## \* Common Administrative Task in Linux!

- (i) Sinstalling and Configure Linux System: A Linux Administrator's main responsibility is to install and set-up Linux system and servus:for Configuring Linux System first Step is to Download a Linux OS and create a bootable CD/DVD or USB.
  Then Boot that files in system and install it.
- (ii) perform System maintainance! It is the suppossibility of Admistrator to perform System maintainance time to time by Doing Disk De tragmentation, seriewing error logs etc.
- (iii) Creating System Rackup: Administrator also should take System backup by weekly or Daily to secous the system after any Coash.
- (iv) monitor system performance! Administrator should monitor System performance to prevent sould and crashes.
- (V) provide technical Support and Guidance:

- \* Administrative files in Linux! There are four main user ! Administrative files.
  - (1) /etc/paumed: It keeps the un account and paumord information. also holds majority of information about accounts.
- (i) /etc/shadow: This file holds the encrypted panword of Corresponding account.
- dii) /etc/group! This file contain the group iformation for each account.
- (iv) /etc/gshadow: This file Contain Secure group account Hormatton.
- \* Role of a System Administrator: Roles of a System Administrator
  - ane! -
  - -> Adding or remowing was in a cinux.
  - -> creating a Group.
  - -> modify a Group.
  - -> perete a Group.
  - -> Creating, modifying and Deleting an Account.

A superuser assumed As system Administrator.

The first way to become superuses is to login as snoot directly. The scond way is to execute command su while

you logged in to another user Account.

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(i) Adding a user: - As a Linux Administrator it is essential to know how to add user or and added user or

most of flu Command requires root access for that we have to install sudo before the command or we have to login as shoot wer in system.

-> Command to add user: -

\$ Sudo useradd -m kname of the users

eg. \$ Sudo useradd -m isshad

Y-m is used to create home

directory.

After adding the even we have to set pauword for that even to Log in:

-> command to set pauword:

\$ sudo pauwd Zurename>
e.g \$ sudo pauwd irrhad > This Command for New pauword.

pauword Save in /etc/shadow file

-> Command to view ID of the wes:-

e.g. \$ sudo id -4 irrhad

output: 1001 > wer ID of wer irrhad.

- (ii) modify an Account! The the usermod command en ci/
  you to make change to an Existing
  Account like changing usuname, changing home directory
   changing usu id et.c.
  - Suremod to changes usuname!\$ usemod < usename> < Nw user ham>
    c.g. \$ usemod isshad isshad!
  - -> Command to change Home directory of usu:\$ sudo usermod -d < old home directory> < New Home directory>
    e.g. \$ sudo usermod -d /home/manay irshad
- (iii) Deleting An Account: -

Command! -

\$ Unendel - ~ < Menhame / Accountingmes

This Command will delete the Account hame & irrhad.

(iv) Creating a Group! - In Linux, A Group is q Collection of wers.

Each group in Linux identified by GID (Group identification Number).

- -> Thformation of groups stored in letc/group file.
- -> Hashed password of groups stored in /etc/gshadow file.

\$ groupadd [-g GID [-o]] [-r] [-f] groupname.

for creating aroup with default value use command:

& group add Karoup nams

e.g & groupadd Irahad + This command will create Groups
hamed Irahad.

- (v) modify a Croop! To modify any Group we use group mod Command.
- → Command to Change the name of Croop:

  \$ sudo group mod -n voldnames voldnames

  e.g. \$ sudo group mod -n Trihad Trihad1

  → To Chang hroup GID we use option -g

  \$ group mod -g 595 Trihad1
- (vi) <u>Deleting</u> a <u>proup!</u>. To delete a group we have to u.

& groupdel Imhad1

\* File penmission and ownership: Linux is a clone of UNIX, the multi

-user operating system which can be accounted by many

for security Linux divid authorization into 2 level.

- ci) Ownership ci) permission
- -> Ownesship in Linux fles: Every file and directory on Linux Assign 3 types of owner:
  - creates the file.
  - cii) Crroup: A chroup contain multiple wers. All wer belonging to the group have same Access permission to the file.
  - (iii) Other: Ay other uses who how access to a file.

    This person neither creates the file Nor belongs to any hoosp.
- -> permission in Linux fles: permission Set the use behaviour what they can do with file.

  There are 3 permission in Linux.
  - (i) Read: Mis penmission gives g you authority to open and read files.
  - (ii) write: write permission gives you authority to modify the Content of file.
  - (iii) Execute: In Linux you can't run a program
    Unden the Execute permission is set.

changing permission and ownership of file: To change the directory or file permission we use chood command. chmod -> Stands for change directory. There are two moder to change the personnion: (i) Absolute mode dis Symbolic mode. 777 (Anyone can read, write, execute) -> To Check the correct file permission we use \$ 10-1 Sample ontbot: -2m-2m-2- 7 permi-srious = > Sets the permission and oversides the permission set earlier: of by other and all is La > all

punimian of file;

Thought the punimian of file;

Changing the punimian of file;

Schmod 0=rwx sample > sets punimian for other users to spead, write and execute, & Chmod gtx Sample > Add Execute permission

Scanned with CamScanner

to use group.

for vin sample.

& chood u-r sample + Removing read pumilion

- -> Changing ownership of file: To change the ownership of file we use Chown.
  - >TO Check correct ownership of file the we us;
  - > To change ownership of a file we use!.

    \$ sudo Chowh hadoo Sample. +x1

    It of uses.

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- Q. Dircus various administrative tasks of UNIX system Administrator. page NO >1
- Q. Explain various Command for one management in Linux, page +3
  - Q. Roles and Responsibility of superuses ? How to become superuses. page +2