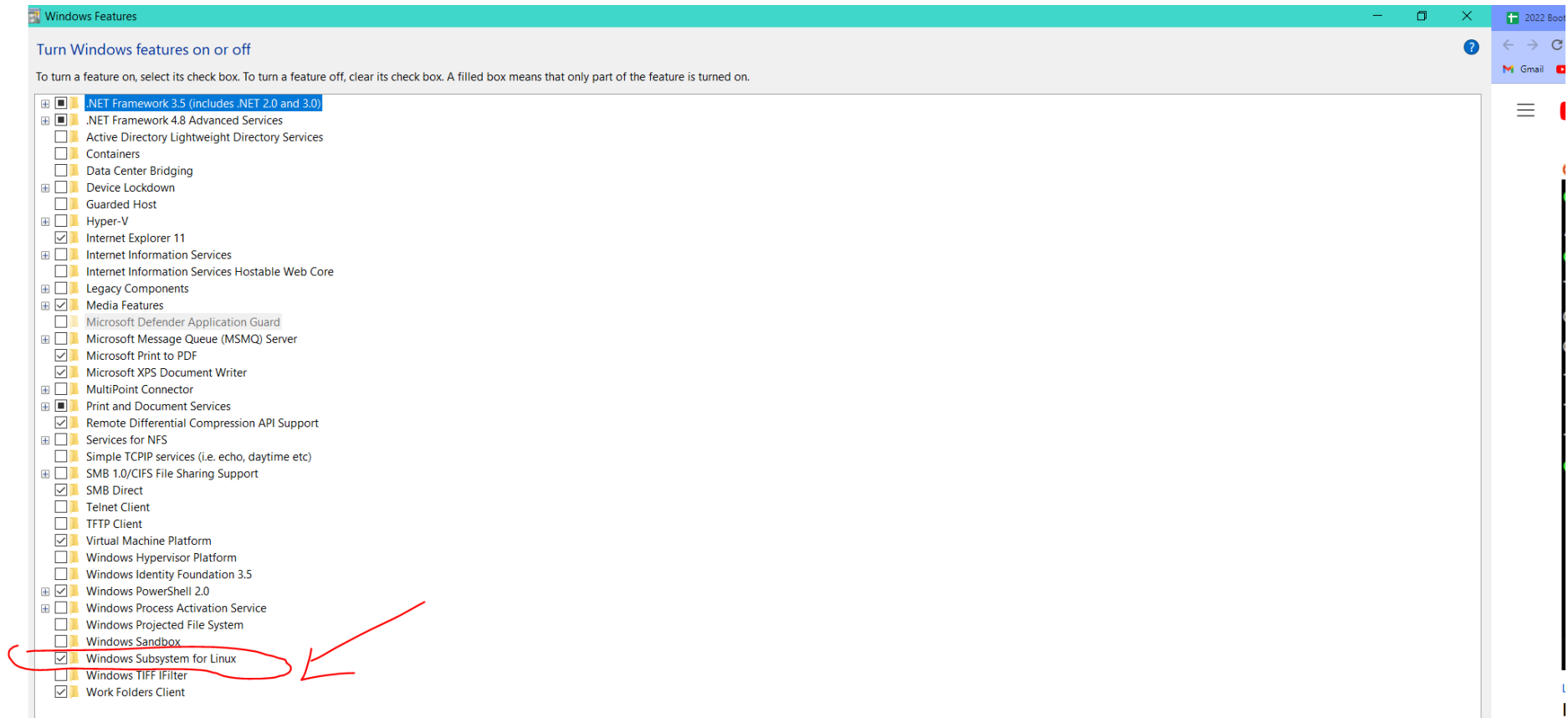


- **Activation of linux on windows**



## - Download and Installations

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Library




# Ubuntu

Canonical Group Limited

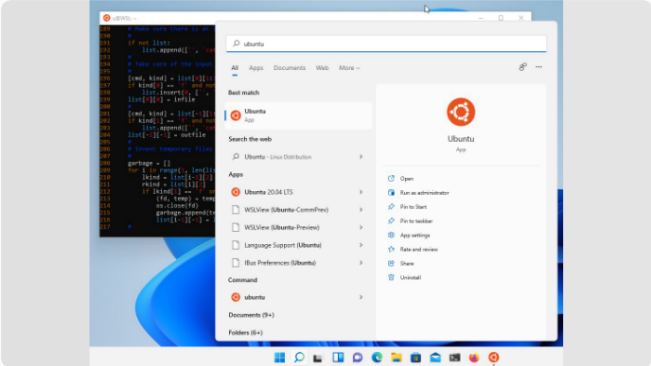
Open

4,8 ★ Average | 9 Ratings

Developer tools

**PEGI 3**  
Age Rating: PEGI, PEGI 3

Screenshots



Description

Install a complete Ubuntu terminal environment in minutes with Windows Subsystem for Linux (WSL). Develop cross-platform applications, improve your data science or web development workflows and manage IT infrastructure without leaving Windows.

