SUDO

Sudo (super user do)sudo runs a command as root, whereas **su** makes you root user.

sudo - Allows a permitted user to execute a command as a super user as specified in the SUDOER's file.

SUDO runs a single command with root privilege. SUDO it doesn't switch to the root user or require a separate root user password.

File - /etc/sudoers

cat /var/log/secure (log file)

To edit the file – visudo

Syntax for individual user

- 1. User HOST=RunAs NOPASSWD:COMMAND
 - a. kevin ALL =(ALL) ALL
 - b. Bob ALL =(ALL) ALL
- 2. User HOST =RunAs NOPASSWD: Path/of/cmds, PASSWD: /path/of/cmds
 - a. kevin ALL= (ALL) NOPASSWD: /usr/sbin/useradd,/usr/sbin/userdel
 - b. kevin ALL=(ALL) PASSWD: /usr/bin/systemctl
 - c. kevin ALL=(ALL) NOPASSWD:/usr/bin/systemctl restart crond.service,PASSWD:/usr/bin/systemctl status crond.service
 - d. Dravid ALL=(ALL) !/bin/su !/bin/bash !/reboot
- 3. User HOST=RunAs(user) NOPASSWD:COMMAND
 - a. Bob ALL=(ALL) ALL
 - b. kevin ALL=(Bob) ALL

Syntax for individual group

- 1. %group HOST=RunAs NOPASSWD:COMMAND
 - a. %admin ALL =(ALL) ALL
- 2. Add the user to already existing group wheel
 - a. usermod -aG wheel user1

Aliases in sudoers file

- User_Alias
- Host Alias
- Cmnd_Alias

Syntax for User_Alias:

- 1. ALIAS_VARIABLE HOST=RunAs NOPASSWD:COMMAND
 - a. Create a User alias with ALIAS_VARIABLE
 - User Alias ADMINS = kevin,dravid,Sourav
 - ADMINS ALL = (ALL) ALL

Syntax for CMD_Alias:

- 1. USER HOST = (RunAs) CMNDALIAS VARIABLE
 - a. Create a User alias with CMNDALIAS_VARIABLE
 - Cmnd_Alias DELEGATING = /usr/sbin/visudo, /bin/chown, /bin/chmod, /bin/chgrp
 - Cmnd Alias ALLOW CMD = /usr/sbin/fdisk ,/usr/sbin/useradd
 - Cmnd Alias DENY CMD=!/bin/su,!/usr/sbin/reboot,!/usr/bin/passwd
 - ADMINS ALL=(ALL) ALLOW CMD,DENY CMD
 - ADMINS ALL=(ALL) NOPASSWD: PROCESSES , DELEGATING
 - User1 ALL=(ALL) NOPASSWD: ALLOW_CMD ,DELEGATING
 - User1 ALL=(ADMINS) NOPASSWD: DENY CMD, DELEGATING

Syntax for HOST_Alias

- 1. Host_Alias MAILSERVERS = smtp, smtp2
 - a. User1 MAILSERVERS = (ALL) ALL

Change Your Interactive Shell

a. sudo -i

List User Privileges

- a. sudo -l (OR) sudo --list
- b. sudo -U username -l