# **WSl Installation:**

(https://learn.microsoft.com/en-us/windows/wsl/install)

Developers can access the power of both Windows and Linux at the same time on a Windows machine. The Windows Subsystem for Linux (WSL) lets developers install a Linux distribution (such as Ubuntu, OpenSUSE, Kali, Debian, Arch Linux, etc) and use Linux applications, utilities, and Bash command-line tools directly on Windows, unmodified, without the overhead of a traditional virtual machine or dual boot setup.

### Install WSL Command

wsl -install

This command will enable the features necessary to run WSL and install the Ubuntu distribution of Linux. (This default distribution can be changed).

- \*\* The above command only works if WSL is not installed at all.
- \*\* Please try running `wsl --list -online` to see a list of available distros and run `wsl --install -d <DistroName>` to install a distro.

#### Checking list of available distributions

```
PS C:\Users\amish> wst --ist --online
The following is a list of valid distributions that can be installed.

Install using 'wsl.exe --install <Distro>'.

NAME

FRIENDLY NAME
Ubuntu
Ubuntu
Ubuntu
Ubuntu
Ubuntu
Ubuntu | Ubuntu
Ubuntu-18.04
Ubuntu-18.04
Ubuntu-20.04
Ubuntu 20.04
Ubuntu 21.04
Ubuntu-20.05
Ubuntu-20.06
U
```

### Install other distributions.

```
PS C:\Users\amish> wsl --install --install --install --install --install using 'wsl.exe --install distributions that can be installed.

Install using 'wsl.exe --install \( \text{Oistros'} \).

NAME

Ubuntu

Ubuntu

Ubuntu

Ubuntu

Ubuntu

Ubuntu

Ubuntu

Ubuntu

Ubuntu-18.04

Ubuntu-18.04

Ubuntu

Ubuntu-18.04

Ubuntu-29.04

Ubuntu-29.04

Ubuntu-22.04

Ubuntu-22.04

Ubuntu-22.04

Ubuntu-22.04

Ubuntu-22.04

Ubuntu

Ubu
```

# Change the default Linux distribution installed.

By default, the installed Linux distribution will be Ubuntu. This can be changed using the -d flag.

To change the distribution installed, enter: wsl --install -d <Distribution Name>.
 Replace <Distribution Name> with the name of the distribution you would like to install.

- To see a list of available Linux distributions available for download through the online store, enter: wsl --list --online or wsl -l -o.
- To install additional Linux distributions after the initial install, you may also use the command: wsl --install -d <Distribution Name>.

Once you have installed WSL, you will need to create a user account and password for your newly installed Linux distribution. See the <u>Best practices for setting up a WSL development environment</u> guide to learn more.

## Check which version of WSL you are running.

## **Checking Install WSL Version:**

wsl -v -l

```
| Note |
```

You can list your installed Linux distributions and check the version of WSL each is set to by entering the command: wsl -l -v in PowerShell or Windows Command Prompt.

```
wsl -1 -v
```

It will give you list of all install distribution, version and running status. Here In my case I have installed *two distribution which is* **Ubuntu** and **Ubuntu-22.04** and default distribution is **Ubuntu**.

```
PS C:\Users\amish> wsl - l → WRSION

NAME

**Ubuntu 22.04 Stopped 2

Ubuntu-22.04 Stopped 2

usl-vpnkit Running 2

docker-desktop
docker-desktop
docker-desktop
docker-desktop
dockers\amish>

Running 2

Running 2

Running 2
```

To set the default version to WSL 1 or WSL 2 when a new Linux distribution is installed, use the command: wsl --set-default-version <Version#>, replacing <Version#> with either 1 or 2.

To Set Defaults distribution: from Ubuntu to Ubuntu-22.04

Before executing the command check the list of install distribution in wsl. By entering in PowerShell/CMD: wsl -l -v

Initial It default distribution was set to Ubuntu. After running the command wsl-d Ubuntu-22.04 in terminal default distribution will be changed from **Ubuntu** to **Ubuntu-**22.04



To run a specific wsl distribution from within PowerShell or Windows Command Prompt without changing your default distribution, use the command: wsl -d <DistributionName>, replacing <DistributionName> with the name of the distribution you want to use.

### Run a specific Distribution:

State Before running a distribution.



#### Running a distribution

#### wsl -d Ubuntu-22.04

```
PS C:\Users\amish> wsl -d Ubuntu-22.04
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

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

This message is shown once a day. To disable it please create the
/home/amish/.hushlogin file.
```

### State after running a distribution.

