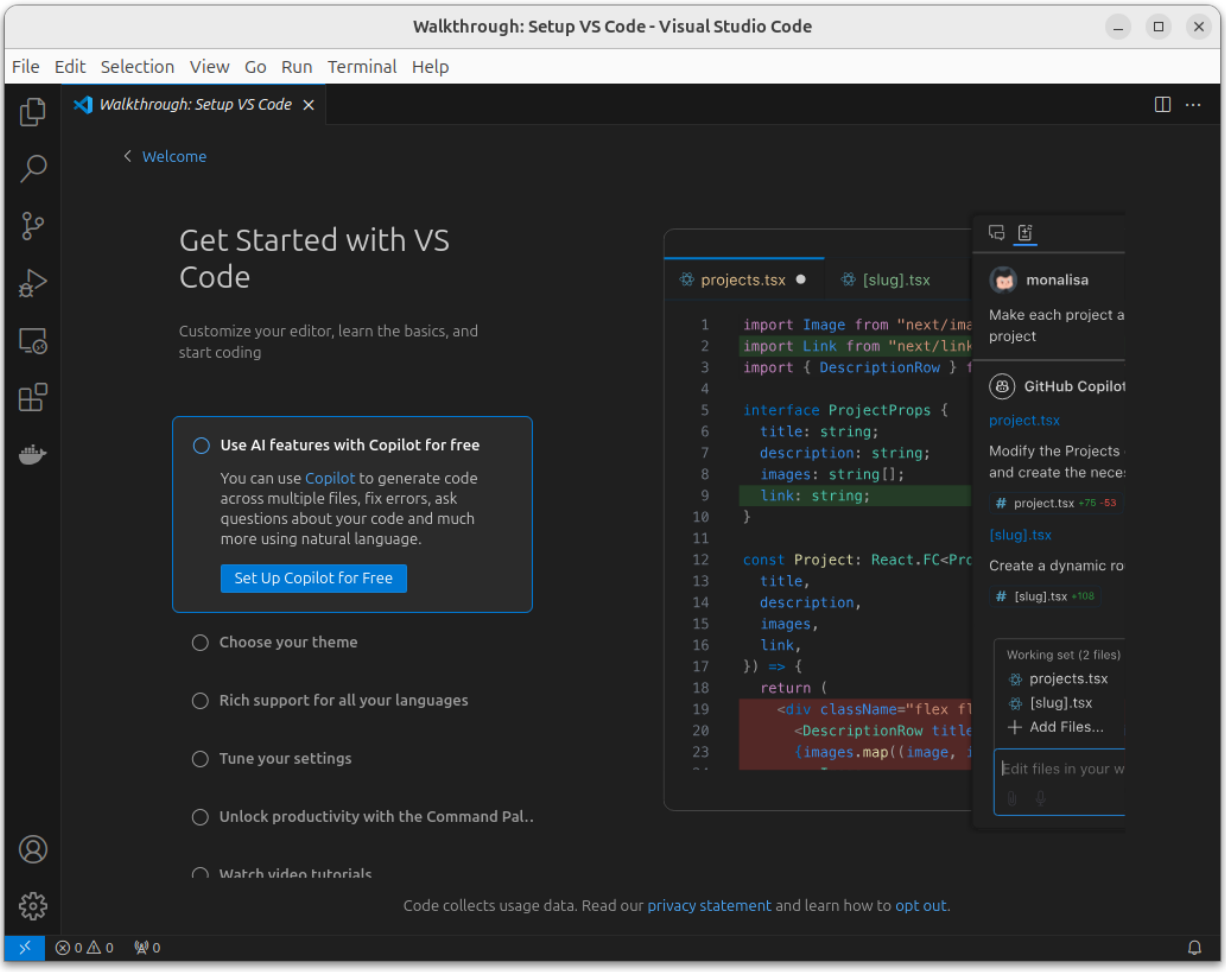
Connecting VSCode to your Docker container

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:

