﻿User & Group Management

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# gnome-session-quit

# useradd support => create user

# passwd support => set password on user

# su - <username> => switch user

# exit => logout

# groups <username> => check groups of the specified user

# id -u <username> => check uid of the specified user

# groupadd <groupname> => create group

User Properties

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1. Primary Group membership

2. Secondary Group membership

3. Home Directory

4. Shell

5. UID

Primary & Secondary Group Membership

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- each user has its primary group membership by default, we can change the primary group membership of user anytime.

- a user can be the primary member of only one group at a time.

- a user can be the secondary member of the multiple groups at a time.

Home Directory

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- by default, each user has its personal directory called as home directory

- root user home directory is -->> /root

- other user's home directories exists in /home by default

- we can change the home directory of a user anytime

- home directory keeps following files :

.bashrc

.bash\_profile

.bash\_logout

- all these files copied from /etc/skel

UID/GID

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- uid/gid is a number which is used by kernel to identify users & groups

- uid is a number assigned to each user, each user has its unique uid

- gid is a number assigned to each group, each group has its unique gid

- uid of root user is 0, gid of root group is 0

- 1-999 uid's & gid's are reserved for system users & system groups

- other user's & group's uid's & gid's will start from 1000

Shell

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- a shell is a command-line interpreter or shell that provides a command line user interface.

- a shell is a special user program which provides an interface to user to use operating system services.

- shells in RHEL8.5 are -->> sh, bash , both these shells are stored in /bin

Users & Groups related files

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/etc/passwd - keeps the information of all users

/etc/group - keeps the information of all groups

/etc/shadow - keeps the passwords of all users in encrypted form.

Creating user using non-default properties

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useradd options :

-g => primary group membership

-G => secondary group membership

-d => home directory

-s => shell

-u => uid

# useradd -g education yash

# useradd -G education aviral

# useradd -d /abhishek abhi

# useradd -s /bin/sh arvind

# useradd -u 1084 vivek

# useradd -g education -G cybrom -d /working -s /bin/sh -u 1074 work

Modifying user properties

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usermod options :

-g => primary group membership

-G => secondary group membership

-d => home directory

-s => shell

-u => uid

-c => comment

-L => lock user's password

-U => unlock user's password

-l => login name

# usermod -g education support

# usermod -G cybrom support

# usermod -a -G test support

# usermod -a -G cybrom,vivek,education test

# usermod -m -d /tech support

# usermod -s /bin/sh support

# usermod -u 1015 support

# usermod -c "sales department" support

# usermod -L support

# usermod -U support

# usermod -l tech support

Delete User

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# userdel -r tech => delete user with its home directory

# userdel u1 => delete only user

# groupdel <groupname> => delete group