#section-2 Linux-administration-bootcamp

Linux distributions

1)understanding of Linux

2)working STRUCTURE of Linux O.S

3) Linux os= Linux distribution software

→kernel is the core.

→Linux kernel +apps = distro

4)popular Linux is a red hat and Ubuntu

 5)different types of Linux that we run in Windows go through it.

- **Linux mint**
- **Debian**
- **Mageia**
- **Fedora**
- **Slackware**

installing process on windows for linux:-

```
C:\Users\DELL>wsl --install
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 user
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: admin
adduser: The group `admin' already exists.
Enter new UNIX username: bhavik
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 22.04.3 LTS (GNU/Linux 5.15.133.1-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:      https://landscape.canonical.com
 * Support:         https://ubuntu.com/advantage
```

-->installing list of windows subsystems for linux (wsl) online tools.

```
C:\Users\DELL>wsl -l -o
The following is a list of valid distributions that can be installed.
Install using 'wsl.exe --install <Distro>'.

NAME                                    FRIENDLY NAME
Ubuntu                                  Ubuntu
Debian                                  Debian GNU/Linux
kali-linux                              Kali Linux Rolling
Ubuntu-18.04                            Ubuntu 18.04 LTS
Ubuntu-20.04                            Ubuntu 20.04 LTS
Ubuntu-22.04                            Ubuntu 22.04 LTS
OracleLinux_7_9                         Oracle Linux 7.9
OracleLinux_8_7                         Oracle Linux 8.7
OracleLinux_9_1                         Oracle Linux 9.1
openSUSE-Leap-15.5                      openSUSE Leap 15.5
SUSE-Linux-Enterprise-Server-15-SP4     SUSE Linux Enterprise Server 15 SP4
SUSE-Linux-Enterprise-15-SP5            SUSE Linux Enterprise 15 SP5
openSUSE-Tumbleweed                     openSUSE Tumbleweed
```

→if we want to download tools –d we use.

```
C:\Users\DELL>wsl --install -d kali-linux
Installing: Kali Linux Rolling
Kali Linux Rolling has been installed.
Launching Kali Linux Rolling...
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows use
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: bhavikk
New password:
Retype new password:
passwd: password updated successfully
Installation successful!
┌(Message from Kali developers)
│
│  This is a minimal installation of Kali Linux, you likely
│  want to install supplementary tools. Learn how:
│  ⊡ https://www.kali.org/docs/troubleshooting/common-minimum-setup/
│
└(Run: "touch ~/.hushlogin" to hide this message)
```