Class 7

User and group

User = who use the computer is called user

Window

1. Administrator = full power
2. Standard = less power
3. Guest = no power
   Linux
   3 types of user
   1. Privilege user = full power = same as administrator = root
   2. Non-privilege = less power
   3. System user = specific work (ftp server = ftp user)

Kernel not understand the name .It give UID = user Identification

1. Root = RHEL 5,6,7,8,9 = uid = 0
2. Non-privilege =RHEL 5,6,7 = uid 500 or above , RHEL 8,9 = uid 1000 or above
3. System user = RHEL 5,6,7 = uid = 1-499 , RHEL 8,9 - uid 1-999

Make a user
Useradd somesh or adduser somesh
Window = make the user without password
Linux = we can't

Give the password
Passwd somesh

Make user without password
Passwd –d somesh (-d = delete)

Entry of user in whole OS

4 file , 2 folder
File
/etc/passwd
/etc/group
/etc/shadow
/etc/gshadow

2 folders
/home
/var/spool/mail

Delete the user
Userdel somesh = delete the user but keep the data
 Userdel -r sashi (-r = recursive) = delete the user with data

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/etc/passwd

india:x:1001:1001::/home/india:/bin/bash
india = name
:x: = encrypted password (/etc/shadow)

1001 = uid

:1001 =GID (group identification)

:: = give the comment

/home/india = home directory

:/bin/bash = shell

Shell = secure handle edit logic level = convert into high to low language and low to high .

User modification   (usermod)

1. Change the login name
    India = 100 policies
    Test

Usermod   -l newname   oldname   (-l = login name)

2. Change the uid
    Usermod -u 2000   name   (-u -uid)

3. Give the comment
    Usermod -c "IT admin" name   (-c = comment)

4. Change the home directory
    Mkdir /xyz
    Usermod -d   /xyz   name   (-d = directory)

5. Change the shell
    Usermod -s /sbin/nologin   name

    Ex = /bin/bash   , /sbin/nologin

6. Change the GID

    Exit group = IT - 2000
    Usermod -g IT   username
    Or
    Usermod -g 2000   username

Class 8

Group = collection of user

2 type of group

1. Primary group   = it automatically make with user (amit- user   , amit - primary group)
2. Secondary group   = we have to make

Group = /etc/group

Make a group

Groupadd   HR

HR:x:1002:

HR = group name

:x: = encrypted password (/etc/gshadow)

1002: =GID (group identification)

Delete the group

Groupdel HR

Change entry

Groupmod = group modification

Change the name

Groupmod –n new old   (-n =name)

Change GID

Groupmod -g   3000   name   (-g = gid)

User = amit , chandan , shobhit

Group = sales

Make member of group

Usermod   -G   sales amit

To see

Id amit   or   /etc/group

make multiple group member

user = amit

group = IT , HR , sales

usermod -G   IT,HR,sales   amit

or

gpasswd -a amit IT (-a =add)

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user   = aa ,bb ,cc ,dd

group = IT

gpasswd -M aa,bb,cc,dd   IT   (-M = member)

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remove from membership

gpasswd -d aa IT (-d =delete)

/etc/shadow   = user password info

amit:6/FWCSlglGGDMJEQ1$NU4eFjZChcN3qUkvw8GfuLNimSx.LQfzCYWp1V8xciUHkfOAjGex9p5Hg0SSMPOwH7K DVLrTWMdrs5vaIoRSG1:19261:0:99999:7:::

amit   = user name

:6/FWCSlglGGDMJEQ1$NU4eFjZChcN3qUkvw8GfuLNimSx.LQfzCYWp1V8xciUHkfOAjGex9p5Hg0SSMPOwH7KDVLr TWMdrs5vaIoRSG1: =   password in encrypted form

19261 = unix 1/1/1970 = no of days from 1/1/1970

:0 = minimum password age (amit - abc today . 5 days)

:99999 = maximum password age (30 days)

:7::: = warning

See the entry in easy form

Chage -l amit

Change the entry

Minimum password age = 5 days

Maximum age = 30 days

Warning days = 2 days

Chage amit

Lock the account

Usermod -L amit

Unlock the account

Usermod -U amit

Set unencrypted password

Usermod -p india amit

/etc/gshadow = group password

Give the password

Gpasswd amit

Folder

/Home

1. .bash_logout = save the exit script
2. .bash_profile = it save login script
3. .bashrc =it use to make command alias

Mkdir = mk

Vim .bashrc

Alias mk ='mkdir'

Alias t='touch'

:wq

Bash

/etc/skel   = it redirect r=the data from skel folder to user home .

To see the structure of user

/etc/default/useradd

And   /etc/login.defs

Vim /etc/defaults/useradd

GROUP=100 = a user can make member 100 group

HOME=/home   = home directory

INACTIVE=-1   = password expire

EXPIRE=   2022-12-31   = account expire

SHELL=/bin/bash   =shell

SKEL=/etc/skel   = skelton folder

CREATE_MAIL_SPOOL=yes = mail folder (/var/spool/mail)

Vim /etc/login.defs

*** default we can make 59000 user

User change the password after first login

Passwd --expire   username

Or

Chage –d   0   username

See who is and was login successfully

Last

See who login unsuccessfully

Lastb

Set expiry   date of user

Usermod   -e 2022-12-31   username

Imp   command

Whoami   = current user name

Who = see all currently login user

w   = see the work of all user

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make a user

name = rhel

uid   = 3000

group   = sales

gid   =2000

comment   = IT admin

shell   = /sbin/nologin

home = /xyz

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mkdir /xyz

groupadd sales

groupmod -g   2000 sales

useradd -u 3000 -g 2000 -G sales -c "IT admin" -d /xyz   -s /sbin/nologin   rhel