

Linux [Searching Files . VI Editor basic uses , Group Management , File ownership , Permission Modification]

Linux file system : **1. Locate (most powerfull command)**
2. Find

\$ **sudo apt install mlocate** (if not present locate command)

\$ **locate file1.txt** (to search the file path)

result of locate command depends on the db

\$ **sudo updatedb** (to update the db)

\$ **cd /var/lib/mlocate (location of db)**

\$ **cd ~** (switch to the root dir)

< using find command >

- Go to the perticular dir

\$ **find -name file2.txt**

\$ **find -name *.txt** (to view all .txt file in perticular dir)

\$ **find -name *.pdf** (to view all .pdf file in perticular dir)

Search Within File

'grep' command is used for searching some line/word in perticular file

\$ **grep mango fruits.txt** (find mango word in fruits.txt file)

\$ **grep -A2 apple fruits.txt** (to get above 2 lines of apple word)

VI Editor basic uses

command mode -----> insert

<----- ESC

last fine mode

\$ **vi fish.txt**

once you fire above command , press **'i'** to goto insert mode

now write something in file , once your writing is completed

press **'ESC'**

press **'ZZ'** or **:qw** to close the operations

for more details goto <vi cheatsheet >

<<https://ryanstutorials.net/linuxtutorial/cheatsheetvi.php>>

Group Management

\$ cat etc/group (to see all groups)

\$ sudo groupadd yanky (to create group 'yanky')

\$ sudo groupdel yanky (to delete group 'yanky') (never delete the group directly it's not good practice)

\$ sudo usermod -a -G mark tom (for modification of group mark & assigning tom to that group) where , mark : Group_name , tom : user_name

\$ history

\$ sudo groupadd -g 7777 developer (to add developer group with code 7777 , code can be anything)

\$ cat etc / group

\$ sudo userdel user_name (to delete the particular user)

\$ history > history.txt (to save the history in history.txt file)

I/O streams :

Datastream --> flow of data

1.Input stream : input provided by the user

2.Output stream : output

3.Error : all the errors (for any type of input is there is error)

File Ownership :

\$ cat etc / passwd (to get all users info)

\$ ls -l (list dir)

\$ sudo chown user_name filename (to give access of particular file to particular user)

\$ sudo chown user_name : group_name filename (to give access of particular file to particular user with changed group)

- > we can change the owner as well as Group of the file
- > we can change the permission for particular user for file .
- > Eg : suppose if there is 'sample.txt' and original user is 'mac' so i can change the owner of this file to 'shubham' & give only read permission to 'mac' & non-readable permission to other users.
- > only owner can change the permissions

\$ su user2 (switch from user1 to user2)

\$ su john

\$ chmod 040 file7.txt (changing the permission of file7)

\$ sudo chgrp group_name filename (change the group of file)

\$ sudo chown new_owner_name filename (change the owner of file)

\$ cat /etc / passwd (to see the user details)