Create Image for Python App

SSH to your AWS Workstation
ssh devops@<public-ip-addr> of your Workstation
Password is : **Dev0p$!!/**
Replace <your-name> with your name throughout the lab.

1. SSH to your AWS Workstation.

```
$ sudo su
```

2. Clone the Git Repo that contains the python code.

```
# cd /home/devops/Docker/
# git clone https://github.com/LovesCloud/python-docker.git
# cd python-docker/
```

3. Create Dockerfile in the /python-docker directory.

```
# vim Dockerfile
```

4. Paste the below script

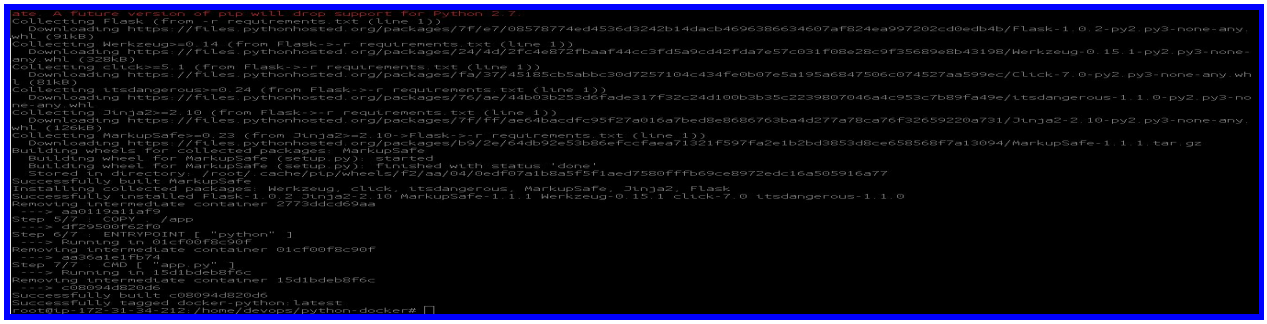
```
FROM python:2.7-alpine
COPY ./requirements.txt /app/requirements.txt
WORKDIR /app
RUN pip install -r requirements.txt
COPY . /app

ENTRYPOINT [ "python" ]
CMD [ "app.py" ]
```

Save and exit by vim editor by pressing (:wq and press Enter)

5. Run the below command from python-docker/ directory

```
# docker build . -t docker-python-<your-name>
```



6. Once the build is successful run the below command to check the build details.

```
# docker images
```

```
root@ip-172-31-34-212:/home/devops/python-docker# docker images
REPOSITORY                  TAG                 IMAGE ID            CREATED             SIZE
docker-python               latest              c08094d820d6        45 seconds ago      75.1MB
```

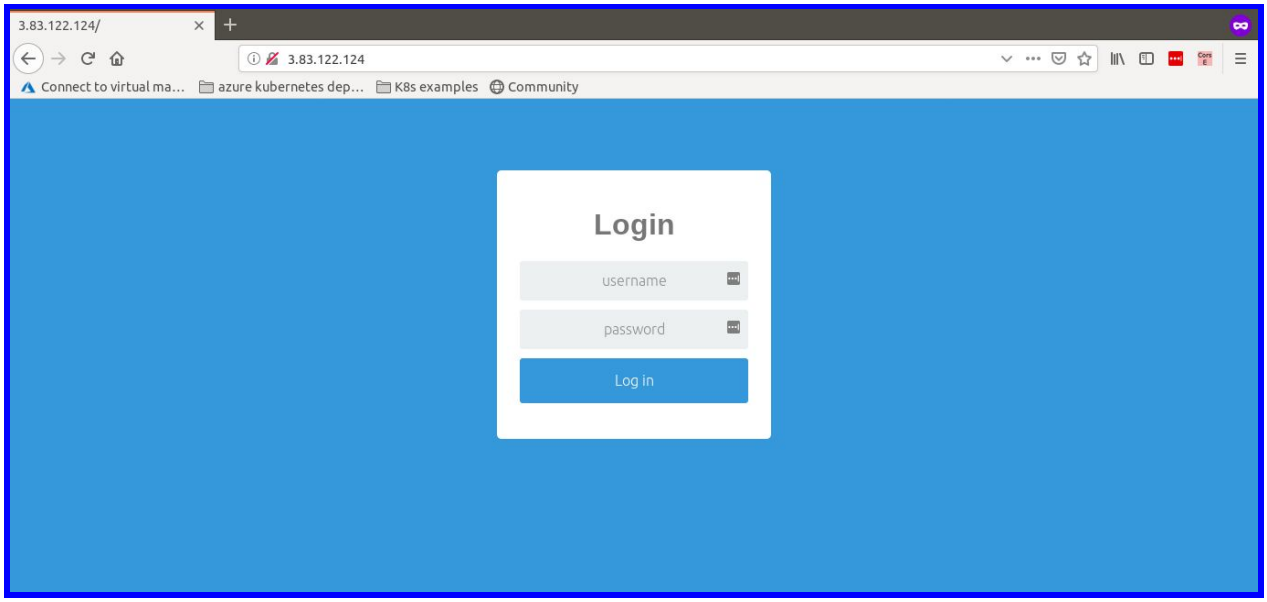
7. Run your container

```
# docker run -d -p 80:4000 --name <your-name>-python-app
docker-python-<your-name>
# docker ps
```

```
root@ip-172-31-78-220:/home/devops/python-docker-mercedes# docker ps
CONTAINER ID        IMAGE                     COMMAND             CREATED             STATUS              PORTS                    NAMES
62f2a7830b8e        docker-python-mercedes    "python app.py"     17 seconds ago      Up 16 seconds       0.0.0.0:80->4000/tcp     my-python-app
root@ip-172-31-78-220:/home/devops/python-docker-mercedes#
```

The Python Docker Container running on port 80, and can be accessed from the public IP of the AWS Workstation on default Port 80

http://<public-ip-address-of-aws-workstation>



8. Login to the Application using the below credentials.

```
Username : admin
Password : password
```

STOP THE CONTAINER BEFORE PROCEEDING TO THE NEXT LAB

9. Stop the container by running the below command.

```
# docker stop <your-name>-python-app
```