LAB A13.1 - Managing Users in Linux

Operating System and Software Versions

- **Operating System:** - Ubuntu 18/19.04

Requirements

Privileged access to your Ubuntu System as root or via sudo command is required.
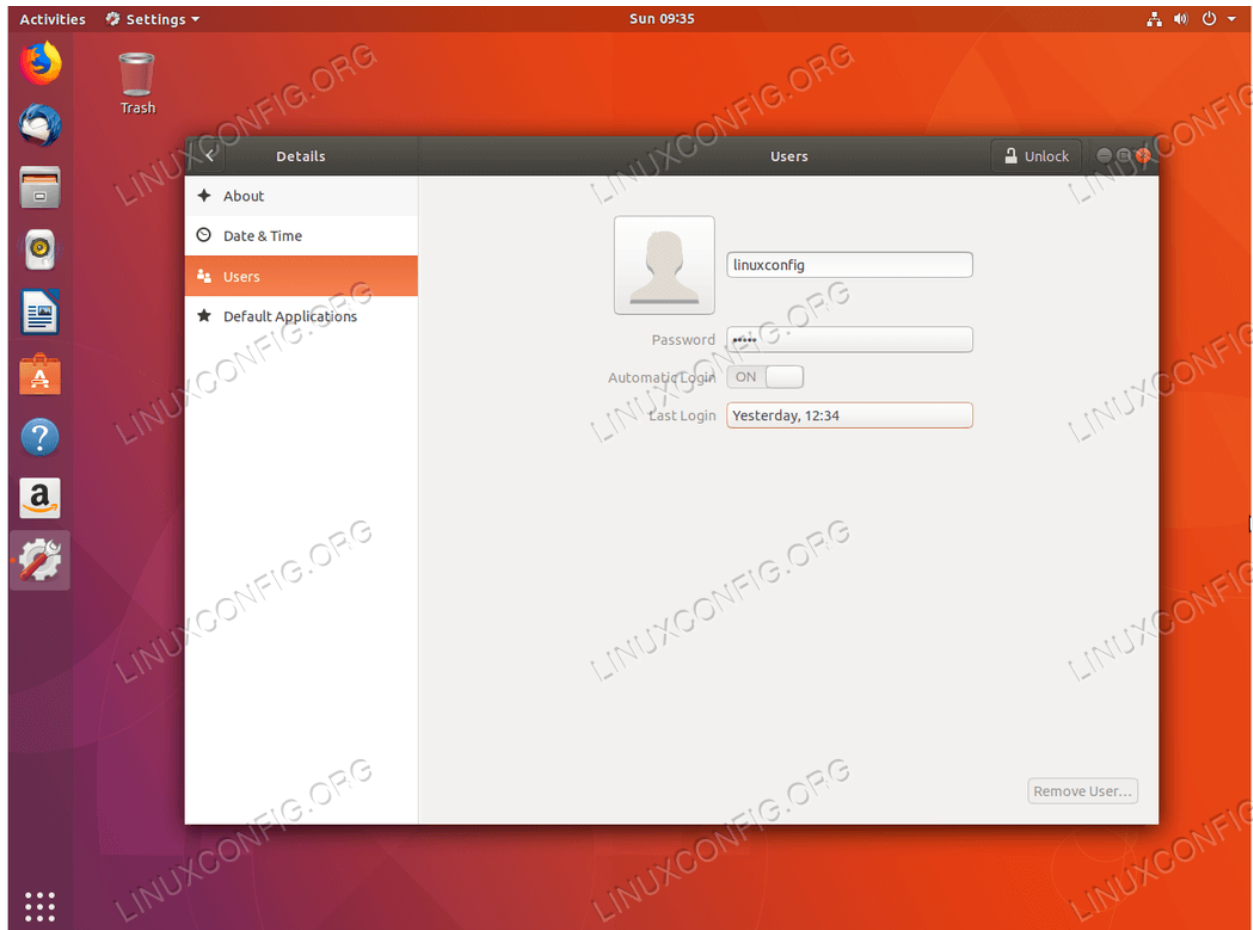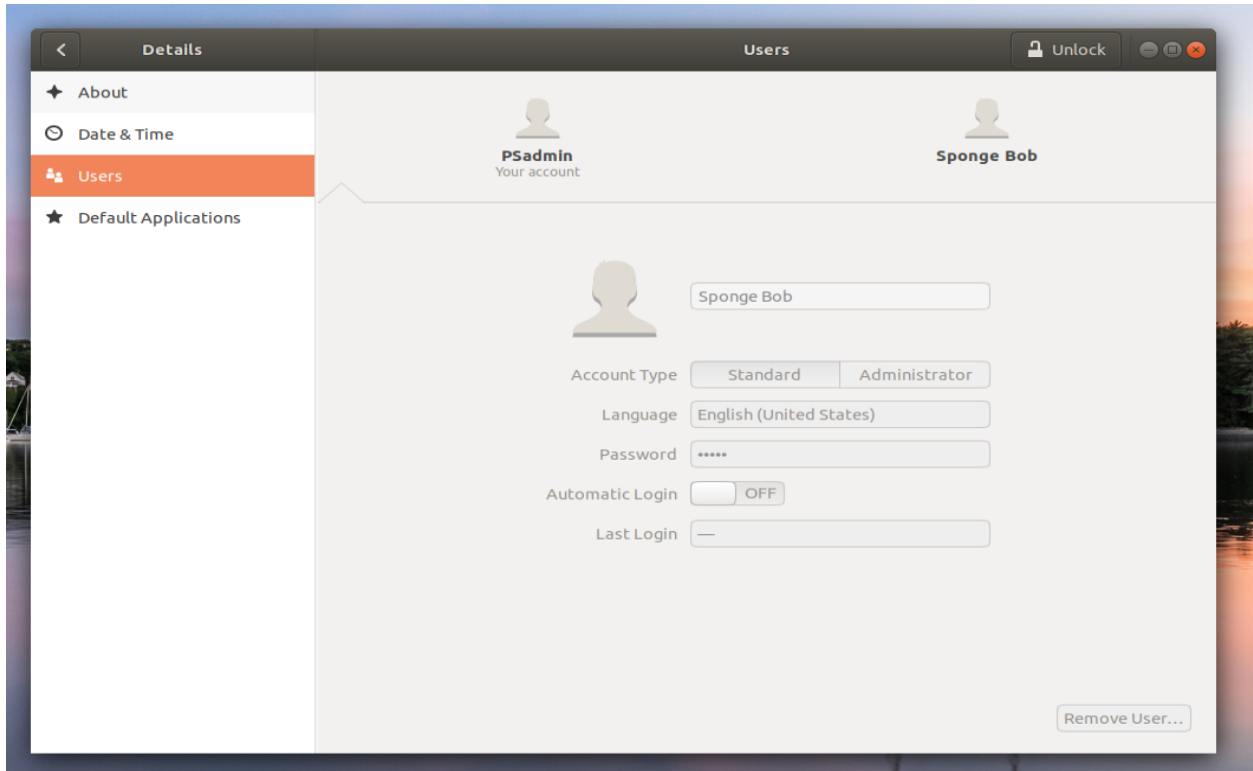
Difficulty EASY

