

# Experiment No.2

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## Objectives:

1. Creating a user account and assigning it to a particular group
2. Changing the expiration date of a particular user or a group
3. Deleting a particular group or a user account

## Concepts:

As an administrator, you need to follow these responsibilities:

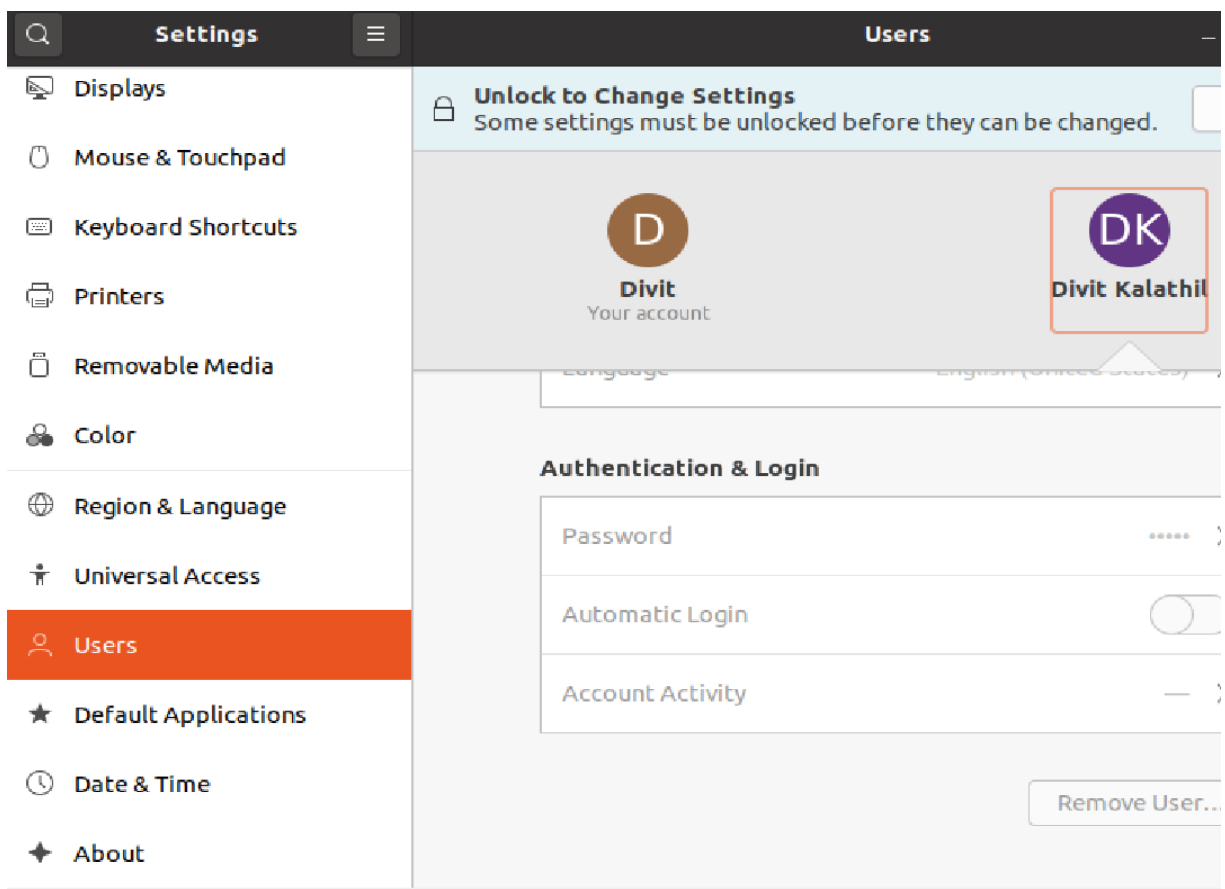
- Administration
- Monitoring the users on a network.
- Security

## Experimental observations and results:

1. `adduser username` - This command will automatically add a new user to the system
2. `groupadd groupname` - Create a new group with the given name on the system
3. `groups username` - Shows which groups the specified user is in. If user is not specified the default user is chosen

```
Activities Terminal Jan 29 18:38
divit@divit-VirtualBox: ~
divit@divit-VirtualBox: ~
divit@divit-VirtualBox: ~
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
divit@divit-VirtualBox:~$ sudo adduser divitkal
[sudo] password for divit:
Adding user `divitkal' ...
Adding new group `divitkal' (1001) ...
Adding new user `divitkal' (1001) with group `divitkal' ...
Creating home directory `/home/divitkal' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for divitkal
Enter the new value, or press ENTER for the default
  Full Name []: Divit Kalathil
    Room Number []: 104
    Work Phone []: 8369779747
    Home Phone []: 98989898
      Other []:
Is the information correct? [Y/n] Y
divit@divit-VirtualBox:~$
```

