Module 5: User Administration Assignment

1 – Add a new user called edureka with password edureka

[root@server1 Assignments]#

[root@server1 Assignments]# useradd -c "New user edureka" edureka

[root@server1 Assignments]#

[root@server1 Assignments]# tail /etc/passwd

gdm:x:42:42::/var/lib/gdm:/sbin/nologin

gnome-initial-setup:x:989:984::/run/gnome-initial-setup/:/sbin/nologin

avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin

postfix:x:89:89::/var/spool/postfix:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

tcpdump:x:72:72::/:/sbin/nologin

akmtir:x:1000:1000:akmtir:/home/akmtir:/bin/bash

user3:x:1010:1001::/home/user3:/bin/bash user5:x:1002:1003::/home/user5:/bin/bash

edureka:x:1011:1011:New user edureka:/home/edureka:/bin/bash

[root@server1 Assignments]#
[root@server1 Assignments]#
[root@server1 Assignments]#

[root@server1 Assignments]# tail /etc/shadow

gdm:!!:17278:::::

gnome-initial-setup:!!:17278::::::

avahi:!!:17278::::: postfix:!!:17278::::: sshd:!!:17278::::: tcpdump:!!:17278:::::

akmtir:

\$6\$OijuHj0U5UAy9kks\$X0fIlqD.G8yReVOhLIjPWYD4HqXV.4kNpet6.f4hHL47U02bLhPAzQn/UsSTEXfYE247pf7gSO7p/F/2ZIPmm1::0:99999:7:::

user3:\$6\$pOKaMUk6\$e8dFSjp3lpSq.frVxj3dx5crmP.8jHMfwLpKwfJpNXYdVIlDCmDpAW0lq468t Gs1JX2RHavspxBr5EbrJmy0G.:17292:0:90:3:5::

user5:\$6\$T/KxHDJ8\$BSsIcFwg9rdca/CX6gWFdDRYm9rZS2x7Is9YjNLLQnpMMmr.kAb87c1Sxz0s AzHe8c6lvpLs46rkU2nzq2aac1:17292:0:99999:7:::

edureka:!!:17293:0:99999:7:::
[root@server1 Assignments]#

[root@server1 Assignments]# passwd edureka

Changing password for user edureka.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@server1 Assignments]# tail /etc/shadow

gdm:!!:17278:::::

gnome-initial-setup:!!:17278::::::

avahi:!!:17278::::: postfix:!!:17278::::: sshd:!!:17278::::: tcpdump:!!:17278:::::

akmtir:

\$6\$OijuHj0U5UAy9kks\$X0fIlqD.G8yReVOhLIjPWYD4HqXV.4kNpet6.f4hHL47U02bLhPAzQn/UsSTEXfYE247pf7gSO7p/F/2ZIPmm1::0:99999:7:::

user3:\$6\$pOKaMUk6\$e8dFSjp3lpSq.frVxj3dx5crmP.8jHMfwLpKwfJpNXYdVIlDCmDpAW0lq468t Gs1JX2RHavspxBr5EbrJmy0G.:17292:0:90:3:5::

user5:\$6\$T/KxHDJ8\$BSsIcFwg9rdca/CX6gWFdDRYm9rZS2x7Is9YjNLLQnpMMmr.kAb87c1Sxz0s AzHe8c6lvpLs46rkU2nzq2aac1:17292:0:99999:7:::

edureka:

\$6\$AhWdi4e3\$XgkgqzGmQXeHykSgN7OygcxZlvpB9v5e9rFtNHXf.r8qxNqzS10WeNduAaRtHLcFl7Zvr9hDYA2qnGKtlP5zj0:17293:0:99999:7:::

[root@server1 Assignments]#
[root@server1 Assignments]#

[root@server1 Assignments]# chage -l edureka

Last password change : May 07, 2017

Password expires : never Password inactive : never

Account expires : never

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@server1 Assignments]# [root@server1 Assignments]# [root@server1 Assignments]# [root@server1 Assignments]#

[root@server1 Assignments]# groups edureka

edureka: edureka

[root@server1 Assignments]# id edureka

uid=1011(edureka) gid=1011(edureka) groups=1011(edureka)

[root@server1 Assignments]#

[root@server1 Assignments]# su - edureka

Last login: Sun May 7 04:35:00 CEST 2017 on pts/0

[edureka@server1 ~]\$ pwd

/home/edureka

[edureka@server1 ~]\$ ls -lah

total 36K

drwx----. 5 edureka edureka 4.0K May 7 04:34.

drwxr-xr-x. 7 root root 4.0K May 7 02:20 ..