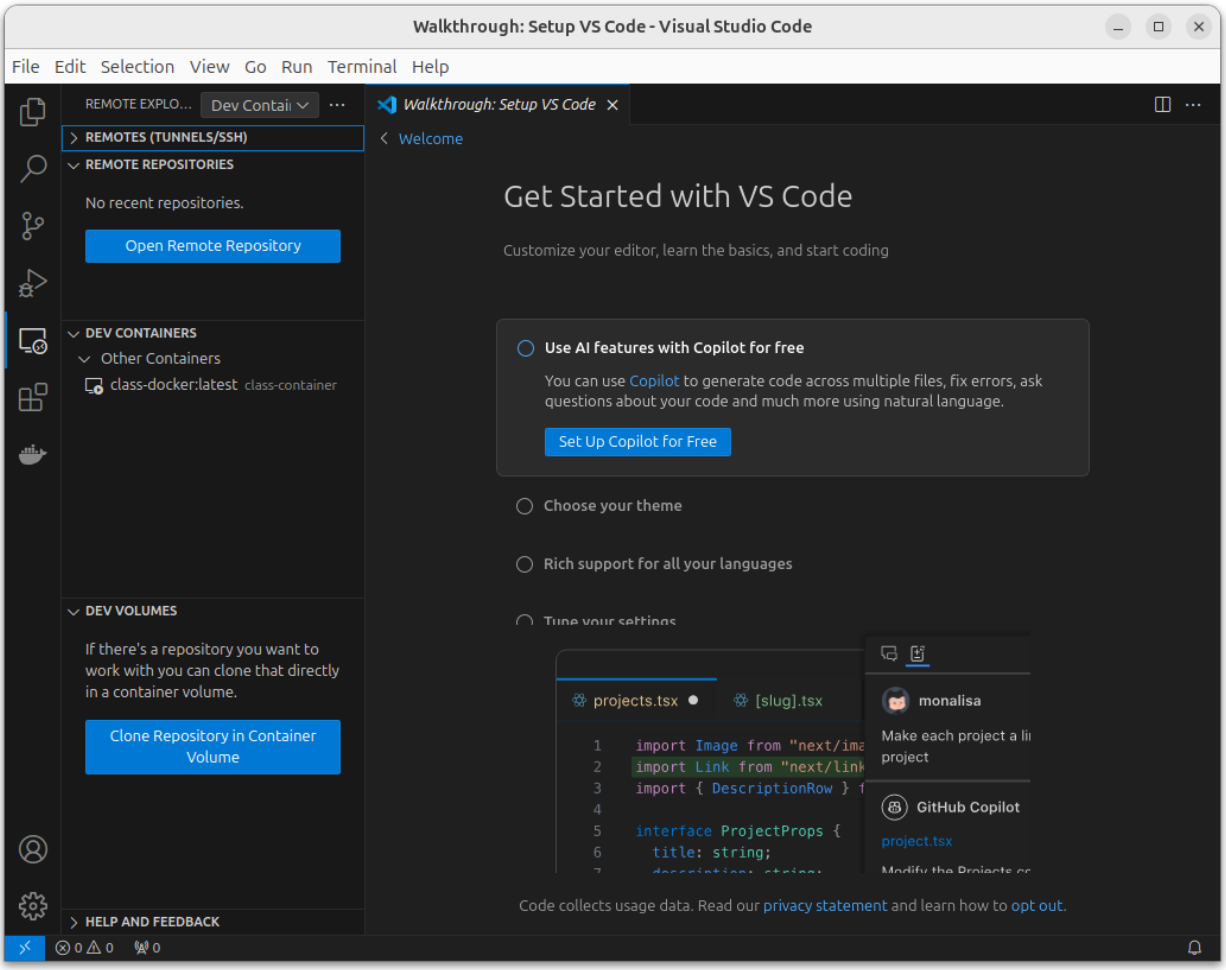
1. **VSCode** installed on your computer.
   - Download it from Visual Studio Code.
   - Install the "Remote - SSH" and "Remote - Containers" extensions from the Extensions Marketplace.
2. A **running Docker container** with SSH enabled.
   - Follow the steps in the "Start the class Docker container"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



