

## SHEET-9 –USER ACCOUNT MANAGEMENT -II

1. Create a user named raina with the following properties

- a. uid (-u)
- b. gid (-g)
- c. comment (-c)
- d. home directory(-d)
- e. shell (-s)

```
[root@vmware ~]# useradd -u 2005 -g 1003 -c 'root create a user called Tester' -d '/home/Tester' -s /bin/bash tester
```

2. set the password for user raina

```
[root@vmware ~]# passwd raina
Changing password for user raina.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@vmware ~]# |
```

3. check the status of password using – passwd –S username

```
[root@vmware ~]# passwd -S jaysimman
jaysimman PS 1969-12-31 0 99999 7 -1 (Password set, SHA512 crypt.)
[root@vmware ~]# |
```

4. check the userinfo values in etc/passwd.

```
jaysimman:x:1000:1000:Jaysimman:/home/jaysimman:/bin/bash
sachin:x:2002:1001:modify user:/home/sachin1:/bin/bash
dravid:x:2001:1002:modify user:/home/dravid1:/bin/bash
kevin:x:2000:1003:testing newuser:/home/testing:/bin/bash
Tester:x:2003:1003:root create a user called Tester:/home:/user/bin/bash
tester:x:2005:1003:root create a user called Tester:/home/Tester:/bin/bash
raina:x:2006:2006:./home/raina:/bin/bash
```

5. Create a new user dhoni without home directory (useradd –M Username)

```
[root@vmware ~]# useradd -M jai
[root@vmware ~]# cd /home/
[root@vmware home]# ls
dravid jaysimman raina sachin1 Tester testing
[root@vmware home]# |
```

6. Create another user virat with account expiry date (useradd –e ‘yyyy-mm-dd’ username)

```
[root@vmware home]# useradd -e '2025-10-20' virat
[root@vmware home]# |
```

7. Check the user virat info using chage -l username

```
[root@vmware home]# useradd -e '2025-10-20' virat
[root@vmware home]# chage -l virat
Last password change           : Oct 09, 2024
Password expires                : never
Password inactive               : never
Account expires                 : Oct 20, 2025
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
[root@vmware home]# |
```

8. Change the user dhoni properties using usermod cmd.

- a. Uid
- b. Gid
- c. Comment
- d. Home directory
- e. Account expiry date
- f. Username as mahendra – usermod -l newname oldname

```
usermod: user 'tai' does not exist
[root@vmware home]# usermod -u 2009 -g 1003 -c 'modify user' -e '2024-10-30' -d /home/tai/ -l tai jai
[root@vmware home]# |
```

9. Check all these values in /etc/passwd and chage -l username cmd

```
[root@vmware home]# usermod -l tariv virat
[root@vmware home]# |
```

10. Lock the password for user raina using passwd -l username and check its status.

```
[root@vmware home]# passwd -l jaysimman
Locking password for user jaysimman.
passwd: Success
```

11. Login with user raina from user other than root and observe.

```
[jaysimman@vmware home]$ su raina
Password:
su: Authentication failure
[jaysimman@vmware home]$ |
```

12. Now unlock password for user raina using passwd -u username and check its status.

```
[root@vmware /]# passwd -u raina
Unlocking password for user raina.
passwd: Success
[root@vmware /]# |
```

13. Login with user raina from user other than root and observe

```
[root@vmware /]# su jaysimman
[jaysimman@vmware /]$ su rahina
su: user rahina does not exist or the user entry does not contain all the required fields
[jaysimman@vmware /]$ su raina
Password:
[raina@vmware /]$ |
```

14. Now lock the user account of raina using usermod -L username and check.

```
[root@vmware /]# usermod -L raina
[root@vmware /]# |
```

15. Unlock the user account of raina using usermod -U username and check.

```
[root@vmware /]# usermod -U raina
[root@vmware /]# |
```

16. Using chage cmd ,perform the following

a. Chage -l username – to check the properties of password (account aging info).

```
[root@vmware ~]# chage -l jai
chage: user 'jai' does not exist in /etc/passwd
[root@vmware ~]# chage -l tai
Last password change           : Oct 09, 2024
Password expires                : never
Password inactive               : never
Account expires                 : Oct 30, 2024
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
[root@vmware ~]#
```

b. It can be found in /etc/shadow file also.

```
tai:!!:20005:0:99999:7::20026:
```

c. Min days for password reset -m.

```
[root@vmware ~]# chage -m 10 raina
[root@vmware ~]# |
```

d. Max days for password reset -M.

```
[root@vmware ~]# chage -M 155 raina
[root@vmware ~]# |
```

e. Warning before password change -W.

```
[root@vmware ~]# chage -W 3 raina
[root@vmware ~]# |
```

f. Inactive days -after which the account will be disabled -I.

```
[root@vmware ~]# chage -I 3 raina
[root@vmware ~]# |
```

g. Last password change date -d.

```
[root@vmware ~]# chage -d 15 raina
[root@vmware ~]# |
```

h. Account expiry date -E

```
[root@vmware ~]# chage -E 2025-12-12 raina
[root@vmware ~]# |
```

i. Check whether all these properties are updated .(chage -l username).

```
[root@vmware ~]# chage -l raina
Last password change           : Jan 16, 1970
Password expires                : Jun 20, 1970
Password inactive               : Jun 23, 1970
Account expires                 : Dec 12, 2025
Minimum number of days between password change : 10
Maximum number of days between password change : 155
Number of days of warning before password expires : 3
[root@vmware ~]# |
```