-rw-----. 1 edureka edureka 39 May 7 04:35 .bash_history

-rw-r--r-. 1 edureka edureka 18 Aug 2 2016 .bash logout

-rw-r--r--. 1 edureka edureka 193 Aug 2 2016 .bash_profile -rw-r--r--. 1 edureka edureka 231 Aug 2 2016 .bashrc drwxrwxr-x. 3 edureka edureka 4.0K May 7 04:33 .cache drwxrwxr-x. 3 edureka edureka 4.0K May 7 04:33 .config drwxr-xr-x. 4 edureka edureka 4.0K Apr 22 21:40 .mozilla [edureka@server1 ~]\$

2 – Add a new user with /tmp/user as his home directory

[root@server1 Assignments]#

[root@server1 Assignments]# useradd -d /tmp/user newUser

useradd: cannot set SELinux context for home directory /tmp/user

[root@server1 Assignments]#

[root@server1 Assignments]# tail /etc/passwd

gnome-initial-setup:x:989:984::/run/gnome-initial-setup/:/sbin/nologin

avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin

postfix:x:89:89::/var/spool/postfix:/sbin/nologin

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

tcpdump:x:72:72::/:/sbin/nologin

akmtir:x:1000:1000:akmtir:/home/akmtir:/bin/bash

user3:x:1010:1001::/home/user3:/bin/bash user5:x:1002:1003::/home/user5:/bin/bash

edureka:x:1011:1011:New user edureka:/home/edureka:/bin/bash

newUser:x:1012:1012::/tmp/user:/bin/bash

[root@server1 Assignments]# [root@server1 Assignments]#

3 – Make edureka as the primary group of the user created above

[root@server1 Assignments]#

[root@server1 Assignments]# usermod -g edureka newUser

[root@server1 Assignments]#

[root@server1 Assignments]# groups newUser

newUser: edureka

[root@server1 Assignments]#

[root@server1 Assignments]# tail /etc/passwd

edureka:x:1011:1011:New user edureka:/home/edureka:/bin/bash

newUser:x:1012:1011::/tmp/user:/bin/bash

[root@server1 Assignments]#

[root@server1 Assignments]# id newUser

uid=1012(newUser) gid=1011(edureka) groups=1011(edureka)

[root@server1 Assignments]#

4 – Make root as the secondary group of the above user

[root@server1 Assignments]# usermod -G root newUser

[root@server1 Assignments]# id newUser uid=1012(newUser) gid=1011(edureka) groups=1011(edureka),0(root) [root@server1 Assignments]#

<u>5 – Delete a group called edureka</u>

[root@server1 Assignments]# groupdel edureka

groupdel: cannot remove the primary group of user 'edureka'

[root@server1 Assignments]#

[root@server1 Assignments]# usermod -g root edureka

[root@server1 Assignments]#

[root@server1 Assignments]# groupdel edureka

groupdel: cannot remove the primary group of user 'newUser'

[root@server1 Assignments]#

[root@server1 Assignments]# usermod -g root newUser

[root@server1 Assignments]#

[root@server1 Assignments]# groupdel edureka

[root@server1 Assignments]#

6 – Create a temporary user with account valid for 1 day

[root@server1 Assignments]# useradd tempUser

[root@server1 Assignments]#

[root@server1 Assignments]# chage tempUser

Changing the aging information for tempUser

Enter the new value, or press ENTER for the default

Minimum Password Age [0]:

