## **Linux User Management Task**

- 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.

```
ubuntu@ip-172-31-24-49:~$ sudo useradd -m -d /home/nikhil -s /bin/sh nikhil
ubuntu@ip-172-31-24-49:~$ getent passwd nikhil
nikhil:x:1004:1006::/home/nikhil:/bin/sh
```

```
ubuntu@ip-172-31-24-49:~$ sudo chage -M 9 nikhil
ubuntu@ip-172-31-24-49:~$ sudo chage -W 2 nikhil
ubuntu@ip-172-31-24-49:~$ sudo chage -E $(date -d "30 days" +%Y-%m-%d) nikhil
ubuntu@ip-172-31-24-49:~$ sudo chage -l nikhil
Last password change
                                                          : Oct 04, 2024
Password expires
                                                          Oct 13, 2024
Password inactive
                                                           never
Account expires
                                                           Nov 03, 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
```

```
GNU nano 7.2
                                              /etc/sudoers.tmp *
nikhil ALL=(ALL) NOPASSWD: /usr/sbin/service cron start, /usr/sbin/service cron stop
 This file MUST be edited with the 'visudo' command as root.
 Please consider adding local content in /etc/sudoers.d/ instead of
 directly modifying this file.
 See the man page for details on how to write a sudoers file.
Defaults
               env_reset
Defaults
               mail_badpass
Defaults
               secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/shap/bin"
 This fixes CVE-2005-4890 and possibly breaks some versions of kdesu
 (#1011624, https://bugs.kde.org/show_bug.cgi?id=452532)
               use_pty
Defaults
# This preserves proxy settings from user environments of root
# equivalent users (group sudo)
#Defaults:%sudo env_keep += "http_proxy https_proxy ftp_proxy all_proxy no_proxy"
# This allows running arbitrary commands, but so does ALL, and it means
 different sudoers have their choice of editor respected.
#Defaults:%sudo env_keep += "EDITOR"
^G Help
                                                                       ^C Location
                                                                                     M-U Undo
              ^O Write Out
                            ^W Where Is
                                          ^K Cut
                                                         ^T Execute
                Read File
                                             Paste
  Exit
                               Replace
                                                           Justify
                                                                         Go To Line M-E
                                                                                        Redo
```

```
ubuntu@ip-172-31-24-49:~$ sudo visudo
ubuntu@ip-172-31-24-49:~$ su nikhil
Password:
$ sudo service cron start
$ systemctl status cron
 cron.service - Regular background program processing daemon
     Loaded: loaded (/usr/lib/systemd/system/cron.service; enabled; preset: enabled)
     Active: active (running) since Fri 2024-10-04 05:40:25 UTC; 1h 20min ago
       Docs: man:cron(8)
   Main PID: 575 (cron)
      Tasks: 1 (limit: 1130)
     Memory: 500.0K (peak: 3.0M)
        CPU: 67ms
     CGroup: /system.slice/cron.service
             └575 /usr/sbin/cron -f -P
Warning: some journal files were not opened due to insufficient permissions.
```

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

```
ubuntu@ip-172-31-24-49:/$ sudo mkdir /nikhil
ubuntu@ip-172-31-24-49:/$ sudo chown nikhil:nikhil /nikhil
ubuntu@ip-172-31-24-49:/$ ls -ld /nikhil
drwxr-xr-x 2 nikhil nikhil 4096 Oct 4 07:03 /nikhil
ubuntu@ip-172-31-24-49:/$
ubuntu@ip-172-31-24-49:/$ sudo chmod 700 /nikhil
ubuntu@ip-172-31-24-49:/$ ls -ld nikhil
drwx----- 2 nikhil nikhil 4096 Oct 4 07:03 nikhil
ubuntu@ip-172-31-24-49:/$
ubuntu@ip-172-31-24-49:/$ sudo usermod -d /nikhil nikhil
ubuntu@ip-172-31-24-49:/$ su nikhil
Password:
$ cd ~
 pwd
/nikhil
$
```