

Tasks:

- Install Linux on the computer
- Learn the basic commands

Linux Installation

Installing linux in the system using WSL(Windows Subsystem for Linux)

Windows Subsystem for Linux (WSL) lets developers run a GNU/Linux environment -- including most command-line tools, utilities, and applications -- directly on Windows, unmodified, without the overhead of a traditional virtual machine or dual-boot setup.

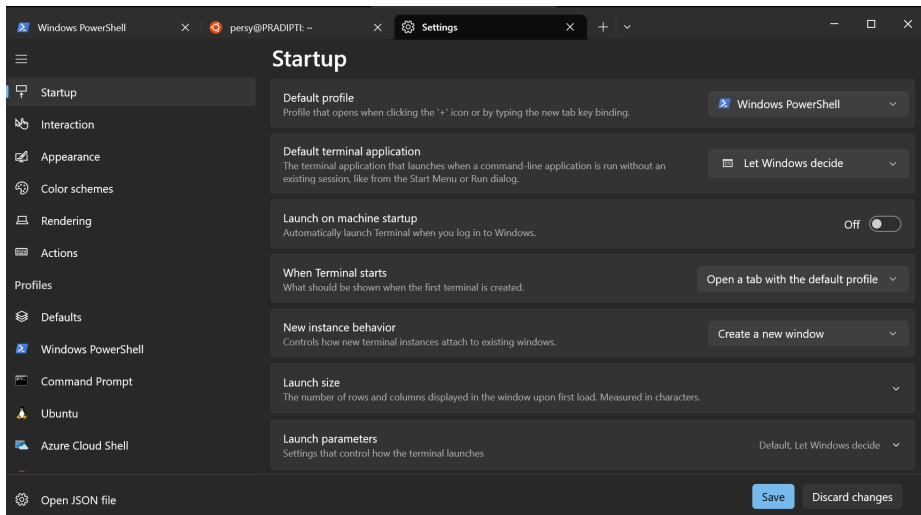
```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>wsl --install
Installing: Virtual Machine Platform
Virtual Machine Platform has been installed.
Installing: Windows Subsystem for Linux
Windows Subsystem for Linux has been installed.
Installing: Windows Subsystem for Linux
Windows Subsystem for Linux has been installed.
Installing: Ubuntu
Ubuntu has been installed.
The requested operation is successful. Changes will not be effective until the system is rebooted.
```

Creating user accounts in the Ubuntu.

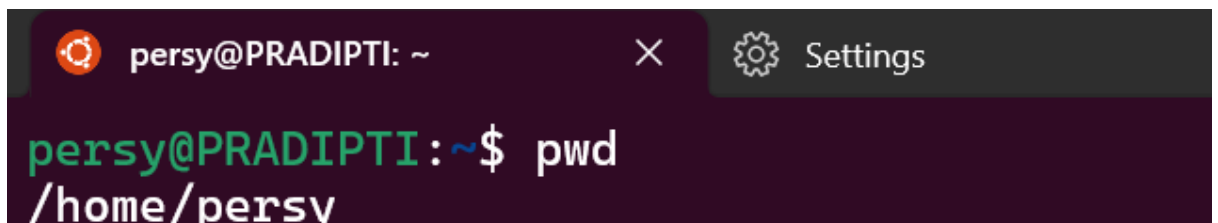
```
persy@PRADIPTI: ~
Ubuntu is already installed.
Launching Ubuntu...
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: persy
New password:
Retype new password:
passwd: password updated successfully
Installation successful!
```

Setting up the Windows terminal for the smooth operation of Linux with WSL.

