20 Basic Linux Commands

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Assignment I

Commands

- 1. To find out the present working directory: pwd
- 2. To list out the directories and files in present directory: Is
- 3. To change directory to specified path: cd
- 4. To make a directory: mkdir
- 5. To create a file: touch
- 6. To edit file: gedit filename / vim filename /nano filename

```
(base) divyansh@divyansh-HP:-$ pwd
/home/divyansh
(base) divyansh@divyansh-HP:-$ ls
anaconda3 Documents Music Public snap ws2
assignment3 Downloads Pictures README.md Templates
Desktop Dropbox prac_rosext rosclass Videos
(base) divyansh@divyansh-HP:-$ cd Desktop
(base) divyansh@divyansh-HP:-/Desktop$ mkdir Folder
(base) divyansh@divyansh-HP:-/Desktop$ cd Folder
(base) divyansh@divyansh-HP:-/Desktop/Folder$ touch filename.txt
(base) divyansh@divyansh-HP:-/Desktop/Folder$ vim filename.txt
```

- 7. To change the modifications of a file: chmod +
- 8. To read or concatenate a file: cat
- 9. To clear the screen: clear

```
(base) divyansh@divyansh-HP:~/Desktop/Folder$ chmod +x filename.txt
(base) divyansh@divyansh-HP:~/Desktop/Folder$ ls
filename.txt
(base) divyansh@divyansh-HP:~/Desktop/Folder$ cat filename.txt
My first file
(base) divyansh@divyansh-HP:~/Desktop/Folder$ clear
```

- 10. To delete a file: rm
- 11. To delete a directory: rmdir
- 12. To see free RAM: free -h
- 13. To find out the date and time: date
- 14. To display calendar: cal
- 15. To find file via names: find -name 'prefix*'

(base) divyansh@divyansh-HP:~/Desktop\$ find -name 'DSA*'
./DSA.pdf

```
base) divyansh@divyansh-HP:~/Desktop/Folder$ rm filename.txt
(base) divyansh@divyansh-HP:~/Desktop/Folder$ ls
(base) divyansh@divyansh-HP:~/Desktop/Folder$ cd ...
base) divyansh@divyansh-HP:~/Desktop$ rmdir Folder
base) divyansh@divyansh-HP:~/Desktop$ free -h
                                              free
                                                          shared
                                                                   buff/cache
                7.6Gi
                               3.2Gi
                                                                         2.0Gi
Mem:
                                                                                        4.1Gi
                2.0Gi
                                             2.0Gi
Swap:
(base) divyansh@divyansh-HP:~/Desktop$ date
Thursday 15 July 2021 03:29:27 PM IST (base) divyansh@divyansh-HP:~/Desktop$ cal
     July 2021
Su Mo Tu We Th Fr Sa
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
```

A lot of commands have further specifications like:

16. To list all the hidden files and dir within present directory: Is -a

```
(base) divyansh@divyansh-HP:-$ ls
. Downloads
                                                                         Templates .thunderbird
                 .dropbox-dist
                                         prac rosext
assignment3
                                         .profile
                                                                         .vim_mru files
.astropy
.bash_history
                                         .python history
                 gnupg
ignition
                                         README.md
bashrc
                 .ipynb_checkpoints
                 .ipython
conda
                 .jupyter
condarc
                                                                         .zshrc
Desktop
                                          .sudo_as_admin_successful
```

