopTutorial.txt ..... |

**Stat**

Hadoop **stat** returns the stats information on a path. The syntax of stat is shown below:

|  |
| --- |
| c:\hadoop-2.3.0\bin>Hadoop fs -stat /Tutorial  2017-10-14 15:31:29 |

**Tail**

Hadoop **tail** command prints the last lines of the file. The -f option can be used same as in unix

|  |
| --- |
| c:\hadoop-2.3.0\bin>Hadoop fs -tail /Tutorial/sample.txt  This is hadoop tutorial By Mir  -Tech News n Career |

**Touchz**

The hadoop **touchz** command creates a zero byte file. This is similar to the touch command in unix. The syntax is shown below:

|  |
| --- |
| c:\hadoop-2.3.0\bin>Hadoop fs -touchz /Tutorial/sample1.txt  c:\hadoop-2.3.0\bin>hadoop fs -ls /Tu\*  Found 3 items  -rw-r--r--   4 TNC supergroup         51 2017-10-14 20:40 /Tutorial/hadoopTutori  al.txt  -rw-r--r--   1 TNC supergroup         51 2017-10-14 21:12 /Tutorial/sample.txt  -rw-r--r--   1 TNC supergroup          0 2017-10-14 21:14 /Tutorial/sample1.txt |

**Mv**

**Moves** files from source to destination. This command allows multiple sources as well in which case the destination needs to be a directory. Moving files across file systems is not permitted.

|  |
| --- |
| hadoop fs -mv /exercise1/hamlet.txt /exercise2  drwxr-xr-x   - administrator supergroup          0 2017-07-15 17:12 /exercise1  -rw-r--r--   1 administrator supergroup       2276 2017-07-15 16:44 /exercise1/hamlet\_hdfsCopy.txt  drwxr-xr-x   - administrator supergroup          0 2017-07-15 17:12 /exercise2  -rw-r--r--   3 administrator supergroup       2276 2017-07-15 16:27 /exercise2/hamlet.txt |