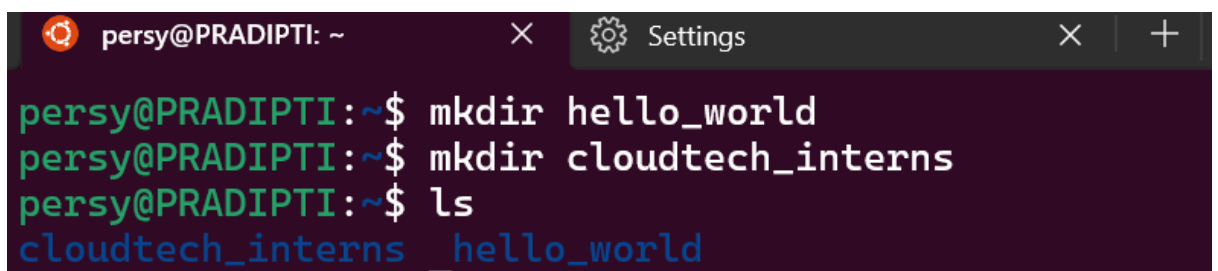


Some basic linux commands

- **pwd**-To view the path of the directory you are currently running



- **mkdir**-Create a new directory following the name of the directory using this command.
- **ls**-To see the contents of the directory currently running, use the flag "-l" so see the additional details



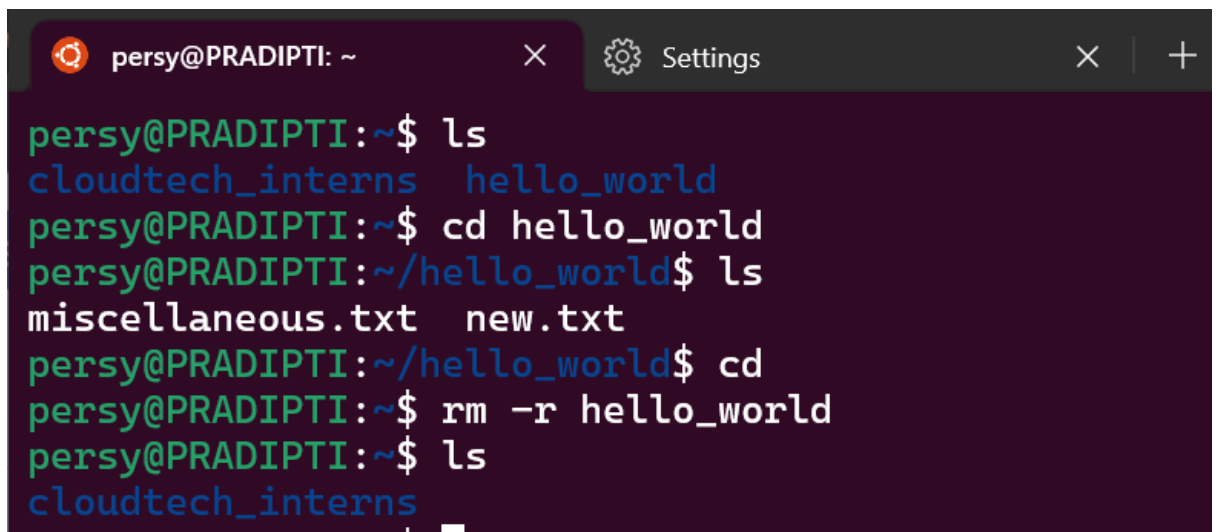
- **cd**-To change directories, use the 'cd' command followed by the name of the directory you want to navigate to
- **touch**- Creating a new file via the 'touch' command followed by the name of the file.
- To edit the file run the program name followed by the filename that you want to edit.(in this case **notepad.exe**)

```
persy@PRADIPTI:~$ cd hello_world
persy@PRADIPTI:~/hello_world$ touch new.txt
persy@PRADIPTI:~/hello_world$ notepad.exe new.txt
persy@PRADIPTI:~/hello_world$ cd
```

- **cat**-To see the contents of a file the 'cat' command is used followed by the file that is to be read

```
persy@PRADIPTI:~/cloudtech_interns$ cat intern_information.txt
Pradipti
Roshan
Anmol
Shreeya
Anjil
Shiva
Aayush
Ngawang
Mishan
Punit
```