Key features:

- Efficient command line utilities including bash, ssh, git, apt, npm, pip and many more
- Manage Docker containers with improved performance and startup times
- Leverage GPU acceleration for AI/ML workloads with NVIDIA CUDA
- A consistent development to deployment workflow when using Ubuntu in the cloud
- 5 years of security patching with Ubuntu Long Term Support (LTS) releases

...

[Show more](#)

## - Profile creation

```
tlhokomelo@DESKTOP-PI2VM19: ~  
Enter new UNIX username: Tlhokomelo  
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.  
Enter new UNIX username: tlhokomelo --force-badname  
New password:  
Retype new password:  
passwd: password updated successfully  
Installation successful!  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 4.4.0-19041-Microsoft x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
This message is shown once a day. To disable it please create the  
/home/tlhokomelo/.hushlogin file.  
tlhokomelo@DESKTOP-PI2VM19:~$ pwd  
/home/tlhokomelo  
tlhokomelo@DESKTOP-PI2VM19:~$ ls -la  
total 8  
drwxr-x--- 1 tlhokomelo tlhokomelo 512 Nov  2 12:55 .  
drwxr-xr-x 1 root      root      512 Nov  2 12:55 ..  
-rw-r--r-- 1 tlhokomelo tlhokomelo 220 Nov  2 12:55 .bash_logout  
-rw-r--r-- 1 tlhokomelo tlhokomelo 3771 Nov  2 12:55 .bashrc  
-rw-r--r-- 1 tlhokomelo tlhokomelo  0 Nov  2 12:55 .motd_shown  
-rw-r--r-- 1 tlhokomelo tlhokomelo 807 Nov  2 12:55 .profile  
tlhokomelo@DESKTOP-PI2VM19:~$
```

- **Useful Commands:**

Commands	Explanation
cd <folder Name>/	Takes you into the specific folder
ls -la	Lists all files in the folder
touch <file name>	Creates a file
nano <file name>	Edits a file (opens up the nano editor)
	Ctrl X to exit
	Y to save
	Enter to keep the file name
cat <file name>	To see contents of file
sudo apt-get update	Updates packages within Linux to the latest version
sudo apt-get upgrade	Updates packages within Linux
sudo apt-get install tree	Installs the tree command (allows you to view your directory structure)
tree	Displays directory structure
cd	Switches back to the Linux home directory
nano ~/.bashrc	Edits the bashrc file within the Linux home directory to prepare for creating an alias
alias winhome='cd mnt/c/Users/thlok/'	Creates an alias into specified directory
source ~/.bashrc	Source the file for changes to take effect
winhome	Takes you to newly created alias home directory
<b>Using Linux commands withing Windows Command prompt</b>	
bash	Switches windows command prompt to Linux Command prompt
grep -ni "String" <folder name>/<file name>	Finds a string in a specific file

## Examples:

- Listing files in a folder

```
tlhokomelo@DESKTOP-PI2VM19: /mnt/c/Users/thlok/Desktop
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ ls -la
total 288
drwxrwxrwx 1 root root  512 Nov  2 12:51 .
drwxrwxrwx 1 root root  512 Oct 21 10:40 ..
-rwxrwxrwx 1 root root 93457 Sep 15 16:48 Doc2.docx
-rwxrwxrwx 1 root root 94134 Sep 15 16:54 'Docker Desktop.docx'
-rwxrwxrwx 1 root root  2138 Sep 15 08:23 'Docker Desktop.lnk'
-rwxrwxrwx 1 root root 74409 Sep 15 16:52 'Docker Desktop.pdf'
drwxrwxrwx 1 root root  512 Feb 11 2022 Friday
drwxrwxrwx 1 root root  512 Feb 23 2022 'Git Practice 2'
-rwxrwxrwx 1 root root  2369 Feb 22 2022 'GitHub Desktop.lnk'
-rwxrwxrwx 1 root root  2350 Jan 11 2022 'Microsoft Edge.lnk'
-rwxrwxrwx 1 root root  2345 Oct 23 23:14 MongoDBCompass.lnk
drwxrwxrwx 1 root root  512 Feb 11 2022 NEO
drwxrwxrwx 1 root root  512 Feb 11 2022 'Part 2'
-rwxrwxrwx 1 root root  2185 Oct 18 11:38 Postman.lnk
-rwxrwxrwx 1 root root  2191 Sep 30 16:24 SceneBuilder.lnk
-rwxrwxrwx 1 root root  1402 Feb 23 2022 'Visual Studio Code.lnk'
-rwxrwxrwx 1 root root   282 Dec  3 2021 desktop.ini
-rwxrwxrwx 1 root root   384 Jan 28 2022 'new 1.txt'
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$
```

