

```
ptashko@MacBook-Air--Artem PythonProgramms % nano hello.py
ptashko@MacBook-Air--Artem PythonProgramms % ls
PythonMikov1    hello.py          individual_OSM
```

```
ptashko@MacBook-Air--Artem PythonProgramms % python3 hello.py
Hello, Docker!
```

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```
FROM python:3.9-slim

WORKDIR /hello

COPY hello.py .

CMD ["python3", "hello.py"]
```

```
ptashko@MacBook-Air--Artem PythonProgramms % docker build -t my-hello .
[+] Building 16.1s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 157B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/3] FROM docker.io/library/python:3.9-slim@sha256:cf0704507972b63c9b20382dd6f05248572d6b25961410305f96479bf2e8a23c
=> => resolve docker.io/library/python:3.9-slim@sha256:cf0704507972b63c9b20382dd6f05248572d6b25961410305f96479bf2e8a23c
=> => sha256:b2feff975e6dd2ebaf182772fb9ee26274648387b061e821e0bb5026735dd094 30.14MB / 30.14MB
=> => sha256:7afa0063f160afa42f78751114a5b71a42031ad5f44402cd2aa575f5faac0196 250B / 250B
=> => sha256:f19e84d28ab99b18b92c718b203344458726adf4aec2e27c23895af832551e2 1.27MB / 1.27MB
=> => sha256:811ef0818b43db6faf0fee7b5d5f923d0e9edaaa6d37994f07a7dbaa3f59a1 13.31MB / 13.31MB
=> => extracting sha256:b2feff975e6dd2ebaf182772fb9ee26274648387b061e821e0bb5026735dd094
=> => extracting sha256:f19e84d28ab99b18b92c718b203344458726adf4aec2e27c23895af832551e2
=> => extracting sha256:811ef0818b43db6faf0fee7b5d5f923d0e9edaaa6d37994f07a7dbaa3f59a1
=> => extracting sha256:7afa0063f160afa42f78751114a5b71a42031ad5f44402cd2aa575f5faac0196
=> [internal] load build context
=> => transferring context: 96B
=> [2/3] WORKDIR /hello
=> [3/3] COPY hello.py .
=> exporting to image
=> => exporting layers
=> => exporting manifest sha256:0117db1a55c9e3e8bb5a0fe5f6ad5ed19eb18e8dc2e2b951320ce88506059f3a
=> => exporting config sha256:25eb311f480fe051c8c5b3bfdc1f98e5bf60e58101e21c4646097d6aed0f51c8
=> => exporting attestation manifest sha256:af93d8350f5283dc8ad2bbc6e00bc61a0960843d145a322e0a43aa08c07e3bd3
=> => exporting manifest list sha256:778b942b7a9ce431e469aadfb206e294a8715a5a9098de01926a3460c5e2aefa
=> => naming to docker.io/library/my-hello:latest
=> => unpacking to docker.io/library/my-hello:latest

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/peeostrp5styur7y4ippp4dwse
ptashko@MacBook-Air--Artem PythonProgramms %
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
my-hello	latest	778b942b7a9c	36 seconds ago	206MB

```
ptashko@MacBook-Air--Artem PythonProgramms % docker run my-hello
Hello, Docker!
```

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```
from Flask import Flask

app = Flask(__name__)

@app.route('/')
def home():
    return "Welcome to my simple Flask app!"

if __name__ == '__main__':
    app.run(host='0.0.0.0', port=5000)
```

```
FROM python:3.9-slim

WORKDIR /app

COPY requirements.txt .

RUN pip install --no-cache-dir -r requirements.txt

COPY app.py .

EXPOSE 5000

CMD ["python3", "app.py"]
```

```
ptashko@MacBook-Air--Artem MA_lab2 % ls
Dockerfile          app.py          requirements.txt
```

```
ptashko@MacBook-Air--Artem MA_lab2 % docker build -t flask-app .
[+] Building 15.4s (11/11) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 243B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> CACHED [1/5] FROM docker.io/library/python:3.9-slim@sha256:cf0704507972b63c9b20382dd6f05248572d6b25961410305f96479bf2e8a23c
=> => resolve docker.io/library/python:3.9-slim@sha256:cf0704507972b63c9b20382dd6f05248572d6b25961410305f96479bf2e8a23c
=> [internal] load build context
=> => transferring context: 343B
=> [2/5] WORKDIR /app
=> [3/5] COPY requirements.txt .
=> [4/5] RUN pip install --no-cache-dir -r requirements.txt
=> [5/5] COPY app.py .
=> exporting to image
=> => exporting layers
=> => exporting manifest sha256:c15324728b95cd8b6c6c51ffb42b6017bbc2c1332091026915ce94bf636d7e8
=> => exporting config sha256:8b78406ce465ef54e33ed9b41fff0b97a1e0efadb22443838c0a963613c79c1
=> => exporting attestation manifest sha256:8171e448c1ac4253b0ec892ba98559b74348de507e95031e4b9806edcaa8958
=> => exporting manifest list sha256:ce7e88c1a0ca7ec70d9c819ff52f86b9ac97bf0ee55f75954b61e7be2f7f4fb5
=> => naming to docker.io/library/flask-app:latest
=> => unpacking to docker.io/library/flask-app:latest

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/7rmmkzgsq1uo2jmofm1fbm4e5
```

```
ptashko@MacBook-Air--Artem MA_lab2 % docker run -d -p 8001:5000 --name flask_container flask-app
801243ae639c5c41faaa1bdb1890d78eae16914a19741d4a8b6fb2f539a48dc
```

Welcome to my simple Flask app!