Build a simple web application with Docker

# A simple web application

## Prerequisite

Install Python3, Pip

* Python3: <https://www.python.org/downloads/>
* Pip: <https://pip.pypa.io/en/stable/installation/#get-pip-py>
* Related commands for installing Pip

curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py

python3 get-pip.py

Use Pip to install Flask

pip install flask

## Hello world using Python Flask

from flask import Flask, Response

app = Flask(\_\_name\_\_)

@app.route("/")

def hello():

return Response("Hello World")

if \_\_name\_\_ == "\_\_main\_\_":

app.run("0.0.0.0", port=5000, debug=True)

Run the following command and check the browser at localhost:5000

python3 app.py

# Dependencies

* Linux
* Python3
* Flask
* app.py

# A simple web application with docker

## Prerequisite

Install Docker:

* <https://hub.docker.com/>
* <https://docs.docker.com/get-docker/>

## The Dockerfile

FROM ubuntu:18.04

COPY . /app

## Command to use

Build the container with name hello

docker build -t hello .

docker image ls

docker run hello

# Others Useful Commands for Python

## Virtualenv Installment

pip install virtualenv

virtualenv --version

virtualenv env

source env/bin/activate

Deactivate