

Neovim + LazyVim + Python + vimtex on Ubuntu: Student Setup Guide

Step 1: Install Prerequisites

1. Open a terminal and run:
`sudo apt update`
`sudo apt install git curl unzip build-essential ripgrep fd-find`
2. Also install LaTeX:
`sudo apt install texlive-full`

Step 2: Install Neovim (Latest Version)

1. Download and extract Neovim AppImage:
`curl -LO https://github.com/neovim/neovim/releases/latest/download/nvim.appimage`
`chmod u+x nvim.appimage`
`sudo mv nvim.appimage /usr/local/bin/nvim`

Step 3: Install LazyVim Starter

1. Backup any old config:
`mv ~/.config/nvim ~/.config/nvim.backup`
2. Clone LazyVim starter template:
`git clone https://github.com/LazyVim/starter ~/.config/nvim`
`cd ~/.config/nvim && rm -rf .git`

Step 4: Launch Neovim to Install Plugins

1. Run Neovim:
`nvim`
2. LazyVim will auto-install plugins on first launch.
3. Restart Neovim after installation completes.

Step 5: Add vimtex Plugin

1. Create a file: `~/.config/nvim/lua/plugins/vimtex.lua`
2. Add the following:

```
return {  
  'lervag/vimtex',  
  ft = 'tex',  
  config = function()  
    vim.g.vimtex_view_method = 'zathura'  
    vim.g.vimtex_compiler_method = 'latexmk'  
  end  
}
```

Step 6: Install Python and LSP Support

1. Install Python and pip if not already installed:
`sudo apt install python3 python3-pip`
2. Install pynvim and the Python LSP:
`pip3 install pynvim`
`pip3 install 'python-lsp-server[all]'`

Step 7: Enable Python LSP in LazyVim

1. Create or edit: `~/.config/nvim/lua/lsp/config/pylsp.lua`

2. Add:

```
return {  
  settings = {},  
}
```

Final Test

- Open a `.py` or `.tex` file in Neovim
- For LaTeX: use `\ll` to compile with vimtex
- For Python: test LSP autocompletion and diagnostics