

WSL Installation & Chocolatey Setup Documentation

1. Overview

Windows Subsystem for Linux (WSL) allows you to run a full Linux environment directly on Windows without virtual machines or dual-booting.

This document covers:

- Enabling WSL on Windows
- Handling `wsl --install` failures
- Installing Ubuntu 22.04 LTS manually via Microsoft Store
- Installing Chocolatey (Windows package manager)

2. Enable WSL on Windows

2.1 Open PowerShell as Administrator

Press **Start** → search “**PowerShell**” → right-click → **Run as administrator**.

2.2 Enable required Windows features

Run:

```
dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart
```

```
dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart
```

2.3 Restart the PC

Reboot for the changes to take effect.

3. Update WSL Components

After the reboot:

```
wsl --update
```

If successful, you will see:

Windows Subsystem for Linux has been installed.



4. When **wsl --install** or **wsl --list --online** Fails

If your PC cannot reach Microsoft's WSL distribution servers, you will see errors like:

Failed to fetch the list distribution...
Error code: Wsl/0x80072ee2

This means the online installer cannot download distros.

In such cases:

-  WSL engine is installed
-  Linux distributions must be installed manually

5. Installing Ubuntu 22.04 LTS (Manual Method – Microsoft Store)

Since online installation timed out, Ubuntu was installed through the Microsoft Store.

Steps:

1. Open **Microsoft Store**
2. Search for **Ubuntu 22.04 LTS**
3. Click **Get / Install**
4. After installation, click **Open**
5. The terminal will launch and prompt you to create:
 - Linux username
 - Linux password

This completes the distro setup.

6. Launching WSL After Installation

You can open your Linux environment using any of these:

6.1 Start Menu

Search for **Ubuntu 22.04 LTS** and click it.

6.2 PowerShell or Command Prompt

`wsl`

Or specify the distro:

`wsl -d Ubuntu`

6.3 Windows Terminal

Ubuntu will appear in the dropdown list.

7. Verify WSL Installation

Run:

```
wsl --list --verbose
```

Expected output example:

NAME	STATE	VERSION
* Ubuntu	Running	2

This confirms WSL is working properly.

8. Installing Chocolatey (Windows Package Manager)

Chocolatey allows automated installation of Windows software.

8.1 Open PowerShell as Administrator

8.2 Set execution policy for the process

```
Set-ExecutionPolicy Bypass -Scope Process -Force
```

8.3 Install Chocolatey

Use the official installation command:

```
Invoke-Expression ((New-Object  
System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))
```

8.4 Verify installation

```
choco --version
```

You should see a version number (e.g., **2.x.x**).

9. Installing Software with Chocolatey (Examples)

```
choco install git -y  
choco install vscode -y  
choco install googlechrome -y  
choco install 7zip -y
```