

The screenshot shows a VS Code editor with a Python file named `index.py` open. The code is a simple Flask application that returns a message when accessed via a web browser. The terminal window at the bottom shows the output of running the application, indicating it is running on `http://127.0.0.1:3000` and listening on `0.0.0.0:3000`. It also shows the debugger is active and the application is running on `http://192.168.1.90:3000`.

```

1  from flask import Flask
2  helloworld = Flask(__name__)
3  @helloworld.route("/")
4  def run():
5      return({"message": "Hey there python"})
6
7  if __name__ == "__main__":
8      helloworld.run(host="0.0.0.0", port=int("3000"), debug=True)

```

Terminal Output:

```

* Running on http://127.0.0.1:3000
* Running on http://192.168.1.90:3000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active
* Debugger PIN: 807-560-671
192.168.1.90 - - [09/May/2023 09:23:36] "GET / HTTP/1.1" 200 -
192.168.1.90 - - [09/May/2023 09:23:36] "GET /favicon.ico HTTP/1.1" 404 -

```

```
index.py Dockerfile X requirements.txt
1 FROM python:3-alpine3.15
2 WORKDIR /app
3 COPY . /app
4 RUN pip install -r requirements.txt
5 EXPOSE 3000
6 CMD python ./index.py |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE: MESSAGES

```
PS C:\Users\User\Desktop\docker> docker --version
Docker version 23.0.5, build bc4487a
PS C:\Users\User\Desktop\docker> docker build -t .
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage: docker buildx build [OPTIONS] PATH | URL | -

Start a build
PS C:\Users\User\Desktop\docker> ls

Directory: C:\Users\User\Desktop\docker
```

```

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    SQL CONSOLE: MESSAGES
powershell + v [ ] [ ] ... v

PS C:\Users\User\Desktop\Docker> docker --version
Docker version 23.0.5, build bc4d87a
PS C:\Users\User\Desktop\Docker> docker build -t .
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage:  docker buildx build [OPTIONS] PATH | URL | -

Start a build
PS C:\Users\User\Desktop\Docker> ls

Directory: C:\Users\User\Desktop\Docker


Mode                LastWriteTime         Length Name
----                -
d-----          09-05-2023   01:34             .venv
d-----          09-05-2023   02:00        flask-app
d-----          09-05-2023   02:00             venv
-a-----          09-05-2023   01:35              Dockerfile
-a-----          09-05-2023   01:49           233 index.py
-a-----          09-05-2023   02:02           268 requirements.txt

PS C:\Users\User\Desktop\Docker> docker build -t .
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage:  docker buildx build [OPTIONS] PATH | URL | -