Maximum Password Age [99999]:

Last Password Change (YYYY-MM-DD) [2017-05-07]:

Password Expiration Warning [7]:

Password Inactive [-1]:

Account Expiration Date (YYYY-MM-DD) [-1]: 2017-05-08

[root@server1 Assignments]#

[root@server1 Assignments]# chage -l tempUser

Last password change : May 07, 2017

Password expires : never
Password inactive : never

Account expires : May 08, 2017 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@server1 Assignments]#

7 – Create a directory with permissions 644

[root@server1 Assignments]#
[root@server1 Assignments]# umask
0022
[root@server1 Assignments]# mkdir assignment5
[root@server1 Assignments]# ls -ld assignment5/
drwxr-xr-x. 2 root root 4096 May 7 06:28 assignment5/
[root@server1 Assignments]# chmod 644 assignment5/
[root@server1 Assignments]# ls -ld assignment5/
drw-r--r--. 2 root root 4096 May 7 06:28 assignment5/
[root@server1 Assignments]#

8 – Create a script with SUID bit set

[root@server1 assignment5]# [root@server1 assignment5]# ls -l script.sh -rw-r--r-. 1 root root 103 May 7 06:50 script.sh [root@server1 assignment5]# cat script.sh #!/bin/bash

echo `whoami`
echo "As if the root user is running the script since it is owned by root."

[root@server1 assignment5]# chmod 4755 script.sh

[root@server1 assignment5]# ls -l script.sh

-rwsr-xr-x. 1 root root 103 May 7 06:50 script.sh

[root@server1 assignment5]#

[root@server1 assignment5]#

9 – Set ACL permissions, rw access to a user called edureka on file 'test' in home directory

root@akmtir-ThinkPad-T400:/home/akmtir# root@akmtir-ThinkPad-T400:/home/akmtir# umount /dev/sda3 root@akmtir-ThinkPad-T400:/home/akmtir# fdisk -l

Disk /dev/sda: 256.1 GB, 256059432448 bytes 255 heads, 63 sectors/track, 31130 cylinders, total 500116079 sectors Units = sectors of 1 * 512 = 512 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x000f3cbc

```
Device Boot
                Start
                                Blocks Id System
                         End
                2048 491945983 245971968 83 Linux
/dev/sda1 *
/dev/sda2
            491948030 500115455
                                    4083713 5 Extended
/dev/sda3
            491945984 491948029
                                       1023 83 Linux
/dev/sda5
            491948032 500115455
                                     4083712 82 Linux swap / Solaris
Partition table entries are not in disk order
root@akmtir-ThinkPad-T400:/home/akmtir# mount -t ext4 -o acl /dev/sda3 /DrivePart3/
root@akmtir-ThinkPad-T400:/home/akmtir#
root@akmtir-ThinkPad-T400:/home/akmtir#
root@akmtir-ThinkPad-T400:/home/akmtir#
root@akmtir-ThinkPad-T400:/home/akmtir# cd /DrivePart3/
root@akmtir-ThinkPad-T400:/DrivePart3# ls -lahd
drwxr-xr-x 3 root root 1.0K Mar 9 17:08.
root@akmtir-ThinkPad-T400:/DrivePart3#
root@akmtir-ThinkPad-T400:/DrivePart3# touch fileTest
root@akmtir-ThinkPad-T400:/DrivePart3# getfacl fileTest
# file: fileTest
# owner: root
# group: root
user::rw-
group::r--
other::r--
root@akmtir-ThinkPad-T400:/DrivePart3#
root@akmtir-ThinkPad-T400:/DrivePart3# setfacl -m u:edureka:rw fileTest
root@akmtir-ThinkPad-T400:/DrivePart3#
root@akmtir-ThinkPad-T400:/DrivePart3# getfacl fileTest
# file: fileTest
# owner: root
# group: root
user::rw-
user:akmtir:rw-
user:edureka:rw-
group::r--
mask::rw-
```

other::r--

root@akmtir-ThinkPad-T400:/DrivePart3#

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