17. Create another user kohli and set kohli's password

a. Now change last password change date as 0 for kohli(chage -d 0 username)

```
[root@vmware ~]# chage -d 0 kozhi
[root@vmware ~]# |
```

b. Login into kohli and check .

```
[root@vmware ~]# chage -d 0 kozhi
[root@vmware ~]# su kozhi
[kozhi@vmware root]$ ls
ls: cannot open directory '.': Permission denied
[kozhi@vmware root]$ cd ~
[kozhi@vmware ~]$ ls
videos
[kozhi@vmware ~]$ |
```

18. Use groupmod cmd to perform the following for an existing user raina and group sports.

a. Add user raina to group sports using usermod -aG grpname username

```
[root@vmware kozhi]# usermod -aG sports raina
[root@vmware kozhi]# |
```

b. Add user mahendra to group sports (primary group) – usermod -g gid/gname username

```
[root@vmware kozhi]# usermod -g sports mahindra
[root@vmware kozhi]# |
```

i. Use id username cmd to check the groups of user.

```
[root@vmware kozhi]# id mahindra
uid=2011(mahindra) gid=1003(sports) groups=1003(sports)
[root@vmware kozhi]# |
```

c. Check the details in etc/group file.

```
[root@vmware kozhi]# cat /etc/group | tail -2
kozhi:x:2010:
mahindra:x:2011:
[root@vmware kozhi]# |
```

d. Use gpasswd -a user group to add user kohli to sports

```
[root@vmware kozhi]# gpasswd -a kozhi sports
Adding user kozhi to group sports
[root@vmware kozhi]# |
```

e. Check the details in etc/group file

```
sports:x:1003:raina,kozhi
```

f. Change the groupid of sports to 4000 – groupmod -g GID groupname

```
[root@vmware kozhi]# groupmod -g 8520 sports
[root@vmware kozhi]# |
```

g. Change the groupid of user kohli to 4002 – groupname -g GID username

```
[root@vmware kozhi]# groupmod -g 4002 kozhi
[root@vmware kozhi]# |
```

h. Change the groupname from sports to sportpersons – groupmod -n newgrp oldgrp.

```
[root@vmware kozhi]# groupmod -n sportsperson sports
[root@vmware kozhi]# |
```

i. Check the details in etc/group file.

```
[root@vmware kozhi]# cat /etc/group | tail -f
tcpdump:x:72:
jaysimman:x:1000:
sachin:x:1001:
dravid:x:1002:
raina:x:2006:
jai:x:2007:
virat:x:2008:
kozhi:x:4002:
mahindra:x:2011:
sportsperson:x:8520:raina,kozhi
```

19. Check the default values using useradd -D.

```
[root@vmware ~]# useradd -D
GROUP=100
HOME=/home
INACTIVE=-1
EXPIRE=
SHELL=/bin/bash
SKEL=/etc/skel
CREATE_MAIL_SPOOL=yes
```

20. Check the default values using cat /etc/default/useradd.

```
[root@vmware ~]# cat /etc/default/useradd
# useradd defaults file
GROUP=100
HOME=/home
INACTIVE=-1
EXPIRE=
SHELL=/bin/bash
SKEL=/etc/skel
CREATE_MAIL_SPOOL=yes
```

21. Run ls -l on /home and /var/spool/mail and observe the user directories.

```
[root@vmware ~]# ls -l /home/
total 4
drwx-----. 4      1002 dravid      92 Oct  7 12:01 dravid
drwx-----. 16 jaysimman jaysimman 4096 Oct  8 16:45 jaysimman
drwx-----. 4 raina      raina      113 Oct  9 20:37 raina
drwx-----. 3 sachin      sachin      78 Oct  7 11:46 sachin1
drwx-----. 4 tester      sports      92 Oct  9 11:15 Tester
drwx-----. 4 kevin      sports      92 Oct  7 12:09 testing
drwx-----. 4 tariv      virat      92 Oct  9 19:24 virat
[root@vmware ~]# ls -l /var/spool/mail/
total 0
-rw-rw----. 1 dravid      mail 0 Oct  7 12:01 dravid
-rw-rw----. 1 jaysimman    mail 0 Oct  4 13:33 jaysimman
-rw-rw----. 1 kevin      mail 0 Oct  7 12:09 kevin
-rw-rw----. 1 raina      mail 0 Oct  9 11:34 raina
-rw-rw----. 1 sachin      mail 0 Oct  7 11:46 sachin
-rw-rw----. 1 tai        mail 0 Oct  9 19:21 tai
-rw-rw----. 1 tariv      mail 0 Oct  9 19:24 tariv
-rw-rw----. 1 tester      mail 0 Oct  9 11:15 tester
-rw-rw----. 1 Tester      mail 0 Oct  9 11:13 Tester
```

