

System Access Management

starts at 9:05 pm

→ empty files in the home directory of ubuntu user. created by ubuntu user modified in the last 4 days.

→ find /home/ubuntu -type f -mtime 4
-user ubuntu ↓
days

→ -mmin 300 → 5 hours
-mmin 5

Agenda.

→ Process Management

→ Sudo.

→ multi user linux, ownership, permissions and commands.

Process Management.

Process in a program under execution.

Different types.

① Interactive process →

eg:- browser, text editor.

② Batch Process. (No user interaction)

eg:- taking a DB backup

③ Daemon Process → run in the background.

→ logging

④ Real time Process → has a deadline.

eg:- UPI transactions.

Process lifecycle.

① NEW → creation of a process

② READY → it has all the resources but waiting for CPU to be assigned.

③ WAITING → waiting for user interaction.
eg:- Press Enter to move forward in a Script.

④ RUNNING → running of instructions.

⑤ TERMINATION → A process has completed

the execution.

Practical

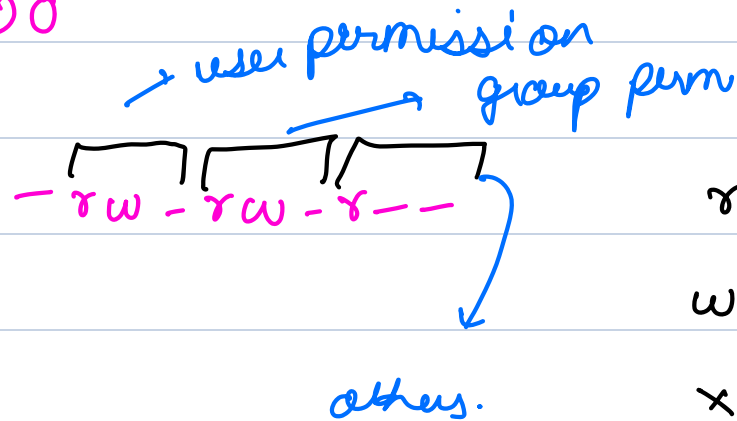
+ ps → process status

-a → all process for all users

u → user oriented information.

x → include daemon process's which

→ SUDO



r → read

w → write

x → execute.

- regular file

`rw-rw-rwx` `rw-rw-rwx` `rw-rw-rwx` `app.txt` `d` - directory.

root → all permission

→ super user.

sudo → super user do.

sudo vim /etc/sudoers

user ALL = (ALL) ALL → run as any other user.
→ host network
→ all commands.

webserver ALL = (ALL) / usr/bin/nginx

Break → 10:20

cat /etc/passwd. → has all user info.
cat /etc/group → " " group info

sudo useradd scala (create a new user)

sudo passwd scala (create password for the user)

su (switch user)

su scala.

exit → come out of scala user.

sudo su → to become root user.

`sudo userdel Scalr.`

Run command as other user.

`su -c 'command' username.`

`sudo su -c 'ls /root' root`

→ `sudo groupadd Scalr1`

Command to create a new group.

→ adding a user to a group.

`sudo usermod -aG groupname username.`
↳ "append"

`sudo usermod -aG Scalr1 Scalr.`

`sudo deluser username groupname.`

[deleting a user from group]

`sudo deluser Scalr Scalr1`

→ Ownership.

→ sudo chown username filename.

sudo chown scala apple.txt.

→ sudo chown :groupname filename.

[to change group ownership]

→ " " username:groupname filename.

→ changing file permissions.

chmod.

r → 4 [Numerical way]

w → 2

x → 1

rwx	rwx	rwx
421	421	421
7	7	7

← chmod 777 filename

rwx r-- --

chmod 740 filename.

→ chmod u+rwx filename.

[Alphabetical way]

chmod 700