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

/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 )

1. Change the uid

Usermod -u 2000 name (-u -uid)

1. Give the comment

Usermod -c “IT admin” name (-c = comment)

1. Change the home directory

Mkdir /xyz

Usermod -d /xyz name (-d = directory)

1. Change the shell

Usermod -s /sbin/nologin name

Ex = /bin/bash , /sbin/nologin

1. 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)

user = aa ,bb ,cc ,dd

group = IT

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

remove from membership

gpasswd -d aa IT (-d =delete)

/etc/shadow = user password info

amit:$6$/FWCSlglGGDMJEQ1$NU4eFjZChcN3qUkvw8GfuLNimSx.LQfzCYWp1V8xciUHkfOAjGex9p5Hg0SSMPOwH7KDVLrTWMdrs5vaIoRSG1:19261:0:99999:7:::

amit = user name

:$6$/FWCSlglGGDMJEQ1$NU4eFjZChcN3qUkvw8GfuLNimSx.LQfzCYWp1V8xciUHkfOAjGex9p5Hg0SSMPOwH7KDVLrTWMdrs5vaIoRSG1: = 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

make a user

name = rhel

uid = 3000

group = sales

gid =2000

comment = IT admin

shell = /sbin/nologin

home = /xyz

mkdir /xyz

groupadd sales

groupmod -g 2000 sales

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