

Python Django in docker

Step 1:- Create an EC2 instancePorts:22, 8000

Step 2:- Connect to EC2 instance

Step 3:- Install Docker Engine latest version
<https://docs.docker.com/engine/install/ubuntu/> (for ubuntu)

Step 4:- Clone Git Repo

git clone <https://github.com/PratikBorge/cf-example-python-django.git>

Step 5:- Create dockerfile

```
FROM python:3.6-slim

RUN mkdir /code
WORKDIR /code
RUN pip install --upgrade pip
COPY requirements.txt /code/
RUN pip install -r requirements.txt
COPY . /code/
EXPOSE 8000

CMD ["python", "manage.py", "runserver", "0.0.0.0:8000"]
```

Step 6:- Build image from dockerfile

```

root@ip-172-31-30-167:~# cf-example-python-django# docker build
[+] Building 19.0s (13/13) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring Dockerfile: 272B
=> [internal] load metadata for docker.io/library/python:3.6-slim
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/7] FROM docker.io/library/python:3.6-slim@sha256:2cfcb27956e6a55f78606864d91fe527696f9e32a724e6f9702b5f9602d0474
=> => resolve docker.io/library/python:3.6-slim@sha256:2cfcb27956e6a55f78606864d91fe527696f9e32a724e6f9702b5f9602d0474
=> sha256:cac5fc64d29d4da4b4f5fbb769f524d0f36a2edab49819c1b53e76f409f959ee 31.36MB / 31.36MB
=> sha256:1561111111111111111111111111111111111111111111111111111111111111 1.08MB / 1.08MB
=> sha256:8383a5a04f4dab5f562bafeddd3bd30d98cd9f43ac66d18cedbaf0f04a3645 9.74MB / 9.74MB
=> sha256:256c2ed27956e6a55f78606864d91fe527696f9e32a724e6f9702b5f9602d0474 1.86kB / 1.86kB
=> sha256:28028f63ce569a64a5059c9ca76e85469fbb83ce9a93ad2fe5f13f5e5a2c412 1.37kB / 1.37kB
=> sha256:c1e40969532f47ed3e32fabda2e711725b6ef34f118bd4d0bc4de09744e11e0c 8.54kB / 8.54kB
=> extracting sha256:a2ab56c4d23d434b49fbb769f524d0f36a2edab49819c1b53e76f409f959ee 235B / 235B
=> sha256:e932ae59b6895037b7e48ef23a300776f9bb80eb0425c98608253489717da9c 235B / 235B
=> sha256:c4401b807e9d459a19eaaab0706ebb3c186a79e3ac871b708dd0a6e7be 2.50MB / 2.50MB
=> extracting sha256:625294dad115cbe7d8e32b35306fdeaa50021e1e1978970e24bd1181be689
=> extracting sha256:838e3a5a04fd2abf562bafeddd3bd30d98cd9f43ac66d18cedbaf0f04a3645
=> extracting sha256:8932ae59b6895037b7e48ef23a300776f9bb80eb0425c98608253489717da9c
=> extracting sha256:4401b807e9d459a19eaaab0706ebb3c186a79e3ac871b708dd0a6e7be
[internal] load build context
=> transferring context: 134.40kB
[2/7] RUN mkdir /code
[3/7] WORKDIR /code
[4/7] RUN pip install --upgrade pip
[5/7] COPY requirements.txt /code/
[6/7] RUN pip install -r requirements.txt
[7/7] COPY . /code/
=> exporting to image
=> exporting layers
=> writing image sha256:8da79b80e05e993f6b68689416a1bb8c452565fe78cf67d27fcb317b9d7ae3
root@ip-172-31-30-167:~# cf-example-python-django# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
knoepx knoepx 8da79b80e05e 38 seconds ago 176MB

```

Step 7:- Create container from image

```
docker run -d -p 8000:8000 <imageID>
```

```
root@ip-172-31-30-167:~/cf-example-python-django# docker ps
```

CONTAINER ID	IMAGE	COMMAND	STATUS	CREATED	PORTS	NAMES
65ebfbee717	8da	"python manage.py ru..."	Up 2 seconds	3 seconds ago	0.0.0.0:8000->8000/tcp, ::8000->8000/tcp	hardcore newton

Step 8:- Copy instanceIP with port_number and paste into browser

