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

Install other distributions.

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 [Best practices for setting up a WSL development environment](#) guide to learn more.

Check which version of WSL you are running.

Checking Install WSL Version:

```
wsl -v -l
```


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 -l -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.**

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 the default Linux distribution used with the `wsl` command, enter: `wsl -s <DistributionName>` or `wsl --set-default <DistributionName>`, replacing `<DistributionName>` with the name of the Linux distribution you would like to use. For example, from PowerShell/CMD, enter: `wsl -s Debian` to set the default distribution to Debian.

To Set Defaults distribution: *from **Ubuntu** to **Ubuntu-22.04***

```
wsl -s 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
```


State after running a distribution.