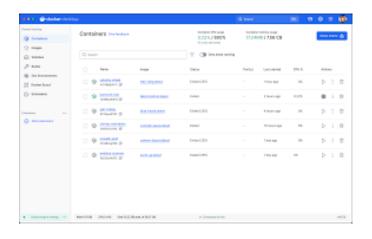
<u>Docker Containers for Simple</u> <u>Python Scripts Description</u>

Step 1: Install Docker

First, ensure that Docker is installed on your system. You can download and install Docker from Docker's official website.



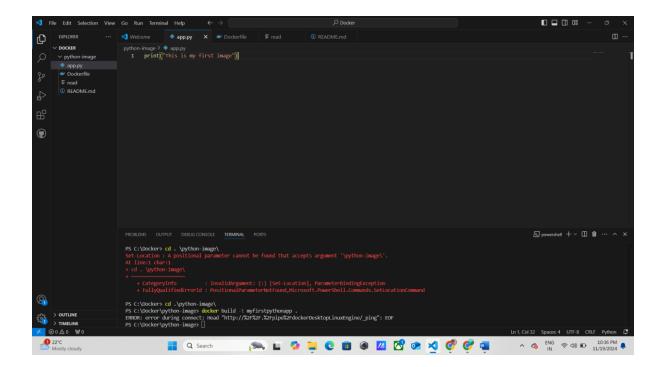


2. Write the Python Script

Create a simple Python script. For example, create a file named app.py:

app.py

print("Hello from inside a Docker container!")



3. Create a Dockerfile

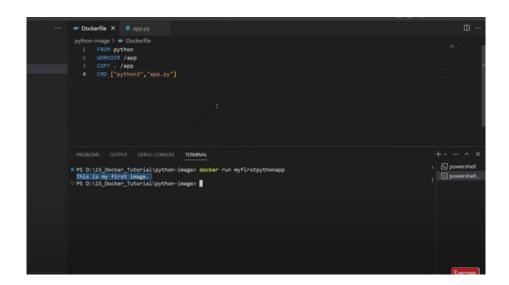
The Dockerfile specifies the instructions to build the Docker image. Create a file named Dockerfile in the same directory as app.py:

Use the official Python base image FROM python:3.9-slim

Set the working directory inside the container WORKDIR /app

Copy the Python script into the container COPY app.py .

Set the default command to run the Python script CMD ["python", "app.py"]

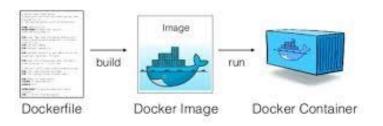


4.Build the Docker Image

Use the following command to build the Docker image. Run this command in the terminal from the directory containing the Dockerfile:

bash

docker build -t python-docker-demo .



5. Run the Docker Container

After building the image, run a container from it:

docker run python-docker-demo

Verify the Docker Image and Container

docker images

• List running containers:

docker ps -a

6.Clean Up (Optional)

Stop running containers:

docker stop <container_id>

Remove containers:

docker rm <container_id>

7. Run the Docker Container

Once the image is built, you can run a container using the following command. Replace your_image_name with the name of your Docker image:

