Assignment – User Management

1) Create user "nikhil" with home directory set as "/home/nikhil"

a) nikhil user should have "/bin/sh" shell for his environment

b) His password should expire in 9 days and 2 days before password expiry, he should get warning. User account must expire in 1 month from creation date

c) Give him root privileges to start/stop cron daemon.

Step 1 : Create user "nikhil" with home directory set as "/home/nikhil"
nikhil user should have "/bin/sh" shell for his environment
Cmd – sudo useradd -m -d /home/nikhil -s /bin/bash

```
ubuntu@ip-172-31-2-192:~$ sudo useradd -m -d /home/nikhil -s /bin/sh nikhil
ubuntu@ip-172-31-2-192:~$ grep nikhil /etc/passwd
nikhil:x:1017:1017::/home/nikhil:/bin/sh
```

Step 2 : Set passwd expiry to 9 days 2 days before password expiry, he should get warning
Cmd – sudo chage -M 9 -W 2 nikhil
M – maximum no of day that passwd is valid
W – gets warning before n no of days (in ths case it is 2).
His account must expire in 1 month from creation date
Cmd - sudo chage -E "2024-12-10" nikhil

For verifying
sudo chage -l nikhil

```
ubuntu@ip-172-31-2-192:~$ sudo chage -M 9 -W 2 nikhil
ubuntu@ip-172-31-2-192:~$ sudo chage -l nikhil
Last password change                                    : Nov 10, 2024
Password expires                                        : Nov 19, 2024
Password inactive                                       : never
Account expires                                         : never
Minimum number of days between password change          : 0
Maximum number of days between password change          : 9
Number of days of warning before password expires       : 2
ubuntu@ip-172-31-2-192:~$ sudo chage -E "2024-12-10" nikhil
ubuntu@ip-172-31-2-192:~$ sudo chage -l nikhil
Last password change                                    : Nov 10, 2024
Password expires                                        : Nov 19, 2024
Password inactive                                       : never
Account expires                                         : Dec 10, 2024
Minimum number of days between password change          : 0
Maximum number of days between password change          : 9
Number of days of warning before password expires       : 2
ubuntu@ip-172-31-2-192:~$
```

Step 3 : Give him root privileges to start/stop cron daemon
Cmd – sudo visudo
Visudo – this will open sudoers file in text editor where you add

Cmd - nikhil ALL=NOPASSWD: /usr/sbin/service cron start, /usr/sbin/service cron stop

to give start/stop cron daemon to nikhil

```
# Ditto for GPG agent
#Defaults:%sudo env_keep += "GPG_AGENT_INFO"

# Host alias specification

# User alias specification

# Cmnd alias specification

# User privilege specification
root    ALL=(ALL:ALL) ALL
nikhil ALL=NOPASSWD: /usr/sbin/service cron start, /usr/sbin/service cron stop

# Members of the admin group may gain root privileges
%admin ALL=(ALL) ALL

# Allow members of group sudo to execute any command
%sudo   ALL=(ALL:ALL) ALL
```

To Verify
Cmd - sudo service cron start
sudo service cron stop

2) Inside folder "/" , create new home directory as "nikhil" (/nikhil) and setup this folder as a home directory for user "nikhil"

To create new home directory as "nikhil"
Cmd - sudo mkdir /nikhil
To setup this folderas a home directory for user "nikhil"
Cmd - sudo usermod -d /nikhil nikhil
To verify
Cmd – grep nikhil /etc/passwd

```
ubuntu@ip-172-31-2-192:~$ sudo mkdir /nikhil
ubuntu@ip-172-31-2-192:~$ sudo chown nikhil:nikhil /nikhil
ubuntu@ip-172-31-2-192:~$ sudo usermod -d /nikhil nikhil
ubuntu@ip-172-31-2-192:~$ grep nikhil /etc/passwd
nikhil:x:1017:1017::/nikhil:/bin/sh
ubuntu@ip-172-31-2-192:~$
```