

* Agenda - Multi-User

* why Linux id multi-user?

- Cmd terminal → geometry terminal.
- * we have cmd for open user

ls -al & Jack

passwd Jack

* User created.

→ Confirm / Verify → # id for Jack
(Account created or not)

whoami

→ tell us user
* want to switch new a/c of user go to logout
first & again login with different user.

* If you want login multiple a/c in one go
So we have multi-user feature, without
log out we can switch to different user.

* For this we have shortcut available →

→ # Ctrl + Alt + f1 → Switch first terminal.
→ Switching console in Linux. (f1, f2, f3 - f6)

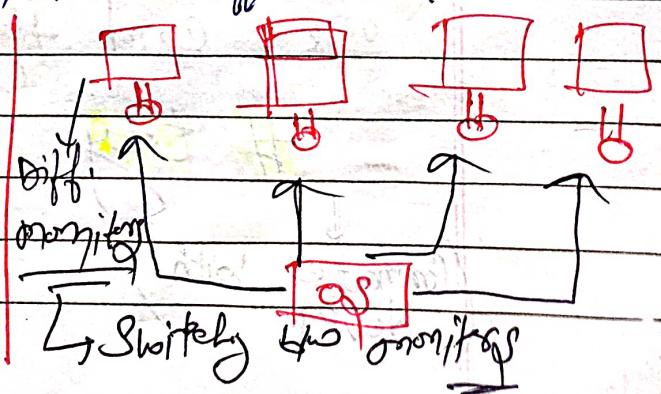
* In Red Hat Linux → Multiple Console/Terminal

* In windows we have one console.

* Without logout switched to different user

* Console → Virtual
terminal.

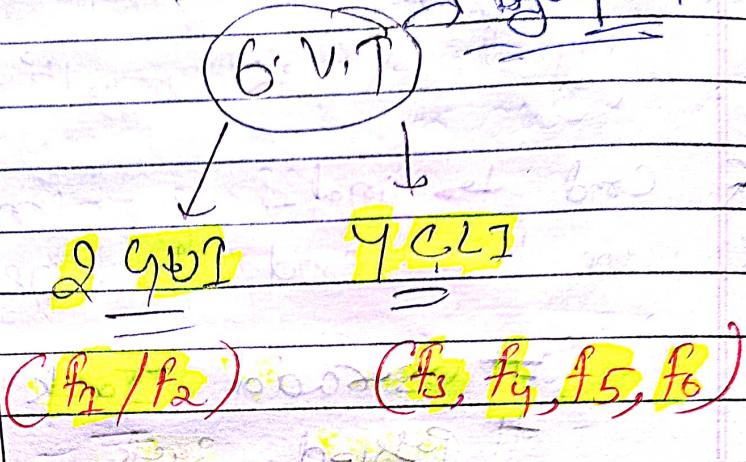
* Redhat-8 → 6 virtual
terminal



* Virtual Terminal → Redhat - 8
By default

* GUI
↳ Heavy

* CLI
↳ CLI
↳ (No GUI)



* We can create as much GUI with CLI.
It depends upon our need.

* Convert CLI (Console) into GUI screen.
By showing their optional GUI program.

StartX

(Initially they say that CUI
program into GUI by showing
the GUI program.)

* As much we get GUI

* Behind the console they also have one
Console like by switching terminals
(Ctrl + Alt + F₂ / F₃) → Optionally also have
one console by switching virtual terminal.

TTY (tty console)

↓
(Connected with)
device

Know how to connect device to it

chvt 6

(take you to the terminal)

- * Without using shortcut use this cmd =

* Redhat 8 →

6 VT

GUI-2

4-CDI

#8atty

exit

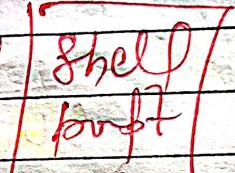
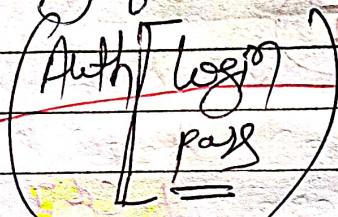
logout

(for logout)

- * If you want to run any program you need console screen that prompt that prompt screen take your cmd and go to intshell & run that internal program.
- * That may be program process → The shell will take your cmd & execute it intshell cmd prompt / →
- * Shell prompt is the program running behind the scene screen & take your cmd & run it.
- * Shell Concept name → But different products available → cshell, fish shell, bash shell
- * **Bash Shell** one of the famous, in RHEL-8 use usl bash shell.
- * If any hacker wants to access your system has connty → authenticate → login & try always to break the password.

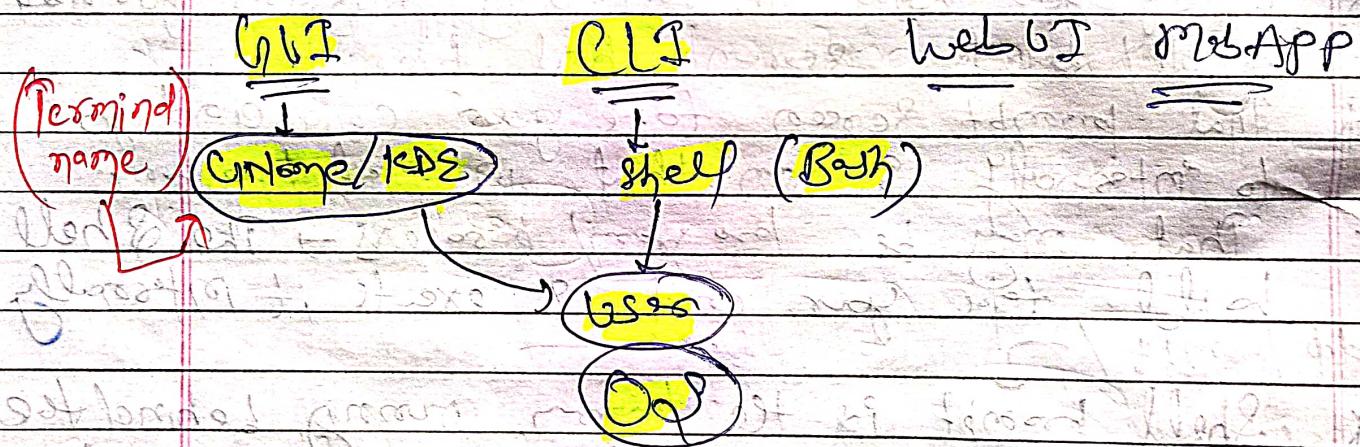
* After getting the payload they got the shell.

* May run security build for auth first
less security for shell.



program we to own the program.

* ways to interact with QF



* Windows → Powershell

* shells security language like
QF live interpreter python.

n=5

echo x

echo \$x

5

→ These are variables he has
created but he has some
internal variables to system.

- * Pre-created variables → **echo \$USER**
 # whoami | **in user** → **root**
 (root)
- # echo **PSHLL**
 (bin) / both
- * Now, we can change the color of blue text
 # tput setaf 3 } 8→Color
 ↓ {
 (Putting something up
 from) (attribute foreground)
 # tput setaf 0 (0→7) Color
- * for background Color we have ways
 # tput setab 3
 ↓
 (Setting up
 attribute background)
- * # root → get back by default value.
- * Create file without cmd →
 # cat > k2.txt (remove old data
 put new data)
 ↓ (very definitive)
- * # cat >> k2.txt (Add without overwriting
 without cmd create file → data)
- # > k2.txt
 # cat t.txt cat.txt
 (Read/concatenat multiple files)