**Dockerize Simple Flask App**

In this tutorial you will learn how to create a simple Flask App and run it inside a docker container

Required Software

* docker (1.6.0 or above)
* python 2.7 or above
* Linux VM - (We used ubuntu 14.04 64 bit)

Create the Flask App and Deployment files

Create a folder web. All our files will be inside this directory

**Flask Application**[**¶**](http://containertutorials.com/docker-compose/flask-simple-app.html#flask-application)

Create a new file app.py inside web and add the following python code

From flask **import** **Flask**

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

**@app.route**('/')

**def** hello\_world():

**return** 'Flask Dockerized'

**if** \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True,host='0.0.0.0')

**Requirements File**

Requirements file states the software required to be installed in the container. Create a file requirements.txt inside web folder

Flask==0.10.1

**Dockerfile**

This file is needs to create a docker image and deploy it

FROM ubuntu:latest

MAINTAINER Rajdeep Dua "dua\_rajdeep@yahoo.com"

RUN apt-get update -y

RUN apt-get install -y python-pip python-dev build-essential

COPY . /app

WORKDIR /app

RUN pip install -r requirements.txt

ENTRYPOINT ["python"]

CMD ["app.py"]

Build the docker Image

Run the following command to build the docker image flask-sample-one from web directory

$ docker build -t flask-sample-one:latest .

Run the Docker Container

$ docker run -d -p 5000:5000 flask-sample-one

You can find the container runtime details as shown below