HDFS CommandsThis document will help you understand the basic Hadoop commands, using which you can  
perform different operations on hdfs.

Note: Please do not copy paste the commands, instead type them manually on the terminal.

Command to find the Version of Hadoop:

Command: hadoop version

LS command:Displays List of Files and Directories in HDFS file Path  
Command: hadoop dfs –ls /

MKDIR command:It creates the directory in HDFS  
Syntax: hdfs dfs –mkdir /directory\_name

E.g: hdfs dfs –mkdir /new\_dsac

DU command:Displays the summary of file lengths.  
Syntax: hdfs dfs –du –s /path/to/file\_in\_hdfs  
Command: hdfs dfs –du –s /new\_edureka/test  
Note: Here test is a file that exists in HDFS in the directory new\_edureka

TOUCHZ command:Create a file in HDFS with file size 0 bytes  
Syntax: hdfs dfs –touchz /directory/filename  
E.g: hdfs dfs –touchz /newedureka/sample.  
Note: Here we are trying to create a file named “sample” in the directory ‘new\_edureka’ of  
hdfs with file size 0 bytes.  
Use the du command to check the file size  
Command: hdfs dfs –du –s /new\_edureka/sample

CAT command:Copies source paths to stdout.  
Syntax: hdfs dfs –cat /path/to/file\_in\_hdfs  
Command: hdfs dfs –cat /new\_edureka/test  
Note: Here test is a file that exists in HDFS in the directory new\_edureka

TEXT command:Takes a source file and outputs the file in text format.( Same as Cat command )  
Syntax: hdfs dfs –text /path/to/file\_in\_hdfs  
Command: hdfs dfs –text /new\_edureka/test  
Note: Here test is a file that exists in HDFS in the directory new\_edureka

E.g: hdfs dfs –copyFromLocal /home/edureka/Desktop/test /new\_edureka

Note: Here test is the file present in the local directory - /home/edureka/Desktop

copyFromLocal command :Copy the file from Local file system to HDFS.  
Syntax: hdfs fs -copyFromLocal <localsrc> URI

E.g: hdfs dfs –copyFromLocal /home/edureka/Desktop/test /new\_edureka  
Note: Here test is the file present in the local directory - /home/edureka/Desktop

copyToLocal command :Copy the file from HDFS to Local File System.  
Syntax: hdfs fs -copyToLocal URI <localdst>  
Command: hdfs dfs –copyToLocal /new\_edureka/test /home/edureka  
Note: Here test is a file present in new\_edureka directory of HDFS

PUT command:Copy single source, or multiple srcs from local file system to the destination file system.  
Syntax: hdfs fs -put <localsrc> ... <dst>  
Command: hdfs dfs –put /home/edureka/Desktop/test /user

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

GET command:Copy files from hdfs to the local file system.  
Syntax: hadoop fs -get [-ignorecrc] [-crc] <src> <localdst>  
E.g: hdfs dfs –get /user/test /home/edureka

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

COUNT command:Count the number of directories, files and bytes under the paths that match the specified file  
pattern.  
Command: hdfs dfs –count /user

RM command:Remove the file from HDFS.  
Syntax: hdfs dfs –rm /path/to/file\_in\_hdfs  
Command: hdfs dfs –rm /new\_edureka/test

RMR command:Remove the directory to HDFS  
Syntax: hdfs dfs –rmr /path/to/directory\_in\_hdfs  
Command: hdfs dfs –rmr /new\_edureka/

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| **Basic Linux Commands** |
| **Command** | **Usage** | **Description** |
| **ls** | **ls /directory\_path eg:** ls /home/edureka | List files |
| **cp** | **cp src\_file\_path /destination\_directory\_path eg:** cp student /home/edureka/Desktop | Copy files |
| **mv** | **mv src \_file\_path /destination\_directory\_path eg:** mv myfile.txt /newdirectory **mv current\_filename new\_filename eg:** mv computer.txt computer\_hope.txt | Renames a file or moves it from one directory to another directory |
| **rm** | **rm file\_path eg:** rm /home/edureka/Desktop/file\_name | Delete files |
| **ln** | **ln file\_path /destination\_directory\_path eg:** ln student /home/edureka/Desktop | Link files |
| **cd** | **cd /Directory\_path eg:** cd /home/edureka/Desktop | Change directory |
| **pwd** | **pwd** | Print current directory name or Present Working Directory |

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| **Command** | **Usage** | **Description** |
| **mkdir** | **mkdir /new\_directory\_path eg:** mkdir /home/edureka/Desktop/new\_directory | Create directory |
| **rmdir** | **rmdir /directory\_path eg:** rmdir /home/edurekaDesktop/directory | Delete directory |
| **cat** | **cat /file\_path eg:** cat /home/edureka/file\_name | View files |
| **nl** | **nl /file\_path eg:** nl studentRoll | Number lines |
| **gedit** | **gedit /file\_path eg:** gedit studentRoll | Text Editor |
| **stat** | **stat /file\_path eg:** stat studentRoll | Display file attributes(properties) |
| **wc** | **wc /file\_path eg:** wc studentRoll | Count bytes/words/lines |
| **chown** | **chown user\_name file\_path eg:** chown edureka /home/edureka/Desktop/README.txt | Change file owner |
| **chgrp** | **chgrp group\_name /file\_path eg:** chgrp admin /home/edureka/Desktop/README.txt | Change file group |
| **ifconfig** | **ifconfig** | Set/display network information/ Ip address |
| **chattr** | **sudo chattr +i/-i /file\_path eg:** sudo chattr +i /home/edureka/Desktop/README.txt | Change advanced file attributes |