*Adding a new user via Linux Terminal*



*Verification of New user added named tempuser*

```
divit@divit-VirtualBox: ~  
divit@divit-VirtualBox:~$ sudo groupadd mypersonalgrp  
divit@divit-VirtualBox:~$ sudo adduser divitkal mypersonalgrp  
Adding user `divitkal' to group `mypersonalgrp' ...  
Adding user divitkal to group mypersonalgrp  
Done.  
divit@divit-VirtualBox:~$ groups  
divit adm cdrom sudo dip plugdev lpadmin lxd sambashare  
divit@divit-VirtualBox:~$ groups mypersonalgrp  
groups: 'mypersonalgrp': no such user  
divit@divit-VirtualBox:~$ groups divitkal  
divitkal : divitkal mypersonalgrp  
divit@divit-VirtualBox:~$
```

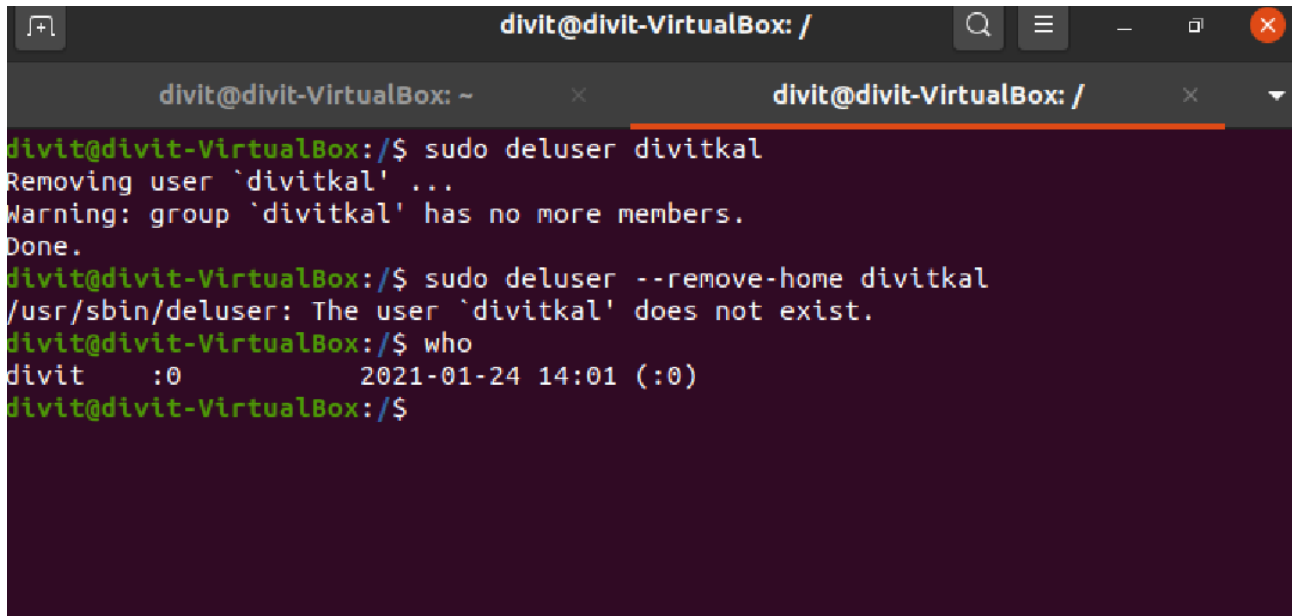
*Note: Another user was added named newuser. This user was also added to the same group tempgrp*

