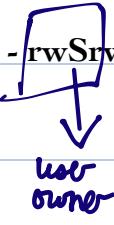


# I. QUIZ

## 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

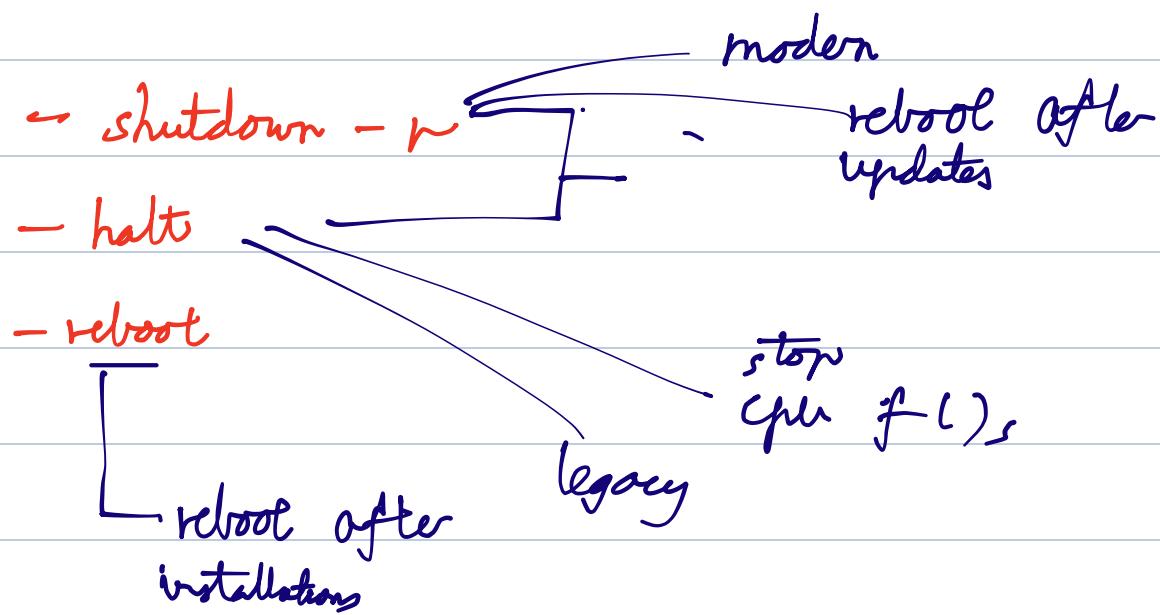
setfacl - Spost cutoff

mask ] - <60 do NOT allowed

rwx → 7

mask → 6

## On power commands



SUID & SGID - - -

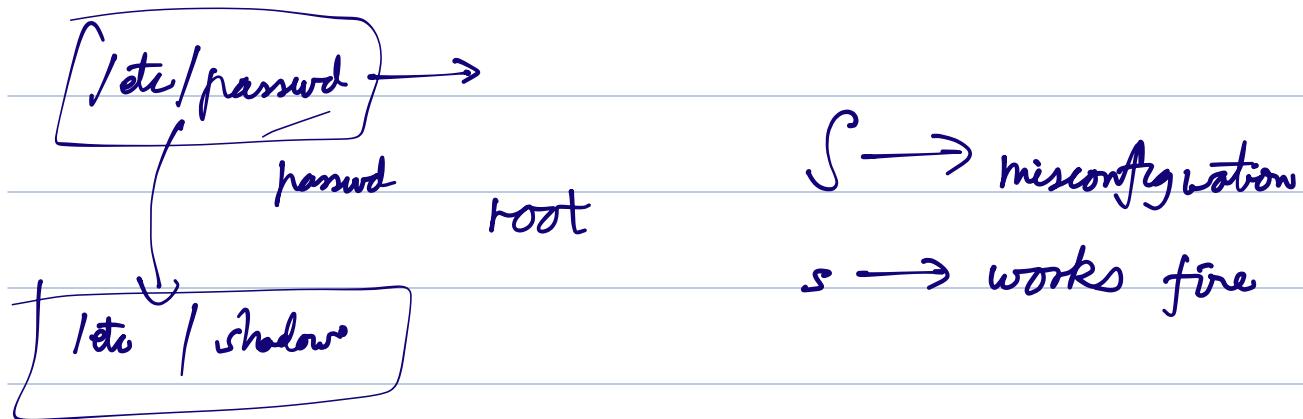
CONTROLLED PRIVILEGE ESCALATION

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  
[ ]

