Tools of the trade III

Joachim Vandekerckhove Winter 2025

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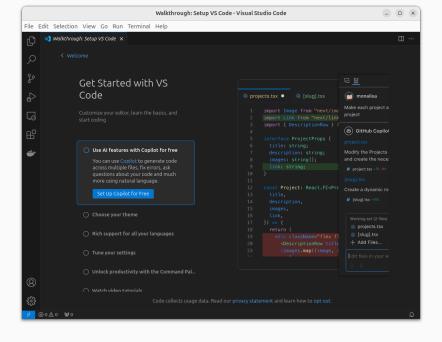
Connecting VSCode to your Docker container

This guide will help you set up Visual Studio Code (VSCode) to connect to your running Docker container. This will allow you to edit and execute code inside the container seamlessly.

Prerequisites

Before you begin, ensure that you have:

- 1. A running Docker container with SSH enabled.
 - Follow the steps in "Start the class Docker container"
- 2. **VSCode** installed on your computer.
 - Download it from Visual Studio Code.
 - Install the "Remote SSH" and "Remote Containers" extensions from the Extensions Marketplace.

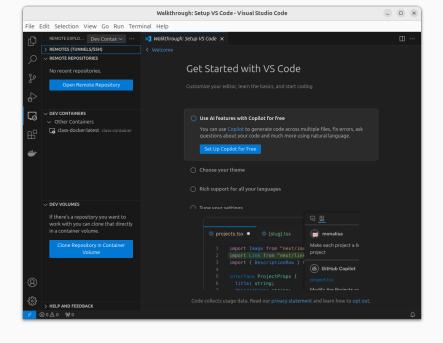


Connect using the Remote - Containers Extension

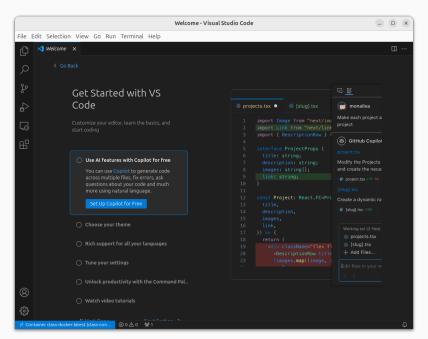
You can use the "Remote - Containers" extension to connect directly to the running container:

1. Attach to the container:

- Press Ctrl+Shift+P (or Cmd+Shift+P on Mac) to open the command palette.
- Type Remote-Containers: Attach to Running Container and select it.
- Choose class-container from the list.



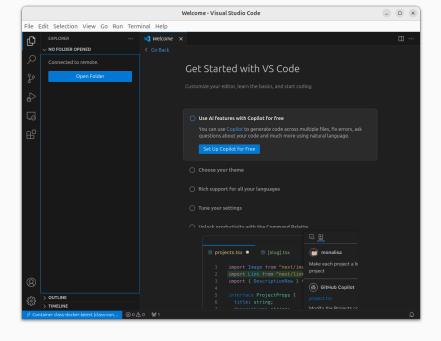
A window will pop up with a different message in the bottom left.

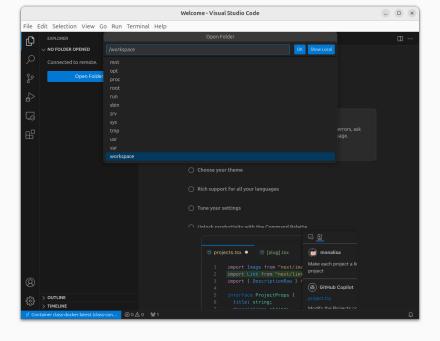


Connect using the Remote - Containers Extension

2. Open the workspace:

- VSCode will open a new window where you can find the container's /workspace directory.
- You can now edit, debug, and execute code directly inside the container.
- You will have to install other extensions as needed, such as the Python one and the Jupyter one.





Test your setup

1. Create a Python file:

• Inside the container, create a file named test.py:

```
print("Hello from Docker!")
```

2. Run the file:

• Use the integrated terminal in VSCode to run:

```
python3 test.py
```

Verify that the output is Hello from Docker!.

Troubleshooting

1. No container found:

• Verify the container is running using docker ps.

2. VSCode cannot attach to container:

- Check that the "Remote Containers" extension is installed.
- Ensure Docker Desktop is running.

3. Python not found:

Verify Python is installed in the container:

python3 --version

Summary

This setup allows you to use a full-featured development environment while keeping your code and dependencies isolated in a container.

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