4. `change -l username` - The `change` command can be used to view and change a user account's password expiration information.

```
divit@divit-VirtualBox: ~  
divit@divit-VirtualBox: /  
divit@divit-VirtualBox:/$ sudo chage -l divitkal  
Last password change : Jan 29, 2021  
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  
divit@divit-VirtualBox:/$ sudo chage divitkal  
Changing the aging information for divitkal  
Enter the new value, or press ENTER for the default  
  
Minimum Password Age [0]: 5  
Maximum Password Age [99999]: 100  
Last Password Change (YYYY-MM-DD) [2021-01-29]: 2021-01-29  
Password Expiration Warning [7]: 5  
Password Inactive [-1]: 10  
Account Expiration Date (YYYY-MM-DD) [-1]:  
divit@divit-VirtualBox:/$ sudo chage -E 2021-12-31 divitkal  
divit@divit-VirtualBox:/$ sudo chage -l divitkal  
Last password change : Jan 29, 2021  
Password expires : May 09, 2021  
Password inactive : May 19, 2021  
Account expires : Dec 31, 2021  
Minimum number of days between password change : 5  
Maximum number of days between password change : 100  
Number of days of warning before password expires : 5
```

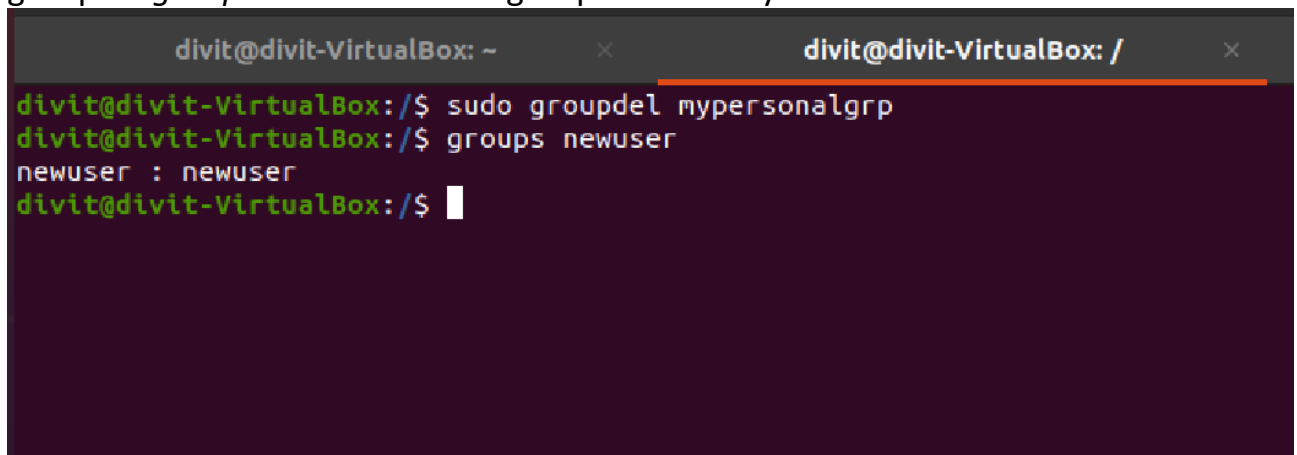
When function `-E` is used the expiry date of the user can be changed to any given date. If `-1` is input as date then expiry date is removed completely. Similarly all parameters can be changed via `sudo chage` command.

5. `deluser username` – Remove a user from the system
6. `deluser --remove-home username`- Removes the home directory for the user

A terminal window titled 'divit@divit-VirtualBox: /' with two tabs. The first tab is 'divit@divit-VirtualBox: ~' and the second is 'divit@divit-VirtualBox: /'. The terminal shows the following commands and output:

```
divit@divit-VirtualBox:/$ sudo deluser divitkal
Removing user `divitkal' ...
Warning: group `divitkal' has no more members.
Done.
divit@divit-VirtualBox:/$ sudo deluser --remove-home divitkal
/usr/sbin/deluser: The user `divitkal' does not exist.
divit@divit-VirtualBox:/$ who
divit      :0                2021-01-24 14:01 (:0)
divit@divit-VirtualBox:/$
```

7. `groupdel groupname`- Remove a group from the system

A terminal window titled 'divit@divit-VirtualBox: /' with two tabs. The first tab is 'divit@divit-VirtualBox: ~' and the second is 'divit@divit-VirtualBox: /'. The terminal shows the following commands and output:

```
divit@divit-VirtualBox:/$ sudo groupdel mypersonalgrp
divit@divit-VirtualBox:/$ groups newuser
newuser : newuser
divit@divit-VirtualBox:/$
```

Here even if a group is deleted the users in that group remain untouched.

## Conclusion:

Learnt about the role of administrator along with his responsibilities.  
Verified and learnt new commands to add a new user or a group.  
Changed the expiration date as well as set parameters for password.