Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: BOSS (2CSE204)

# PRACTICAL-4

**AIM: - To learn about managing local users and groups from the command line in Linux.**

**Commands:**
**useradd –** to add user
**usermod –** to do modification in user values
**userdel –** to delete user
**groupadd –** to add group
**groupdel –** to delete group
**chage –** to do modification in values of password

**Exercise:**

**Jakarta Pvt Ltd is an IT Company they are using Linus system for their work. They want to perform some operations as per below. Kindly refer it an provide appropriate solution for the same.**

**1. They want to set password for only 30 days for newly created accounts in their Linux. How they can set and ensure that newly created users have passwords that must be changed every 30 days.**

***CODE:*** vi /etc/login.defs

***ANSWER:***

```
# Password aging controls:
#
#       PASS_MAX_DAYS   Maximum number of days a password may be used.
#       PASS_MIN_DAYS   Minimum number of days allowed between password changes.
#       PASS_MIN_LEN    Minimum acceptable password length.
#       PASS_WARN_AGE   Number of days warning given before a password expires.
#
PASS_MAX_DAYS   30
PASS_MIN_DAYS   0
PASS_MIN_LEN    5
PASS_WARN_AGE   7
```

**2. Create the new group consultants with a GID of 35000.**

***ANSWER:***

```
[root@localhost ~]# groupadd -g 35000 consultants
[root@localhost ~]# cat /etc/group
consultants:x:35000:
[root@localhost ~]#
```

**3. Configure administrative rights for all members of consultants to be able to execute any command as any user.**

***ANSWER:***

```
[root@localhost ~]# vi /etc/sudoers.d/consultants
[root@localhost ~]# cat /etc/sudoers.d/consultants
%consultants ALL=(All) ALL
[root@localhost ~]#
```

**4. Create the consultant1, consultant2, and consultant3 users with consultants as their supplementary group.**

***ANSWER:***

```
[root@localhost ~]# useradd -G consultants consultant1
[root@localhost ~]# useradd -G consultants consultant2
[root@localhost ~]# useradd -G consultants consultant3
[root@localhost ~]# cat /etc/passwd
consultant1:x:1002:35001::/home/consultant1:/bin/bash
consultant2:x:1003:35002::/home/consultant2:/bin/bash
consultant3:x:1004:1004::/home/consultant3:/bin/bash
consultants:x:35000:consultant1,consultant2,consultant3
consultant1:x:35001:
consultant2:x:35002:
consultant3:x:1004:
consultant1:!!:18732:0:30:7:::
consultant2:!!:18732:0:30:7:::
consultant3:!!:18732:0:30:7:::
[root@localhost ~]#
```

**5. Set the consultant1, consultant2, and consultant3 accounts to expire in 90 days from the current day.**

***ANSWER:***

```
[root@localhost ~]# chage -E 2021-07-14 consultant1
[root@localhost ~]# chage -E 2021-07-14 consultant2
[root@localhost ~]# chage -E 2021-07-14 consultant3
[root@localhost ~]# cat /etc/shadow
consultant1:!!:18732:0:30:7::18822:
consultant2:!!:18732:0:30:7::18822:
consultant3:!!:18732:0:30:7::18822:
[root@localhost ~]#
```

**6. Change the password policy for the consultant2 account to require a new password every 15 days.**

***ANSWER:***

```
[root@localhost ~]# chage -M 15 consultant2
[root@localhost ~]# cat /etc/shadow
consultant1:!!:18732:0:30:7::18822:
consultant2:!!:18732:0:15:7::18822:
consultant3:!!:18732:0:30:7::18822:
[root@localhost ~]#
```

**7. Additionally, force the consultant1, consultant2, and consultant3 users to change their passwords on the first login.**

***ANSWER:***

```
[root@localhost ~]# chage -d 0 consultant1
[root@localhost ~]# chage -d 0 consultant2
[root@localhost ~]# chage -d 0 consultant3
[root@localhost ~]# cat /etc/shadow
consultant1:!!:0:0:30:7::18822:
consultant2:!!:0:0:15:7::18822:
consultant3:!!:0:0:30:7::18822:
[root@localhost ~]#
```