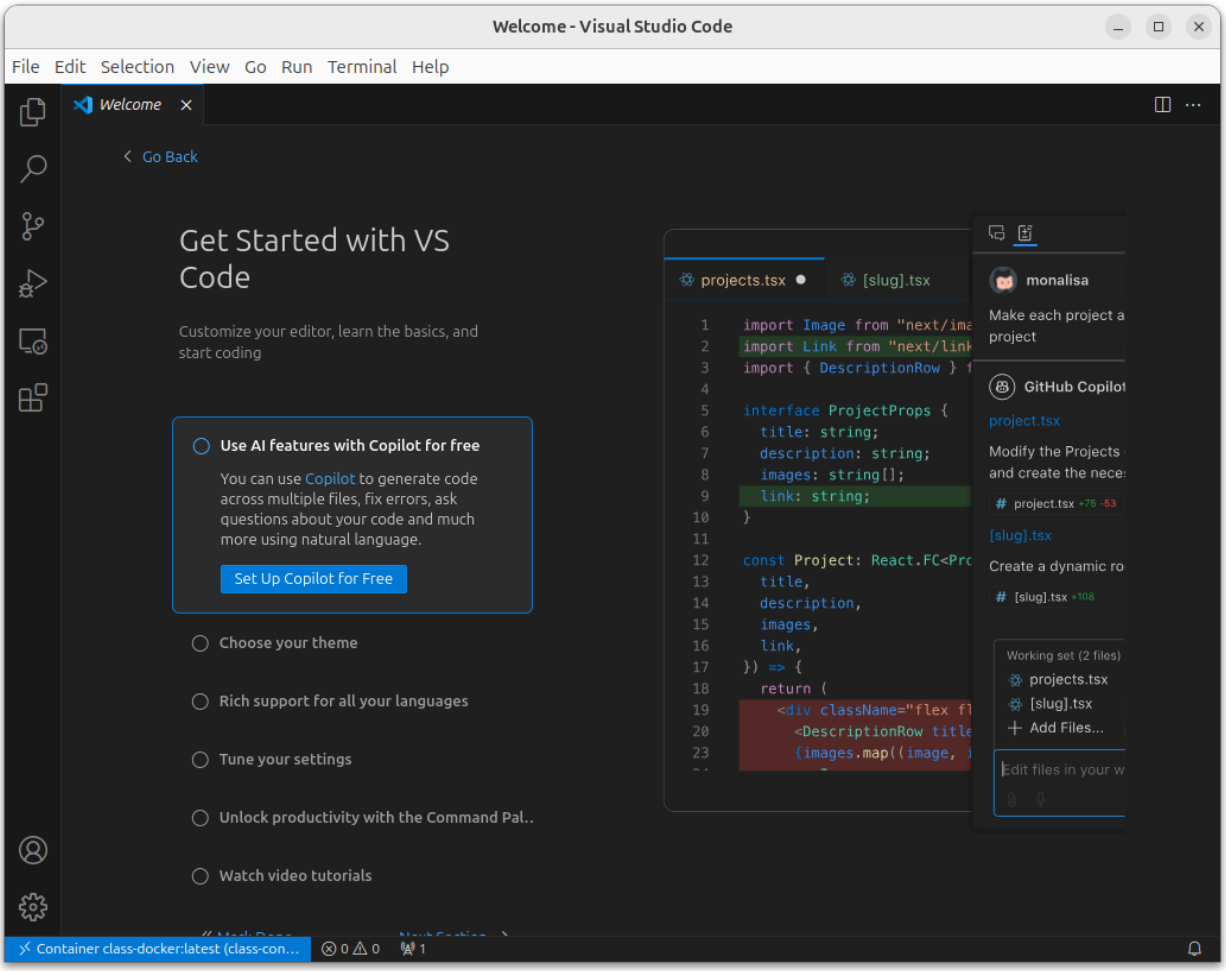
Connect using the Remote - Containers Extension

