

How can I setup lazy vim to format on save for python projects. I want it to use ruff / uv. Ruff will be installed in the projects locally .venv directory.

To set up LazyVim for Python formatting on save using Ruff/UV installed in a project's .venv, follow these steps:

1. Enable Python Extras

Activate LazyVim's pre-configured Python tools:

```
-- Add to your LazyVim config (lua/config/lazy.lua)
{ "LazyVim/LazyVim", import = "lazyvim.plugins" },
{ import = "lazyvim.plugins.extras.lang.python" }, -- Enables Ruff-LSP, pyright, etc.
```

2. Install Ruff Locally

Use UV (or pip) to install Ruff in your project's virtual environment:

```
# In your project directory
source .venv/bin/activate # Activate virtual env
uv install ruff # or `pip install ruff`
```

3. Configure Ruff as the Formatter

Update conform.nvim to prioritize Ruff for Python:

```
-- Add to lua/config/plugins/formatting.lua (or similar)
require("conform").setup({
  formatters_by_ft = {
    python = { "ruff_format" }, -- Uses Ruff for formatting
    },
})
```

4. Ensure Virtual Environment Detection

Install veny-selector, nyim to auto-detect, veny:

```
-- Add to your LazyVim plugins
{
   "linux-cultist/venv-selector.nvim",
   opts = {
```

```
auto_detect = true, -- Automatically find .venv
},
```

5. Enable Format-on-Save

Add this to your LazyVim config:

```
-- lua/config/autocmds.lua
vim.api.nvim_create_autocmd("BufWritePre", {
  pattern = "*.py",
  callback = function(args)
    require("conform").format({ bufnr = args.buf, async = false })
  end,
})
```

Key Details:

- **Ruff Path Handling**: The virtual environment detection ensures Ruff from .venv/bin is prioritized.
- Mason Integration: If using Ruff globally (not recommended), install ruff-1sp via : Mason.
- **Troubleshooting**: Verify Ruff is detected with :ConformInfo and check :LspInfo for active LSPs [1] [2].

This setup avoids global Ruff installations, ensuring project-specific formatting. For advanced configuration (e.g., pyproject.toml), see <u>Ruff's documentation</u>[3].



- 1. https://github.com/LazyVim/LazyVim/discussions/2810
- 2. https://lazyvim.github.io/plugins/formatting
- 3. https://docs.astral.sh/ruff/editors/setup/