

Linux

Ctrl + Alt + T # Open Terminal

--help # ls --help will display all the menu of ls

--v # --v check the version

ls # show list of directories

pwd # print working directory

cd # change directory

cd .. # change back to same directory

mkdir # make a directory

rm # remove file

rm -d # remove directory

touch # make a blank file

cat # show the content of text file i.e cat 1.txt it will show the content of 1.txt file

less # same work as cat but it display in separately

man +help # display all manual command

grep # move from one to another

mv # move from one to another

```
amir@amir:~/Desktop$ mv 1.txt Data/
```

Here I move the 1.txt file and paste into Data Folder

cp # copy from one to another

```
amir@amir:~/Desktop$ cp 2.txt Data/
```

Relative path

Here I copy the 2.txt file and paste it into Data Folder

```
amir@amir:~$ cp Desktop/Data/1.txt Desktop/
```

Absolute path

Here I copy the 1.txt file and into Desktop

Users in Linux

1. **Regular Users (\$):** They are normal users like u1, u2, u3 and they don't have access to see another home directory
2. **Root User (#):** They are super users they have access and control to do anything
`sudo su` # to go into root (and to exit from root to regular type exit)
 For example, if want to use it as a root user then through sudo I can use
`sudo apt-get update` # update a list
`sudo apt upgrade` # actual install software
3. **Service User:** They provide the service like apache2 etc

ls -R Not only show the directory but also show the content inside the directory as well

touch .science # if I want to create a hidden file then with (dot) I can do this

```
amir@amir:~/Desktop$ touch .science
amir@amir:~/Desktop$ ls
1.txt 2.txt Data
```

ls -a # show hidden file (science in my case)

```
amir@amir:~/Desktop$ ls -a
.  ..  1.txt 2.txt Data .science
```

clear # clean the terminal

history # show the history of your commands that you run in terminal

echo # print your text

```
amir@amir:~/Desktop$ echo amir
amir
```

By using we can create the same name file in Linux but in the window we can't

```
amir@amir:~/Desktop$ touch Amir.txt
amir@amir:~/Desktop$ touch AMIR.txt
amir@amir:~/Desktop$ touch amir.txt
amir@amir:~/Desktop$ ls
1.txt 2.txt AMIR.txt amir.txt Amir.txt Data
amir@amir:~/Desktop$
```

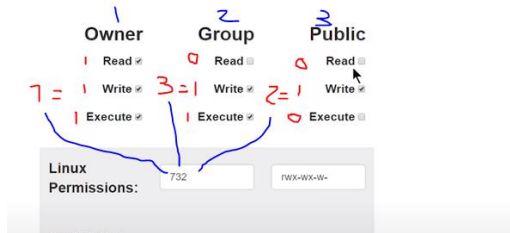
sudo apt install <package name> # install the desired package if you are a regular user

sudo su install <package name> # install the desired package if your root user

User Permission

Chmod Calculator

An awesome Chmod Calculator to convert Linux file permissions between different formats.



ls -ltr

```
amir@amir:~/Desktop$ chmod 000 1.txt
chmod: cannot access '1.txt': No such file or directory
amir@amir:~/Desktop$ chmod 000 2.txt
amir@amir:~/Desktop$ cat 2.txt
cat: 2.txt: Permission denied
amir@amir:~/Desktop$
```

top # show top process who consume more source

ps # list all the processes that run

ps -a # show all the background processes as well

kill # kill the process (by using top check process and kill the desired process use the id 23452 of that)

vim # text editor top open file vim file name (vim 1.txt and for type text press <i> for save and exit press ESC :wq or exit without save then press ESC :q!)