Python

In this lesson, you will be provided with the basic application image for Python.

WE'LL COVER THE FOLLOWING

Result

The resulting image is published as *learnbook/python-server*. You can run a container from it with the following command:

```
docker run --rm -it -p 8089:5000 learnbook/python-server
```

Then point your browser to `http://localhost:8089`

Files

> You can find these files in the *code/common-development-profiles/demos/python* folder.

A static HTML file to be served:

templates/index.htm

```
<h1>Hello !</h1>
<p>This page is served by Python</p>
<p>Try our <a href="/v1/square/4">multiply API</a>.</p>
```

Define and run an HTTP server, a static files server, and a REST API:

server.py

```
from flask import Flask
from flask import render_template
from flask import request, jsonify

app = Flask(__name__)

@app.route('/v1/square/<int:value>')
def show_user_profile(value):
    square = value * value
    return jsonify(value=value, square=square)

@app.route('/')
def hello():
    return render_template('index.htm')
```

Docker image definition:

Dockerfile

```
FROM python:3.7-stretch

# Install modules
RUN pip install Flask

# Needed by the Flask module
ENV FLASK_APP=server.py

# Copy source files into the image
COPY templates ./templates
COPY server.py .

EXPOSE 5000

CMD ["flask", "run", "--host=0.0.0.0"]
```

At this point, you should be good to go with Docker. In the final chapter of this course, you will be given a few more tips that will make your life with Docker smoother.