

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

Solutions:

- 1) a) Sudo usermod -m nikhil -s bin/sh
- b) sudo chage -M 9 -W 2 nikhil

For user account expiry

sudo chage -E \$(date -d "+1 month" +%Y-%m-%d) nikhil

Verify:

sudo chage -l nikhil

```
ubuntu@ip-172-31-22-172:~$ sudo useradd -m nikhil -s /bin/sh
ubuntu@ip-172-31-22-172:~$ id nikhil
uid=1011(nikhil) gid=1011(nikhil) groups=1011(nikhil)
ubuntu@ip-172-31-22-172:~$ sudo chage -M 9 -W 2 nikhil
ubuntu@ip-172-31-22-172:~$ sudo chage -E $(date -d "+1 month" +%Y-%m-%d) nikhil
ubuntu@ip-172-31-22-172:~$ sudo chage -l nikhil
Last password change                : Mar 02, 2025
Password expires                    : Mar 11, 2025
Password inactive                    : never
Account expires                     : Apr 02, 2025
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-172-31-22-172:~$ cd ~
```

c)

- 2) cd~  
Mkdir nikhil/  
Sudo Mv /home/nikhil /nikhil

Set permissions:

Sudo chown nikhil:nikhil nikhil/

Sudo chmod 700 nikhil

Setting nikhil as new home dir for nikhil

sudo usermod -d /nikhil nikhil

```
ubuntu@ip-172-31-22-172:~$ cd ~  
ubuntu@ip-172-31-22-172:~$ sudo mkdir nikhil/  
ubuntu@ip-172-31-22-172:~$ sudo chown nikhil:nikhil nikhil/  
ubuntu@ip-172-31-22-172:~$ chmod 700 nikhil/
```

Verify:

getent passwd nikhil

```
ubuntu@ip-172-31-22-172:~$ sudo ls -l nikhil  
total 0  
ubuntu@ip-172-31-22-172:~$ getent passwd nikhil  
nikhil:x:1011:1011:./nikhil:/bin/sh  
ubuntu@ip-172-31-22-172:~$ █
```