22. Delete a user and chk the mail dircectory.



```

Last login: Wed Oct  9 22:12:02 2024
[root@vmware ~]# userdel -r tull
[root@vmware ~]# ls -l /var/spool/mail/
total 0
-rw-rw----. 1 dravid      mail 0 Oct  7 12:01 dravid
-rw-rw----. 1 jaysimman  mail 0 Oct  4 13:33 jaysimman
-rw-rw----. 1 kevin      mail 0 Oct  7 12:09 kevin
-rw-rw----. 1 raina      mail 0 Oct  9 11:34 raina
-rw-rw----. 1 sachin     mail 0 Oct  7 11:46 sachin
-rw-rw----. 1 tai        mail 0 Oct  9 19:21 tai
-rw-rw----. 1 tariv      mail 0 Oct  9 19:24 tariv
-rw-rw----. 1 tester     mail 0 Oct  9 11:15 tester
-rw-rw----. 1 Tester     mail 0 Oct  9 11:13 Tester

```

23. Run `ls -la` on `/etc/skel` directory and observe the default directories and files .(when creating a new user all. these will be created in `/home/newuser`).

```

[root@vmware ~]# ls -l /etc/skel
ls: cannot access '/etc/skel': No such file or directory
[root@vmware ~]# ls -l /etc/skel
total 0
drwxr-xr-x. 2 root root 6 Oct  7 12:01 videos
[root@vmware ~]# useradd tull
[root@vmware ~]# passwd tull
Changing password for user tull.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@vmware ~]# su tull
[tull@vmware root]$ ls
ls: cannot open directory '.': Permission denied
[tull@vmware root]$ ls
ls: cannot open directory '.': Permission denied
[tull@vmware root]$ cd ~
[tull@vmware ~]$ ls
videos
[tull@vmware ~]$ |

```

24. Use cmds `id username`, `id -un username`, `id -gn username`



```
[root@vmware ~]# id raina
uid=2006(raina) gid=2006(raina) groups=2006(raina)
[root@vmware ~]# id -un raina
raina
[root@vmware ~]# id -gn raina
raina
[root@vmware ~]# |
```

25. Use `w`, `last` and `whoami` cmd and observe the result.

```
[root@vmware ~]# w
 22:07:11 up  1:58,  3 users,  load average: 0.03, 0.01, 0.00
USER      TTY      LOGIN@  IDLE   JCPU   PCPU   WHAT
jaysimma  seat0    19:15   0.00s  0.00s  0.01s  /usr/libexec/gdm-wayland-session --register-session gnome-session
jaysimma  tty2     19:15   2:56m  0.14s  0.13s  /usr/libexec/gnome-session-binary
root      pts/1    21:31   3.00s  0.15s  0.01s  w
[root@vmware ~]# last | tail -4
jaysimma seat0          login screen      Fri Oct  4 15:27 - down   (00:05)
reboot    system boot  5.14.0-511.el9.x  Fri Oct  4 15:14 - 15:32 (00:18)

wtmp begins Fri Oct  4 15:14:42 2024
[root@vmware ~]# whoami
root
[root@vmware ~]# |
```

26. Cat `/etc/login.defs` file and see the default values.

```
[root@vmware /]# cat /etc/login.defs
#
# Please note that the parameters in this configuration file control the
# behavior of the tools from the shadow-utils component. None of these
# tools uses the PAM mechanism, and the utilities that use PAM (such as the
# passwd command) should therefore be configured elsewhere. Refer to
# /etc/pam.d/system-auth for more information.
#
#
# Delay in seconds before being allowed another attempt after a login failure
# Note: When PAM is used, some modules may enforce a minimum delay (e.g.
#       pam_unix(8) enforces a 2s delay)
#
#FAIL_DELAY                3

# Currently FAILLOG_ENAB is not supported

#
# Enable display of unknown usernames when login(1) failures are recorded.
#
#LOG_UNKFAIL_ENAB          no

# Currently LOG_OK_LOGINS is not supported

# Currently LASTLOG_ENAB is not supported

#
# Limit the highest user ID number for which the lastlog entries should
# be updated.
#
# No LASTLOG_UID_MAX means that there is no user ID limit for writing
# lastlog entries.
#
#LASTLOG_UID_MAX

# Currently MAIL_CHECK_ENAB is not supported

# Currently OBSCURE_CHECKS_ENAB is not supported

# Currently PORTTIME_CHECKS_ENAB is not supported

# Currently QUOTAS_ENAB is not supported
```