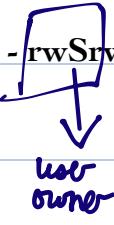


I. QUIZ

II. First Half

cl'd u pls explain the diff btwn -rwSrwxrw and rwxrwsrw

1. shutdown -r, halt, reboot



2. SUID, SGID, Sticky Session (Was requested by learners in the last session)

3. find, locate

4. screen, tmux

III. PDF Based Hands-On session 1

IV. Second Half

1. Background Processing Commands

2. Process Management Commands

3. System Monitoring Commands

4. Crontab Commands

You run `sort < input.txt > sorted.txt 2> errors.log`. What goes into errors.log?

sorted content
of input.txt

2> errors.log

s/foo/bar/g

search for

replace
with

globally

tar - cvzf
↓
filename

Masks → Filter

file.txt

setfacl -m u:bot:rw file.txt

11T → chmod - Mask cutoff

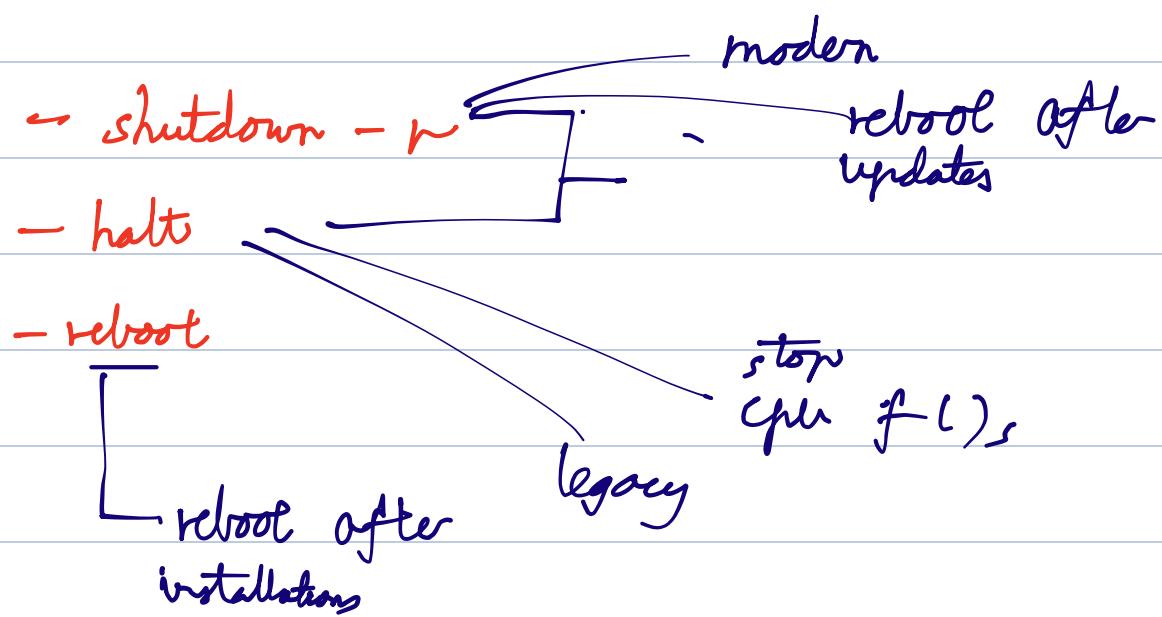
setfacl - Spost cutoff

mask] - <60 do NOT allowed

rwx → 7

mask → 6

On power commands



SUID & SGID - - -

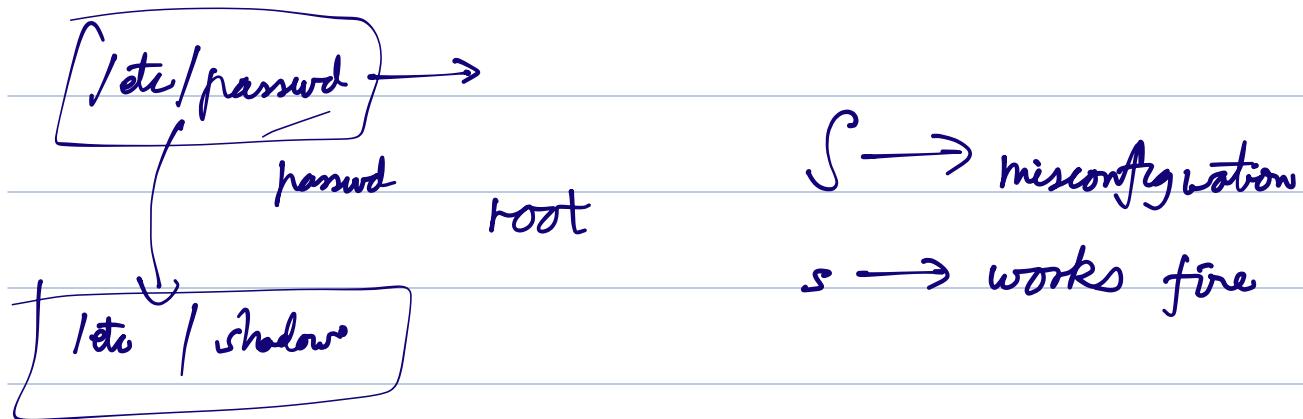
CONTROLLED PRIVILEGE ESCALATION

PRIVILEGE DELEGATION

TEMPORARY ELEVATION

file.txt ↗ 10 bits ↗ user group
others

sudo



STICKY BIT — don't let anybody delete anyone else's file in a shared directory

/tmp — chmod +t /tmp

/opt —

/data

/devops

chown → define owner user & owner group

chmod → Define perm on user, group & others

suid, sgid → elevated privilege for execution

sticky bit → separation of delete rights

sudo/root → you can do anything!!!

ACLs → granular rwx privileges

find & locate

find → scan through folders

FINDING ALL .log files in /var/log directory

- find /var/log -name "*log"

FIND FILES BIGGER THAN 10MB

- find /var/log -size +10M PREFERRED

FOR NEW FILES

locate →

locate.db

Faster

locate *.png

locate *.log

locate nginx

old

new

SCREEN & TMUX

OBJ: KEEP LONG RUNNING PROCESSES ALIVE

SCREEN CMDS

| Task | Command |
|----------------------|--------------------------|
| Start a screen | screen -S <name> |
| Detach from session | Ctrl + A then D |
| Reattach by name | screen -r <name> |
| List sessions | screen -ls |
| Kill session by name | screen -S <name> -X quit |

TMUX CMDS

tmux new -s devops

Detach:

Ctrl + B then D

Reattach:

tmux attach -t devops

List sessions:

tmux ls

Kill a session:

tmux kill-session -t devops

| Action | Key Combo |
|---------------------------|--------------------------|
| Split window horizontally | Ctrl + B then " |
| Split window vertically | Ctrl + B then % |
| Switch panes | Ctrl + B then Arrow Keys |
| New window (tab) | Ctrl + B then C |
| List windows | Ctrl + B then W |
| Rename window | Ctrl + B then , |

sudo su - bob ./script.sh

sudo su - bob ./script.sh ✓

ubuntu → root → bob
[]