- Creating a file

```
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ touch test.txt
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ ls -la
total 288
drwxrwxrwx 1 root root  512 Nov  2 23:02 .
drwxrwxrwx 1 root root  512 Oct 21 10:40 ..
-rwxrwxrwx 1 root root 93457 Sep 15 16:48 Doc2.docx
-rwxrwxrwx 1 root root 94134 Sep 15 16:54 'Docker Desktop.docx'
-rwxrwxrwx 1 root root  2138 Sep 15 08:23 'Docker Desktop.lnk'
-rwxrwxrwx 1 root root 74409 Sep 15 16:52 'Docker Desktop.pdf'
drwxrwxrwx 1 root root  512 Feb 11 2022 Friday
drwxrwxrwx 1 root root  512 Feb 23 2022 'Git Practice 2'
-rwxrwxrwx 1 root root  2369 Feb 22 2022 'GitHub Desktop.lnk'
-rwxrwxrwx 1 root root  2350 Jan 11 2022 'Microsoft Edge.lnk'
-rwxrwxrwx 1 root root  2345 Oct 23 23:14 MongoDBCompass.lnk
drwxrwxrwx 1 root root  512 Feb 11 2022 NEO
drwxrwxrwx 1 root root  512 Feb 11 2022 'Part 2'
-rwxrwxrwx 1 root root  2185 Oct 18 11:38 Postman.lnk
-rwxrwxrwx 1 root root  2191 Sep 30 16:24 SceneBuilder.lnk
-rwxrwxrwx 1 root root  1402 Feb 23 2022 'Visual Studio Code.lnk'
-rwxrwxrwx 1 root root   282 Dec  3 2021 desktop.ini
-rwxrwxrwx 1 root root   384 Jan 28 2022 'new 1.txt'
-rwxrwxrwx 1 root root    0 Nov  2 23:02 test.txt
```

- Editing a file

```
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ nano test.txt
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ cat test.txt
Testing file
```

- Updating packages within Linux

```
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ sudo apt-get update
[sudo] password for tlhokomelo:
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [461 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:7 http://archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [101 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [372 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [695 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [159 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [10.8 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [409 kB]
Get:18 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [57.4 kB]
Get:19 http://archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [63.1 kB]
Get:20 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [743 kB]
Get:21 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [602 kB]
Get:22 http://archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [122 kB]
Get:23 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [4404 B]
Get:24 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [13.7 kB]
Get:25 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [4228 B]
Get:26 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [420 B]
Get:27 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [3008 B]
Get:28 http://archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [1432 B]
Get:29 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [272 B]
Get:30 http://archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:31 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [6752 B]
Get:32 http://archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [9360 B]
Get:33 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [356 B]
Get:34 http://archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [76.6 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [2408 B]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4192 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [900 B]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [228 B]
Fetched 24.6 MB in 20s (1212 kB/s)
Reading package lists... Done
```