17. To get a detailed list of all the files: Is -al

```
divyansh@divyansh-HP:~$ ls
 total 276
 drwxr-xr-x 44 divyansh divyansh 4096 Jul 15 15:21 .
drwxr-xr-x 3 root root
drwxrwxr-x 3 divyansh divyansh
                                                            4096 Jul 1 15:15 .
4096 Jul 2 19:13 .anaconda
drwxrwxr-x 26 divyansh divyansh 4096 Jul 2 19:12 anaconda3
drwxrwxr-x 5 divyansh divyansh 4096 Jul 13 17:00 assignment3
drwxrwxr-x 5 divyansh divyansh
drwxrwxr-x 4 divyansh divyansh
                                                            4096 Jul 5 17:19 .astropy
 -rw------ 1 divyansh divyansh 20178 Jul 15 15:22 .bash_history
-rw-r--r-- 1 divyansh divyansh 220 Jul 1 15:15 .bash_logout
-rw-r--- 1 divyansh divyansh 4489 Jul 14 17:27 bashrc
drwx----- 32 divyansh divyansh 4096 Jul 12 17:06 cache
drwxrwxr-x 2 divyansh divyansh 4096 Jul 5 17:36 conda
-rw-rw-r-- 1 divyansh divyansh 4096 Jul 5 17:07 condard
drwx----- 28 divyansh divyansh 4096 Jul 14 19:04 config
drwxr-xr-x 4 divyansh divyansh 4096 Jul 14 19:04 .config
drwxr-xr-x 2 divyansh divyansh 4096 Jul 15 15:26 Desktop
drwxr-xr-x 2 divyansh divyansh 4096 Jul 1 21:00 Document
drwxr-xr-x 4 divyansh divyansh 4096 Jul 14 22:52 Download
                                                                              1 21:00 Documents
14 22:52 Downloads
drwx----- 8 divyansh divyansh 4096 Jul 15 2021 .dropbox drwx----- 4 divyansh divyansh 4096 Jul 15 2021 Dropbox drwxrwxr-x 3 divyansh divyansh 4096 Jul 3 16:01 .dropbox-dist
drwx----- 3 divyansh divyansh 4096 Jul 14 18:53 .fltk
drwxr--r-- 6 divyansh divyansh 4096 Jul 14 19:07 .gaze
                                                            4096 Jul 14 19:07 .gazebo
 drwxrwxr-x 7 divyansh divyansh
drwx----- 3 divyansh divyansh 4096 Jul
drwxr--r-- 2 divyansh divyansh 4096 Jul
                                                            4096 Jul 2 16:52 .gnupg
4096 Jul 14 18:52 .ignition
4096 Jul 6 18:16 .ipynb_checkpoints
drwxr--r-- 2 divyansh divyansh 4096 Jul
drwxrwxr-x 2 divyansh divyansh 4096 Jul
                                                                                6 18:47 .jupyter
1 21:00 .local
 drwxrwxr-x 3 divyansh divyansh
                                                             4096 Jul
 drwx----
                      3 divyansh divyansh 4096 Jul
 drwx-----
drwxrwxr-x
                     5 divyansh divyansh 4096 Jul 1 15:30 .mozilla
2 divyansh divyansh 4096 Jul 12 17:27 .mume
                                                             4096 Jul
                                                                              1 21:00 Music
                                                             4096 Jul 14 21:54 Pictures
 drwxr-xr-x 2 divyansh divyansh
                                                             4096 Jul 2 18:01 .pki
4096 Jul 13 18:47 prac_rosext
                      3 divyansh divyansh
 drwx----
drwxrwxr-x 6 divyansh divyansh
```

- 18. To directly goto the home diretory: cd / cd ~
- 19. To just go back one level in directory: cd ..
- 20. To auto complete some commands press tab or to list press double tab

```
base) divyansh@divyansh-HP:~$ ls -al
total 276
drwxr-xr-x 44 divyansh divyansh 4096 Jul 15 15:21 .
drwxr-xr-x 3 root root 4096 Jul 1 15:15 ...
drwxrwxr-x 3 divyansh divyansh 4096 Jul 2 19:13 .anaconda
drwxrwxr-x 26 divyansh divyansh 4096 Jul 2 19:12 anaconda3
drwxrwxr-x 5 divyansh divyansh 4096 Jul 13 17:00 assignment3 drwxrwxr-x 4 divyansh divyansh 4096 Jul 5 17:19 astropy
-rw------ 1 divyansh divyansh 20178 Jul 15 15:22 bash_history
-rw-r--r-- 1 divyansh divyansh 220 Jul 1 15:15 bash_logout
-rw-r--r-- 1 divyansh divyansh 4489 Jul 14 17:27 bashrc
drwx----- 32 divyansh divyansh 4096 Jul 12 17:06 cache
drwxr-xr-x 2 divyansh divyansh 4096 Jul
                                                                         1 21:00 Documents
drwxr-xr-x 4 divyansh divyansh 4096 Jul 14 22:52 Downloads drwx----- 8 divyansh divyansh 4096 Jul 15 2021 .dropbox drwx----- 4 divyansh divyansh 4096 Jul 15 2021 Dropbox
drwxrwxr-x 3 divyansh divyansh 4096 Jul 3 16:01 dropbo:
drwx----- 3 divyansh divyansh 4096 Jul 14 18:53 .fltk
drwxr--r-- 6 divyansh divyansh 4096 Jul 14 19:07 .gazebo
                                                                        3 16:01 .dropbox-dist
14 18:53 .fltk
drwxrwxr-x
                                                                         2 16:52 .gnupg
                     3 divyansh divyansh 4096 Jul
drwx----
drwxr--r-- 2 divyansh divyansh 4096
drwxrwxr-x 2 divyansh divyansh 4096
                    2 divyansh divyansh 4096 Jul 14 18:52 .ignition
2 divyansh divyansh 4096 Jul 6 18:16 .ipynb_checkpoints
                                                                          6 18:47 .jupyter
1 21:00 .local
drwxrwxr-x
                    3 divyansh divyansh 4096 Jul
                     3 divyansh divyansh 4096
drwx----
                                                                 Jul
                    5 divyansh divyansh 4096 Jul
drwxrwxr-x 2 divyansh divyansh 4096 Jul 12 17:27 .mume
drwxr-xr-x 2 divyansh divyansh 4096 Jul 12 1:00 Music
drwxr-xr-x 2 divyansh divyansh 4096 Jul 14 21:54 Pictures
drwx----- 3 divyansh divyansh drwxrwxr-x 6 divyansh divyansh
                                                                         2 18:01 .pki
13 18:47 prac_rosext
                    3 divyansh divyansh
                                                        4096 Jul
                                                        4096 Jul
```