

LEC 2

Day 2 — LECTURE

/usr/bin → all commands are saved there
/etc → has user configurations

User Accounts:-

- Root user (Administrator) :- only one
- Normal user :- can create many of them
- Service user :- created when I install apps

Note

Users

gnome → serve graphics

syslog → save logs

systemd-networkd

* sudo can act as root ⇒ root gave permissions to do stuff using the keyword sudo [as root is the manager and sudo has the permissions to act as the manager but root is still the main manager]

* to create user:- sudo adduser duck
tail -n1 /etc/passwd
→ will display data about new user

tail -n1 /etc/group

tail -n1 /etc/shadow

Sh
&
bash

* Linux preserves id (0-999) for service users

* From (1000) for normal users

sudo passwd duck

then

sudo tail -n1 /etc/shadow

will show the password encrypted

* to switch between different users

```
su user_name
```

* to delete user :-

```
sudo userdel user_name
```

`ls -l` → show all data about all files or folders in the folder I am in

`-rw-rw-r-- 1 noha noha 0 oct 22 11:50 ai`

file type (file or directory) permissions user created the file (owner user) user group file size date of file creation file name

in `/etc/passwd`

`noha : X : 1000 : 1000 : Noha : /home/noha : /bin/bash`

separator [colon separated line]

Login name : password : encrypted : userid : group id : Comment about user : /home directory : login shell

by default at first it's only the main user

But . when create new user..

- linux assign userid for this user
- create group (primary group) for this user with same name & ID

in `/etc/shadow`

`cat /etc/shadow` → permission denied

`sudo cat /etc/shadow` → will give permission to read shadow file

`man 5 shadow` → manual of the file data

*inactivity date → extra time to change password

! or * represented password (no idea what is it) but if

I can see the encryption of it it will displayed as encrypted data

* more /etc/group \Rightarrow has info about groups of users premissions

group name : pass word : group id : members (user_id).

* to Customize the creation of user:-

```
sudo useradd -u 10000 -g 1000 -c 'ITI Duck'
               -md /home/duck -s /bin/bash duck
```

\swarrow will produce error

-u \rightarrow username

-g \rightarrow user group

-c \rightarrow comments

-md \rightarrow make directory \Rightarrow if no home directory

-s \rightarrow shell

the user will not be able
to enter using GUI

Commands used :-

* man 5 passwd

→ man 5 shadow → what is the shadow file

Files opened

cat /etc / shadow

cat /etc / group

cat /etc / passwd

Sudo more /etc / shadow