- Upgrading packages within Linux

```
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
  curl dbus dbus-x11 libcurl3-gnutls libcurl4 libdbus-1-3 libntfs-3g89 libssl3 ntfs-3g openssl tzdata
11 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
10 standard LTS security updates
Need to get 5122 kB of archives.
After this operation, 13.3 kB disk space will be freed.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ntfs-3g amd64 1:2021.8.22-3ubuntu1.2 [408 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libntfs-3g89 amd64 1:2021.8.22-3ubuntu1.2 [161 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libssl3 amd64 3.0.2-0ubuntu1.7 [1899 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 dbus-x11 amd64 1.12.20-2ubuntu4.1 [23.0 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 dbus amd64 1.12.20-2ubuntu4.1 [158 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libdbus-1-3 amd64 1.12.20-2ubuntu4.1 [189 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 openssl amd64 3.0.2-0ubuntu1.7 [1183 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 tzdata all 2022e-0ubuntu0.22.04.0 [335 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 curl amd64 7.81.0-1ubuntu1.6 [194 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl4 amd64 7.81.0-1ubuntu1.6 [290 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl3-gnutls amd64 7.81.0-1ubuntu1.6 [283 kB]
Fetched 5122 kB in 29s (174 kB/s)
Preconfiguring packages ...
(Reading database ... 24075 files and directories currently installed.)
Preparing to unpack .../ntfs-3g_1%3a2021.8.22-3ubuntu1.2_amd64.deb ...
Unpacking ntfs-3g (1:2021.8.22-3ubuntu1.2) over (1:2021.8.22-3ubuntu1.1) ...
Preparing to unpack .../libntfs-3g89_1%3a2021.8.22-3ubuntu1.2_amd64.deb ...
Unpacking libntfs-3g89 (1:2021.8.22-3ubuntu1.2) over (1:2021.8.22-3ubuntu1.1) ...
Preparing to unpack .../libssl3_3.0.2-0ubuntu1.7_amd64.deb ...
Unpacking libssl3:amd64 (3.0.2-0ubuntu1.7) over (3.0.2-0ubuntu1.6) ...
Setting up libssl3:amd64 (3.0.2-0ubuntu1.7) ...
(Reading database ... 24075 files and directories currently installed.)
Preparing to unpack .../0-dbus-x11_1.12.20-2ubuntu4.1_amd64.deb ...
Unpacking dbus-x11 (1.12.20-2ubuntu4.1) over (1.12.20-2ubuntu4) ...
Preparing to unpack .../1-dbus_1.12.20-2ubuntu4.1_amd64.deb ...
Unpacking dbus (1.12.20-2ubuntu4.1) over (1.12.20-2ubuntu4) ...
Preparing to unpack .../2-libdbus-1-3_1.12.20-2ubuntu4.1_amd64.deb ...
Unpacking libdbus-1-3:amd64 (1.12.20-2ubuntu4.1) over (1.12.20-2ubuntu4) ...
Preparing to unpack .../3-openssl_3.0.2-0ubuntu1.7_amd64.deb ...
Unpacking openssl (3.0.2-0ubuntu1.7) over (3.0.2-0ubuntu1.6) ...
Preparing to unpack .../4-tzdata_2022e-0ubuntu0.22.04.0_all.deb ...
Unpacking tzdata (2022e-0ubuntu0.22.04.0) over (2022c-0ubuntu0.22.04.0) ...
Preparing to unpack .../5-curl_7.81.0-1ubuntu1.6_amd64.deb ...
Unpacking curl (7.81.0-1ubuntu1.6) over (7.81.0-1ubuntu1.4) ...
Preparing to unpack .../6-libcurl4_7.81.0-1ubuntu1.6_amd64.deb ...
Unpacking libcurl4:amd64 (7.81.0-1ubuntu1.6) over (7.81.0-1ubuntu1.4) ...
```

- Installing tree



```
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ sudo apt-install tree
sudo: apt-install: command not found
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ sudo apt
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ sudo apt-get install tree
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  tree
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 47.9 kB of archives.
After this operation, 116 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/universe amd64 tree amd64 2.0.2-1 [47.9 kB]
Fetched 47.9 kB in 1s (56.3 kB/s)
Selecting previously unselected package tree.
(Reading database ... 24075 files and directories currently installed.)
Preparing to unpack .../tree_2.0.2-1_amd64.deb ...
Unpacking tree (2.0.2-1) ...
Setting up tree (2.0.2-1) ...
Processing triggers for man-db (2.10.2-1) ...
```

- Using the tree command to view directory structure

```

thlokome1o@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ tree
.
├── Doc2.docx
├── Docker Desktop.docx
├── Docker Desktop.lnk
├── Docker Desktop.pdf
├── Friday
│   └── learning-forking
│       ├── README.md
│       ├── friday.css
│       ├── friday.html
│       └── friday.js
├── Git Practice 2
│   ├── thlokome1o
│   │   └── Neotlhok1
│   │       ├── Index.md
│   │       ├── README.md
│   │       ├── color.css
│   │       ├── index.html
│   │       ├── styles.css
│   │       └── today.html
│   └── x
│       ├── README.md
│       ├── index.html
│       └── style.css
├── GitHub Desktop.lnk
├── Microsoft Edge.lnk
├── MongoDBCompass.lnk
├── NEO
│   └── Neotlhok1
│       ├── Index.md
│       ├── README.md
│       ├── config.yml
│       ├── index.html
│       ├── styles.css
│       └── today.html
├── Part 2
│   └── partII
│       ├── README.md
│       └── partII.html
├── Postman.lnk
├── SceneBuilder.lnk
├── Visual Studio Code.lnk
├── desktop.ini
├── new 1.txt
└── test.txt

10 directories, 34 files
thlokome1o@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$

```

- Navigating to Linux home directory , editing it, creating an alias and navigating back to the newly created alias

```
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$  
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok/Desktop$ cd  
tlhokomelo@DESKTOP-PI2VM19:~$ nano ~/.bashrc  
tlhokomelo@DESKTOP-PI2VM19:~$ source ~/.bashrc  
tlhokomelo@DESKTOP-PI2VM19:~$ winhome  
tlhokomelo@DESKTOP-PI2VM19:/mnt/c/Users/thlok$
```

-