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

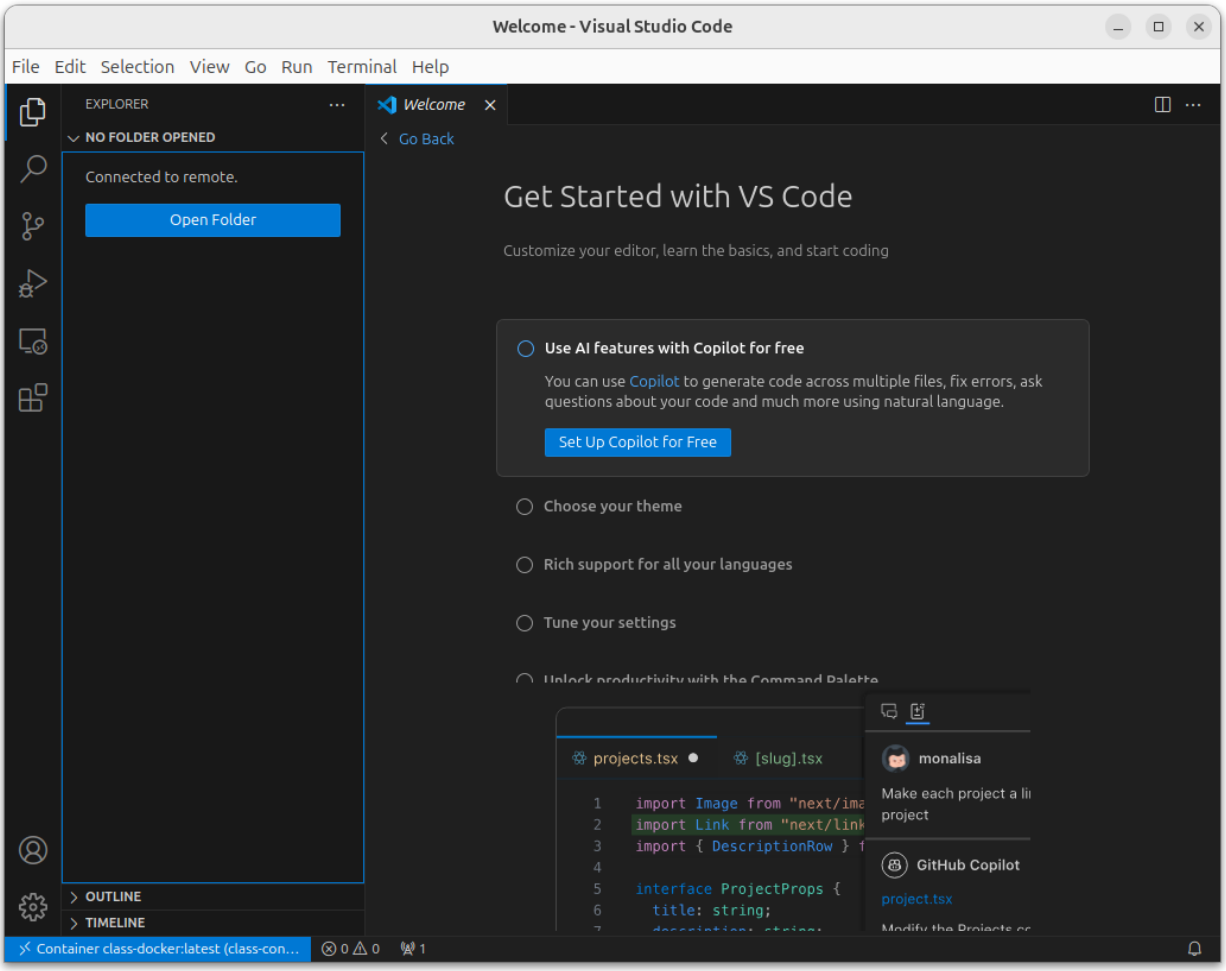
1. **Attach to the container**:
    - Press `Ctrl+Shift+P` (or `Cmd+Shift+P` on Mac) to open the command palette.
    - Type `Remote-Containers: Attach to Running Container` and select it.
    - Choose `class-container` from the list.