Conventions

- **#** - requires given [linux commands](#) to be executed with root privileges either directly as a root user or by use of sudo command
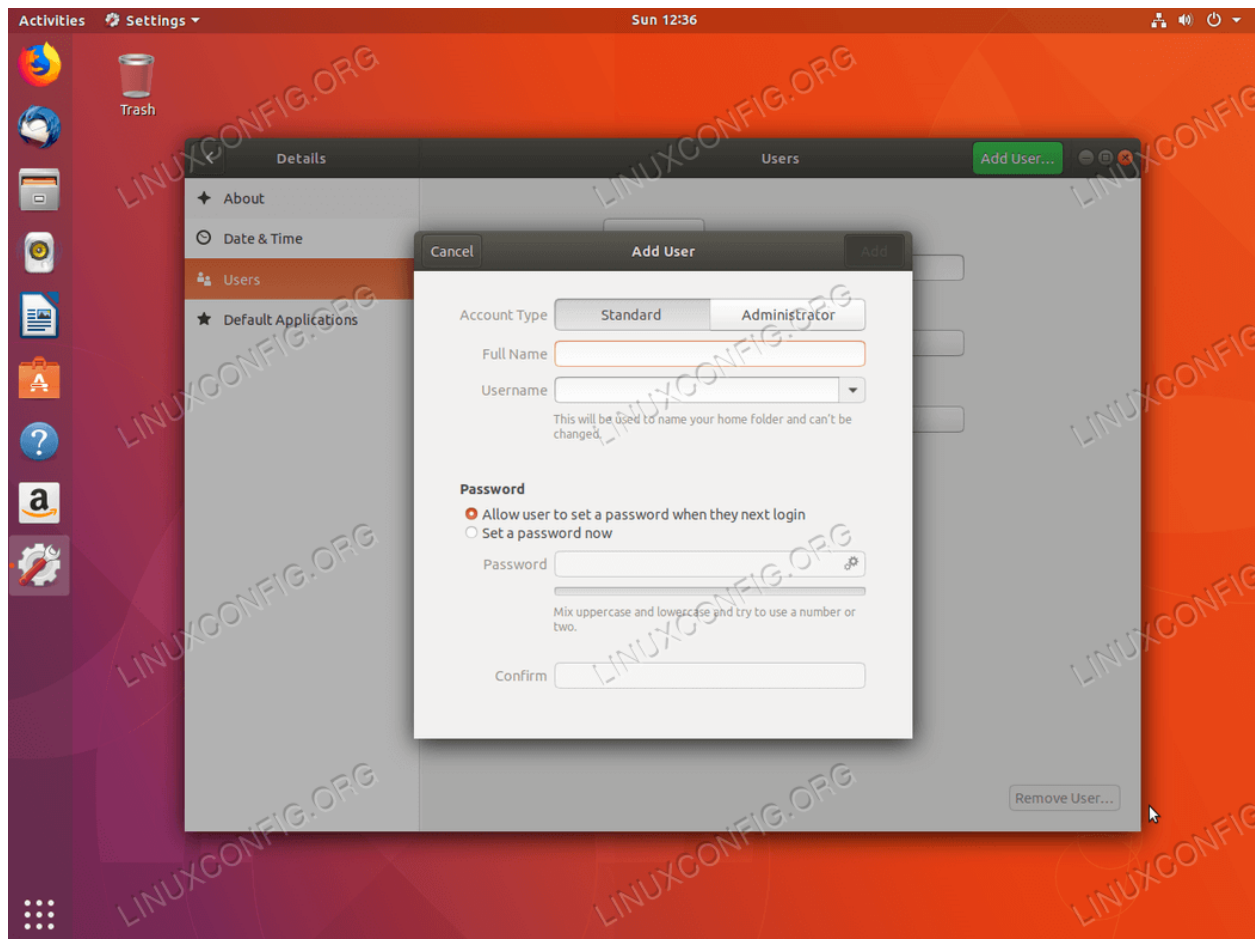- **$** - requires given [linux commands](#) to be executed as a regular non-privileged user

Add user to Ubuntu via GUI

Add user on Ubuntu GNOME Desktop

To create a new user on Ubuntu GNOME Desktop, first, open the **SETTINGS** window. Next, navigate to About → Users menu.

Details | **Users** | 🔒 Unlock

- ✦ About
- 🕐 Date & Time
- 👥 Users
- ★ Default Applications

PSadmin
Your account

Sponge Bob

Sponge Bob

Account Type | Standard | Administrator

Language | English (United States)

Password | •••••

Automatic Login | OFF

Last Login | —

Remove User...

Activities ⚙ Settings ▾ | Sun 09:35

Trash

Details | **Users** | 🔒 Unlock

- ✦ About
- 🕐 Date & Time
- 👥 Users
- ★ Default Applications

linuxconfig

Password | ••••

Automatic Login | ON

Last Login | Yesterday, 12:34

Remove User...

Click Unlock on the top right corner and enter your administrative password.

Select whether you wish to create a Standard or Administrator account. Enter the required information and hit the Add button to create a new user account.

From here select New User, fill in all required user information. If you need a new user account to have administrative privileges tick the Enable administrator privileges for this user radio tick box. Once ready, hit the Apply button followed by your administrative password.

Hit Add button, select a new user account type enter username and full name followed by Add button.

To set a password for the new user click on No password set.

Add user to Ubuntu via command line

To add a user on Ubuntu via command line first, open up the terminal and execute adduser command with username as an argument.