Start a build
PS C:\Users\User\Desktop\Docker> docker build -t pythonimage:latest .
[+] Building 0.2s (2/2) FINISHED
=> [internal] load .dockerignore                                0.1s
=> => transferring context: 2B                                   0.0s

```

Directory: C:\Users\User\Desktop\Docke

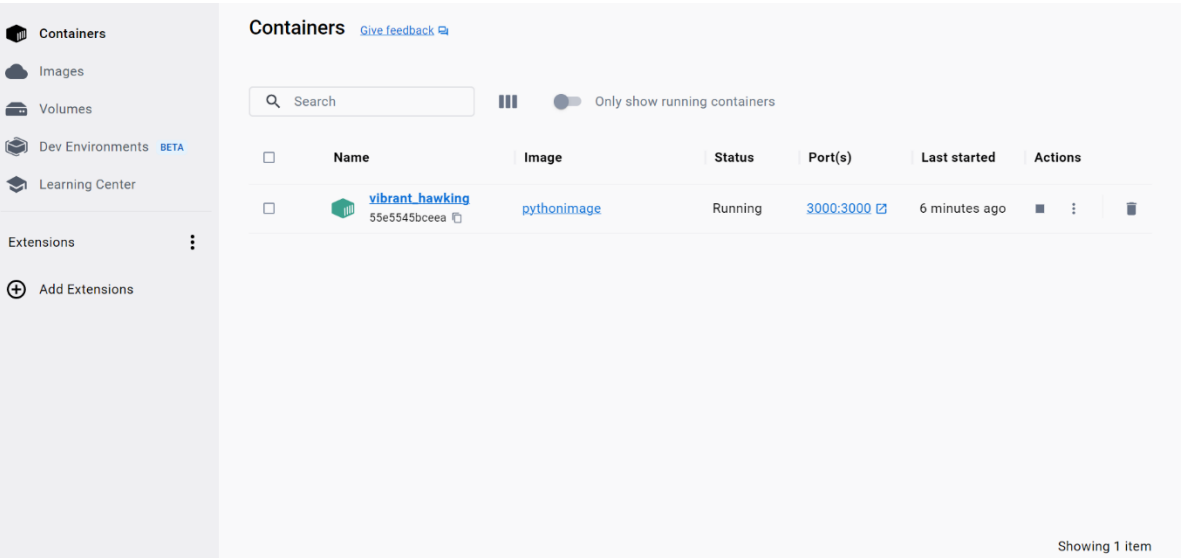
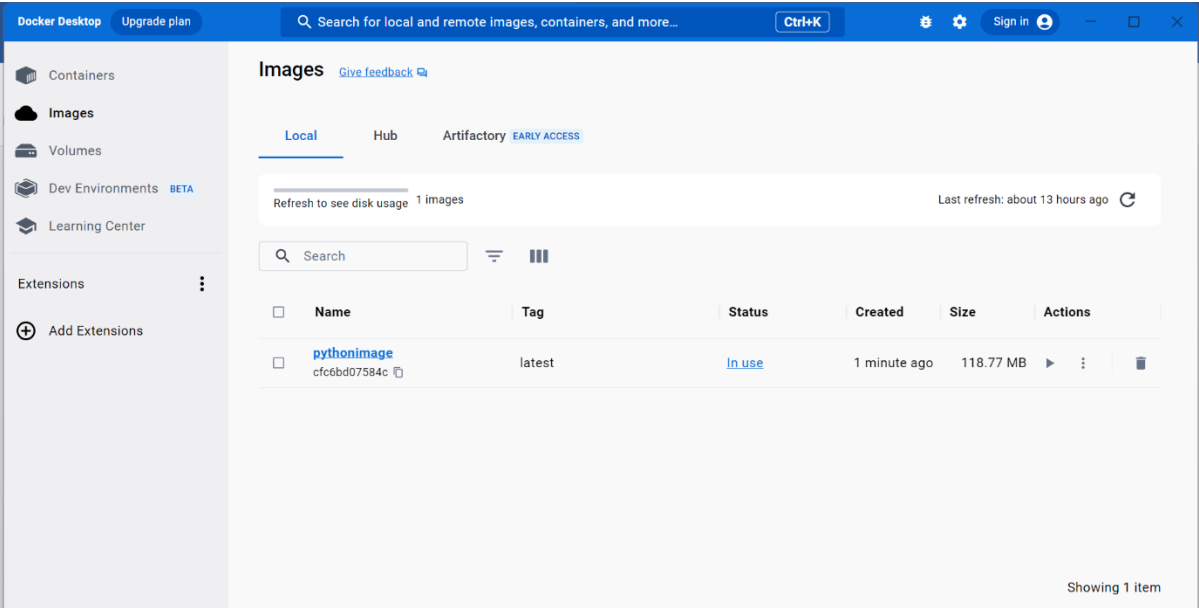
```
PS C:\Users\User\Desktop\Docke> ^C
PS C:\Users\User\Desktop\Docke> ls
```

Directory: C:\Users\User\Desktop\Docke

```
Mode                LastWriteTime         Length Name
-----
d-----          09-05-2023    01:34             .env
d-----          09-05-2023    02:00        flask-app
d-----          09-05-2023    02:00             venv
-a-----          09-05-2023    12:13        125 Dockerfile
-a-----          09-05-2023    01:49        233 index.py
-a-----          09-05-2023    02:02        268 requirements.txt
```

```
PS C:\Users\User\Desktop\Docker> docker build -t pythonimage:latest .
[*] Building 19.9s (9/9) FINISHED
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 162B
=> exporting layers
=> writing image sha256:cfc6bd07584c9c3cf85a954aa9f3b0e5fd8afd65984007f3f9d892f51cc372
=> naming to docker.io/library/pythonimage:latest
PS C:\Users\User\Desktop\Docker> docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
pythonimage   latest    cfc6bd07584c  8 seconds ago  119MB
PS C:\Users\User\Desktop\Docker> docker run -dp 3800:3800 pythonimage
5Se5545bceea28bf7f3c8f52cd4ad9af92c8154e0b7cca592c8bd4ef7b5e6
PS C:\Users\User\Desktop\Docker>
```

A screenshot of the Visual Studio Code editor interface. The Explorer sidebar on the left shows the file structure with 'requirements.txt' selected. The main editor area displays the contents of 'requirements.txt', which contains a single line: 'Flask'. The Dockerfile is also visible in the background, showing the 'FROM python:3.7.4-slim' and 'COPY requirements.txt /app/' commands.



```
{"message": "Hey there python"}
```