

DevOps for SWE — Environment & Setup

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Supported OS :

- **Windows 11 with WSL 2 (Ubuntu 24.04)** — supported and recommended on Windows.
- macOS or native Linux — supported.
- **Native Windows without WSL** — out of scope for support.

[△] **Note1:** This guide assumes a fresh setup. If you already have conda, Java, or Spark installed, ensure versions match requirements.

[△] **Note2:** Another advice is to work on vscode only and not another IDE (PyCharm, Jupyter Notebook, etc.) to avoid environment issues.

0) TL;DR (first run)

1. **Windows only:** Install **WSL 2** and **Ubuntu 24.04** (PowerShell *Admin*).
2. Open **VS Code** in WSL, open a terminal in **Ubuntu-24.04**.

1) Windows 11 — Install WSL 2 and Ubuntu 24.04

Open **PowerShell as Administrator** and run:

```
wsld --install
wsld --list --online
wsld --install -d Ubuntu-24.04
wsld --set-default-version 2
wsld --status
wsld --update
wsld -l -v
```

Reboot if prompted. Launch **Ubuntu 24.04** from Start Menu and create your Linux user.

Reference: Microsoft **WSL install** and **basic commands**.

2) VS Code + WSL

Install **Visual Studio Code** (if first time) on Windows. Next, open **Visual Studio Code** and install **WSL extension**.

Next, connect either by running `code .` from your Ubuntu terminal in **WSL**, or just run VS Code and click terminal → New Terminal and select **Ubuntu-24.04** in the dropdown (launch profile).

You could also set a default profile in settings for future terminals by choosing **Ubuntu-24.04** as the default one.

Reference: VS Code **Developing in WSL** and tutorial.
