

# The Linux Command – Usage, Syntax, and Example

#### 1. man command:

Use man < command > to get the manual of the command

**\$man ls** # get the manual of the command

# 2. echo command:

echo command prints its argument to the screen

**\$echo** "string" # print string to the screen

#### 3. cd command:

cd means change directory)

**\$cd folder\_name** # you are saying the computer to move to folder\_name folder

**\$cd..** # cd.. is used to go back 1 directory

\$cd ../.. # go back 2 directory

# 4. ls command:

list all the files that the folder contains using the ls command

\$ls

**\$ls folder\_name** # list all the files (not including hidden files) that the folder contains

\$ls -al folder\_name # list all the files including hidden files that the folder contains

\$ls \*.txt # list all the files with a pattern. pattern is looking for files ending with

the character .txt

**\$ls file\*** # To fetch files that have the prefix "file", you can use the wildcard

pattern file\*

**\$ls** \*file\* # If you're trying to list files with names containing the word "file", you

might want to use a different wildcard pattern

# 5. pwd command

\$pwd	# print the current folder path
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# 6. mkdir command:

**\$mkdir folder\_name** # creating a folder with folder\_name

**\$mkdir folder1 folder2** # create multiple folders with one command

**\$mkdir -p folder3/folder4** # create multiple nested folders by adding the -p option

#### 7. rmdir and rm command:

**\$rmdir folder\_name** # delete a empty folder using rmdir

**\$rmdir folder1 folder2** # delete multiple empty folders with one command

**\$rm -r folder\_name** # remove a directory and its contents recursively, you can use

the rm command with the -r

#### 8. my command:

**\$mv** file1.txt file\_new1.txt # rename files with mv command

**\$mv folder\_name new\_folder\_name** # rename folder with mv command

**\$mv** file1.txt file2.txt folder\_name # specify a list of files and they will all be moved in

the folder path identified by the last parameter

**\$mv \*.txt folder\_name** # move multiple files to a different directory using a

pattern search

# 9. cp command:

**\$cp -r folder\_1 folder\_2** # copy the whole folder contents of folder\_1 in folder\_2

**\$cp file1.txt folder\_1** # copy a file in a particular folder

**\$cp \*.txt folder\_1** # copy multiple files with a pattern search

# 10. open command:

**\$open filename** # open command, which is available on macOS systems to open files

For Linux systems use Vim, cat, and less commands to open the file

**\$vim filename** # open the file

#### 11. touch command:

**\$touch file\_name** # create an empty file using the touch command

# 12. cat command:

**\$cat file** # prints the file's content to the standard output

\$cat file1 file2 # Print the content of multiple files

**\$cat file1 file2 > file3** # using the output redirection operator > you can concatenate the

content of multiple files into a new file

#### 13. nl command:

**\$nl file\_name** # display the contents of a file with line numbers

#### 14. find command:

**\$find . -name '\*.txt'** # Find all the files under the current tree that have the .txt

extension and print the relative path of each file that matches

**\$find . -name file1.txt** # -name is case sensitive

**\$find . -name fiLE1.txt** # use -iname to perform a case-insensitive search

**\$find . -type d -name "folder\_name"** # Find directories under the current tree matching the

name "folder\_name"

\$find . -type d -name folder1 -or -name folder2 # Find directories under the current tree

matching the name "folder1" or 'folder2'

\$find . -type f -size +100k -size -1M #Search files bigger than 100KB but smaller than 1MB.

This is useful when you want to see which file is taking more spaces

# 15. alias command:

alias is used to create a new command, for example, I like to call it bioinfo\_journey, which is an alias to the cd path of

/drives/c/ashish\_personal/bioinfo\_byte/Build\_course/bioinfo\_course/Linux\_learning

Once you do, you can call bioinfo\_journey just like it was a regular linux command

# \$alias bioinfo\_journey='cd

/drives/c/ashish\_personal/bioinfo\_byte/Build\_course/bioinfo\_course/Linux\_learning'

\$alias # calling alias without any option will list the aliases defined

Note: The alias will work until the terminal session is closed.

To make it permanent, you need to add it to the shell configuration (~/.bashrc)

# 16. tail command:

\$tail -n 10 filename	# print the last 10 lines in a file
\$tail -n +10 filename	# print the whole file content starting from a specific line using +
before the line number	

#### 17. head command:

<b>\$head -n 10 filename</b> # print the conte	ent of starting 10 lines in a file
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#### 18. wc command:

**\$wc filename** # provide 3 information, first column returned is the number of lines. The second is the number of words. The third is the number of bytes

**\$wc -l filename** # just the lines

**\$wc -w filename** # just the words

**\$wc -c filename** # just the bytes

# 19. clear command:

**\$clear** # Type clear to clear all the previous commands that were run in the current terminal

# 20. diff command:

Suppose you have 2 files, that contain almost the same information, but you can't find the difference between the two. diff will process the files and will tell you what's the difference

\$diff file1.txt file2.txt # display differences between versions
\$diff -u file1.txt file2.txt # display differences between versions
\$diff -rq file1 file2 # In case you're interested in which files differ, rather than the content, use the rq options

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