For example, the below adduser command will create a new user with username StudentXXX. Except for the password, any additional requested information is optional. If you do not wish to add any information, simply hit the ENTER key:

```
psadmin@psadmin-VirtualBox: ~

File  Edit  View  Search  Terminal  Help

psadmin@psadmin-VirtualBox:~$ sudo adduser Roy
[sudo] password for psadmin:
.adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable.  Use the `--force-badname'
option to relax this check or reconfigure NAME_REGEX.
psadmin@psadmin-VirtualBox:~$ sudo adduser Roy
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable.  Use the `--force-badname'
option to relax this check or reconfigure NAME_REGEX.
psadmin@psadmin-VirtualBox:~$ sudo adduser roy
Adding user `roy' ...
Adding new group `roy' (1003) ...
Adding new user `roy' (1002) with group `roy' ...
Creating home directory `/home/roy' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
Sorry, passwords do not match
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N] y
Enter new UNIX password:
Retype new UNIX password:
No password supplied
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for roy
Enter the new value, or press ENTER for the default
        Full Name []: Raj Roy
        Room Number []: 101
        Work Phone []: 121-121-1212
        Home Phone []: 101-101-1010
        Other []:
Is the information correct? [Y/n] Y
psadmin@psadmin-VirtualBox:~$
```

$ <mark>sudo adduser StudentXXX</mark>
Adding user `StudentXXX' ...
Adding new group `StudentXXX' (1001) ...
Adding new user `StudentXXX' (1001) with group `StudentXXX' ...
Creating home directory `/home/StudentXXX' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully

Changing the user information for StudentXXX
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] **y**

Once the new user is created, you can log in to GUI using the user's new credentials or obtain
the user's command prompt via the su command:
$ su StudentXXX
Password:
$ whoami
StudentXXX

```
psadmin@psadmin-VirtualBox:~$ cat /etc/passwd
```

```
sob:x:1001:1001:Sponge Bob,112,555-555-5555,555-555-5551,Class Work:/home/sob:/bin/bash
roy:x:1002:1003:Raj Roy,101,121-121-1212,101-101-1010:/home/roy:/bin/bash
psadmin@psadmin-VirtualBox:~$
```

```
roy@psadmin-VirtualBox: /home/psadmin

File  Edit  View  Search  Terminal  Help
psadmin@psadmin-VirtualBox:~$ su roy
Password:
roy@psadmin-VirtualBox:/home/psadmin$
```

1) Which method of adding user accounts is faster? Linux

2) Which method of adding user accounts is easier to remember? Linux

3) What is the benefit of adding users using the command line? More details

4) What is the benefit of adding users using the GUI?
     Ans: Easy to find user and no need to use command.

5) What are the different types of user accounts that can be created in Ubuntu?
     root, service/system and user

6) What is the command to execute a command as an administrator? Sudo
7) What does the sudo command do? allows us to temporarily elevate your current
     user account to have root privileges

8) What does the su command do? switch user

9) What does the whoami command do? Shows the current user

10) What is a command that you can use to check the time from the Terminal? date

11) What is a command that you can use to check the date from the Terminal? date

12) What is a command to view the permission of an object in the Terminal? Ls -L

```
psadmin@psadmin-VirtualBox:~$ su roy
Password:
roy@psadmin-VirtualBox:/home/psadmin$ whoami
roy
roy@psadmin-VirtualBox:/home/psadmin$ date
Thu Nov 10 19:19:14 EST 2022
roy@psadmin-VirtualBox:/home/psadmin$ time

real    0m0.000s
user    0m0.000s
sys     0m0.000s
```

```
roy@psadmin-VirtualBox:/home/psadmin$ ls -l
total 48
-rw------- 1 psadmin psadmin   53 Nov  8 22:33 bad-reads-script.sh.save
drwxr-xr-x 2 psadmin psadmin 4096 Mar 21  2021 Desktop
drwxr-xr-x 2 psadmin psadmin 4096 Mar 21  2021 Documents
drwxr-xr-x 2 psadmin psadmin 4096 Nov  8 11:54 Downloads
-rw-r--r-- 1 psadmin psadmin 8980 Mar 21  2021 examples.desktop
drwxr-xr-x 2 psadmin psadmin 4096 Mar 21  2021 Music
drwxr-xr-x 2 psadmin psadmin 4096 Mar 21  2021 Pictures
drwxr-xr-x 2 psadmin psadmin 4096 Mar 21  2021 Public
drwxr-xr-x 2 psadmin psadmin 4096 Mar 21  2021 Templates
drwxr-xr-x 2 psadmin psadmin 4096 Mar 21  2021 Videos
roy@psadmin-VirtualBox:/home/psadmin$
```