- **rm**- To delete any directory file , use '-d' to delete the empty directory and '-r' to delete the directory and its content .



```
persy@PRADIPTI: ~
persy@PRADIPTI:~$ ls
cloudtech_interns  hello_world
persy@PRADIPTI:~$ cd hello_world
persy@PRADIPTI:~/hello_world$ ls
miscellaneous.txt  new.txt
persy@PRADIPTI:~/hello_world$ cd
persy@PRADIPTI:~$ rm -r hello_world
persy@PRADIPTI:~$ ls
cloudtech_interns
```

- **mv**-To move a file from one location to another,

```
persy@PRADIPTI:~/cloudtech_interns$ ls
intern_info.txt  new
persy@PRADIPTI:~/cloudtech_interns$ cp interns_info.txt /home/persy/cloudtech_interns/new/
cp: cannot stat 'interns_info.txt': No such file or directory
persy@PRADIPTI:~/cloudtech_interns$ cp intern_info.txt /home/persy/cloudtech_interns/new/
persy@PRADIPTI:~/cloudtech_interns$ cd new
persy@PRADIPTI:~/cloudtech_interns/new$ ls
intern_info.txt
```

as well as rename the file

```

persy@PRADIPTI:~$ cd cloudtech_interns
persy@PRADIPTI:~/cloudtech_interns$ l
intern_information.txt
persy@PRADIPTI:~/cloudtech_interns$ ls
intern_information.txt
persy@PRADIPTI:~/cloudtech_interns$ ls -l
total 4
-rw-r--r-- 1 persy persy 86 Oct 16 12:59 intern_information.txt
persy@PRADIPTI:~/cloudtech_interns$ mv intern_information.txt intern_info.txt
persy@PRADIPTI:~/cloudtech_interns$ ls
intern_info.txt

```

- uname-Shows system information such as the operating system name and kernel version

```

persy@PRADIPTI:/$ uname
Linux

```

- locate-Searches for files and directories by name using a pre-built database

```

persy@PRADIPTI:/$ locate cloudtech
/home/persy/cloudtech_interns
/home/persy/cloudtech_interns/intern_information.txt
/mnt/c/Users/uSer/AppData/Local/Google/Chrome/User Data/Default/IndexedDB/https_cloudtechservice.com_0.indexeddb
.leveldb
/mnt/c/Users/uSer/AppData/Local/Google/Chrome/User Data/Default/IndexedDB/https_cloudtechservice.com_0.indexeddb
.leveldb/000004.log
/mnt/c/Users/uSer/AppData/Local/Google/Chrome/User Data/Default/IndexedDB/https_cloudtechservice.com_0.indexeddb
.leveldb/000005.ldb
/mnt/c/Users/uSer/AppData/Local/Google/Chrome/User Data/Default/IndexedDB/https_cloudtechservice.com_0.indexeddb
.leveldb/CURRENT
/mnt/c/Users/uSer/AppData/Local/Google/Chrome/User Data/Default/IndexedDB/https_cloudtechservice.com_0.indexeddb
.leveldb/LOCK
/mnt/c/Users/uSer/AppData/Local/Google/Chrome/User Data/Default/IndexedDB/https_cloudtechservice.com_0.indexeddb
.leveldb/LOG
/mnt/c/Users/uSer/AppData/Local/Google/Chrome/User Data/Default/IndexedDB/https_cloudtechservice.com_0.indexeddb
.leveldb/LOG.old
/mnt/c/Users/uSer/AppData/Local/Google/Chrome/User Data/Default/IndexedDB/https_cloudtechservice.com_0.indexeddb
.leveldb/MANIFEST-000001
/mnt/c/Users/uSer/AppData/Roaming/Microsoft/Internet Explorer/Quick Launch/User Pinned/ImplicitAppShortcuts/4849
9db33039e897/Pradipti (cloudtechservice.com) - Chrome.lnk
/mnt/c/Users/uSer/AppData/Roaming/Microsoft/Windows/Recent/cloudtech_interns.lnk

```