User administration

Basic commands

- su - root /sudo -i → switch user
- useradd/adduser → to add user
- passwd ram → to set password
- useradd -d /ram ram → it change the home dir of user
- logout /extit → it will prompt you to previous terminal
- useradd -u 1010 sham → to change UID
- groups ram → it display a number of groups that member belongs to
- id ram → display detail info about user
- gpasswd -A user2 insta → to make user a admin of group
- gpasswd -M user1,user2 insta → to add multiple user to group
- gpasswd -d user2 insta → to remove user from group
- usermod -l <new-name> <oldename> → usermod -l shamal sham
- usermod -d /home/shamal -m shamal → rename the existing directory
- usermod -g <groupname> <username> → usermod -g admin user4 → it will change the primary group of user
- groupmod -g 2020 insta → it chnage the GID of existing group
- groupmod -n <new-name> <olde-name> → groupmod -n instagram insta → it change the group name
- groupdel instagram → to delete the group
- userdel sham → it deletes the user but not home directory
- userdel -r sham → it deletes user as well home directory

/etc/passwd

atharv: x :1002 :1002 : :/home/atharv :/bin/bash

1. username
2. encrypted password link
3. UID → user ID
4. GUID → group ID
5. comment
6. home directory
7. default shell

Task

1. create user → user1 → useradd user1
2. set a password to user1 → passwd user1
3. switch to that user and create some files and folders → su - user1
4. switch back to root user → copy that file(user1 dir) → to ec2-user home directory→ cp /home/user1/*.txt /home/ec2-user/
5. add user → user2 → create home directory at /user2 → useradd -d /user2 user2

Groups → give access to bunch of users

commands

- groupadd insta → add new group
- gpasswd insta → to set a password to group
- gpasswd -a <username> <groupname> → to add user to group

/etc/group, /etc/gshadow

/etc/gshadow

insta :! : :sham

1. groupname
2. encrypted password
3. admin
4. group memebers

/etc/group

insta :x :1014 :user1,user2

1. groupname
2. encrypted passowrd link
3. GID
4. members of group

Types of group

1. primary group → group that is created by system → it provides full access of the specific directory
2. secondary group → group that is created by users → it provides limited access to the directory

Task

1. create admin and ops group
2. add user → user4 user5 user6 user7
3. add user6, user7 to group → ops
4. add user4, user5 to group → admin
5. make user7 a admin of ops group
6. make user4 a admin of admin group

Task

1. create 5 users → dev1 to dev5

2. create 3 users → ops1 to ops3
3. create 2 groups → aws, linux
4. add dev1, dev3 to aws
5. make dev3 as a admin of aws
6. change groupname of aws to awscloud
7. add ops3 , ops2 to linux group
8. make ops3 admin to linux
9. change existing GID of linux group
10. add dev2 to linux
11. change the name of dev4 to developer4 as well as rename his home directory /home/dev → /home/developer
12. change the primary group of ops2 and make it linux
13. set password to ops2 and group linux
14. switch to ops2 and create some files
15. list out the ls output of ops2 and redirect it in ops2.txt file
16. create a directory → ops inside /home/ops3 add some files in ops directory
17. move entire directory to /home/dev1
18. change the UID of dev3 and redirect the changed output in dev3.txt
19. create 1 more group → cloud
20. add dev1, ops2, dev3 to cloud group