Python via Docker

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Requirements

It is possible to run Python scripts in a Docker Container within VS Code without having a local Python setup, all that is needed is:

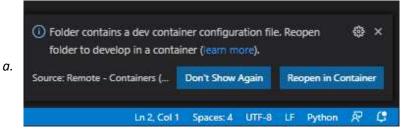
- Visual Studio Code: https://code.visualstudio.com/download (56MB download)
- Docker Desktop: https://www.docker.com/get-started (1 GB download)

Instructions

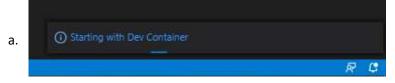
- 1. Open the folder with VS Code via File > Open Folder (or right-click in the Explorer > Open with Code)
- 2. Install the recommended extension in your VS Code (pop-up in lower right corner) by clicking "Install All"



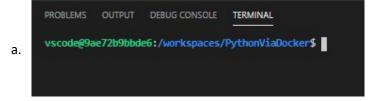
3. click "Reopen in Container" (pop-up in lower right corner)



- b. if you don't have Docker, it will say Docker is required. Click to follow the link to the Docker site (www.docker.com) and see the instructions below under "Troubleshooting"
- c. if you get an error from Docker, see below under "Troubleshooting"
- 4. Docker will start building an image (if it is the first time)



- b. This takes a few minutes the first time, subsequent starts are faster
- c. When you are asked to share your drive, then share it otherwise your local folder will not be available inside the container
- 5. Docker presents a Terminal window (it's a Linux shell)



- 6. Open the Python file and click F5 to run it
- 7. When you are done close VS Code (or close the folder via File > Close Folder)

Troubleshooting

Docker not installed

If you don't have Docker, VS Code will say Docker is required.

- 1. Click to follow the link to the Docker site (www.docker.com)
- 2. Click "Get Started" (upper right corner)
- 3. Download and install "Docker Desktop" for your operating system
- 4. Run the installer
- 5. Check "Enable required Windows Features"
- 6. Uncheck "Use Windows containers instead of (...)" if it isn't already and click "ok"
- 7. Restart your computer
- 8. Then resume from the top of the instructions (step#1)

Docker returned an error. Make sure the Docker daemon is running

If you get an error Docker returned an error. Make sure the Docker daemon is running:

- 1. Wait until Docker has restarted
 - a. the icon looks like a whale with shipping containers on its back, it's in the SysTray, next to the clock
- 2. Check that the service is running (it can take a minute after booting before it is done launching)
- 3. Reinstall Docker if needs be to get it started
- 4. Then resume from the top of the instructions (step#1)