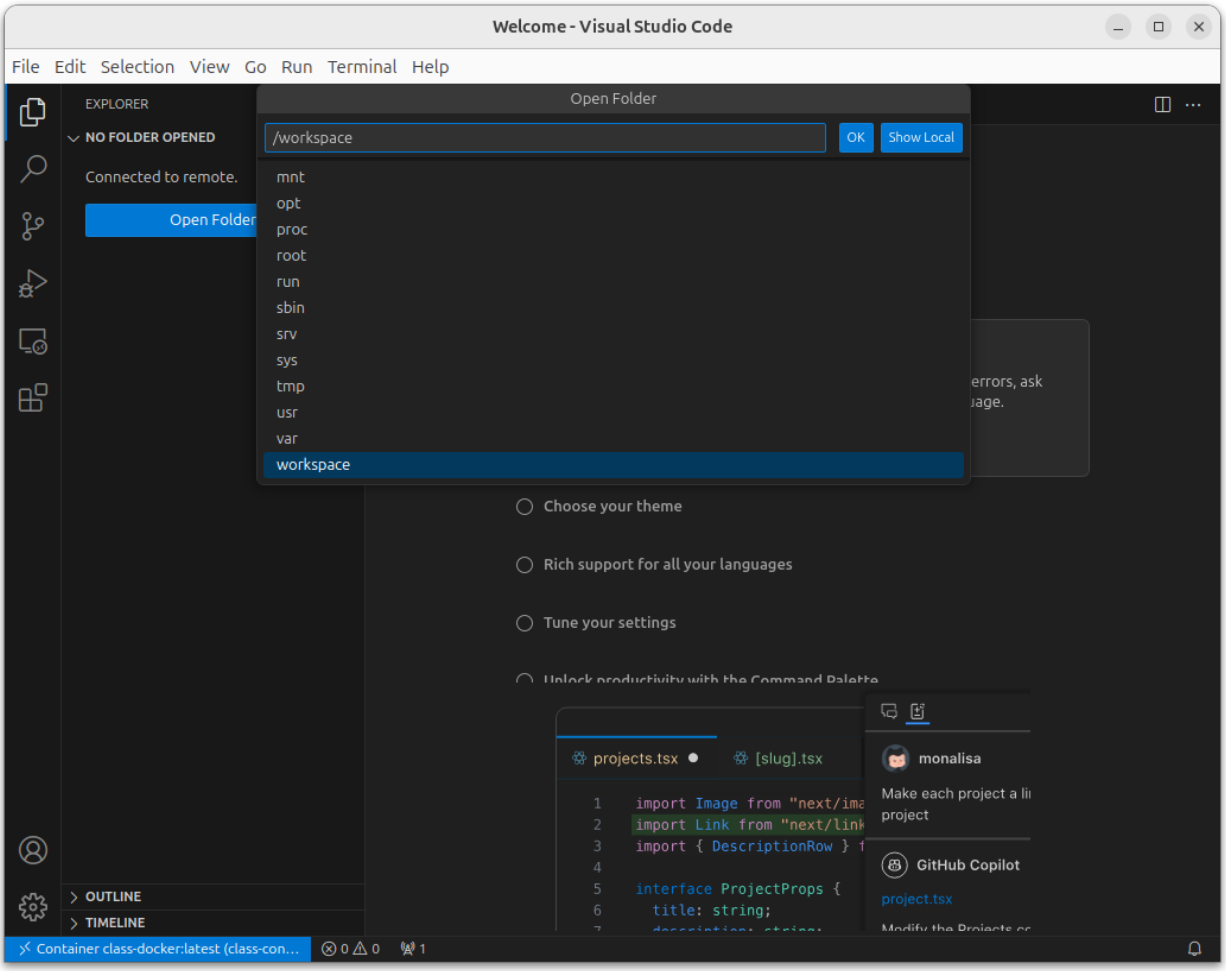


A new window will pop up with a different message in the bottom left.



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.


Welcome - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
NO FOLDER OPENED
Connected to remote.
Open Folder
OUTLINE
TIMELINE
Welcome
Go Back
Get Started with VS Code
Customize your editor, learn the basics, and start coding
Use AI features with Copilot for free
You can use Copilot to generate code across multiple files, fix errors, ask questions about your code and much more using natural language.
Set Up Copilot for Free
Choose your theme
Rich support for all your languages
Tune your settings
projects.tsx
[slug].tsx
import Image from "next/ima
import Link from "next/link
import { DescriptionRow } f
interface ProjectProps {
title: string;
monalisa
Make each project a li
project
GitHub Copilot
project.tsx
Container class-docker:latest (class-con...



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.

Previous: Start the class Docker container

Next: What are SSH keys?