



UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES

College of Engineering Studies Dehradun

LAB FILE

Experiment 5

Programme : B. Tech in Computer Science and Engineering with Specialization in DevOps

Course : Application Containerization Lab

No. of credits : 1

Semester : VI

Session : January – May 2021

Batch : 2018-2022

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Submitted By:

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Sap id: 500068426

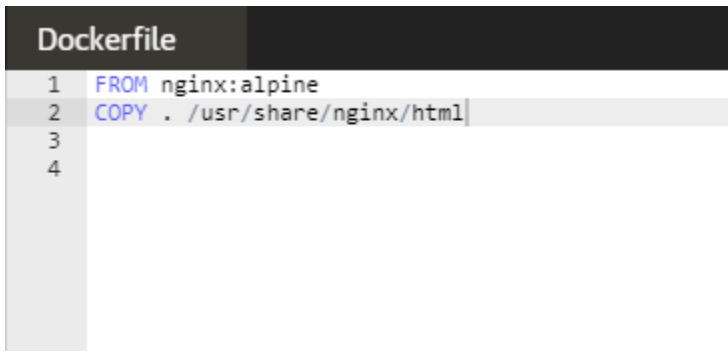
Roll No : R171218048

Dockerfile - Containerizing application, Building Images, Tagging, Publishing.

Deploy Static HTML Website as Container using Docker

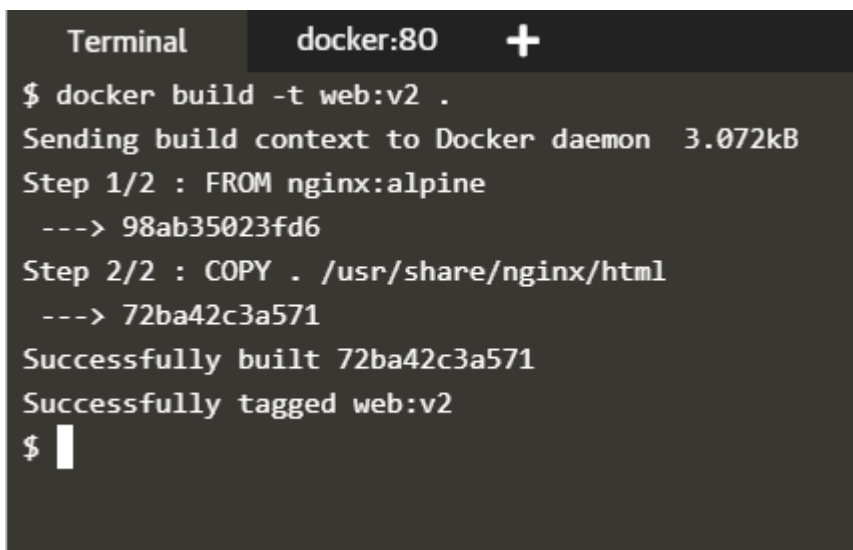
Screenshots

1. Edit the docker file and index.html .



```
Dockerfile
1 FROM nginx:alpine
2 COPY . /usr/share/nginx/html
3
4
```

2. Now build the container using the command given below.



```
Terminal    docker:80  +
$ docker build -t web:v2 .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM nginx:alpine
--> 98ab35023fd6
Step 2/2 : COPY . /usr/share/nginx/html
--> 72ba42c3a571
Successfully built 72ba42c3a571
Successfully tagged web:v2
$
```

3. Check whether the repo is created or not and then run the container.

```
$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
web	v2	72ba42c3a571	27 seconds ago	22.3MB
nginx	alpine	98ab35023fd6	6 days ago	22.3MB
redis	latest	4760dc956b2d	2 years ago	107MB
ubuntu	latest	f975c5035748	2 years ago	112MB
alpine	latest	3fd9065eaf02	2 years ago	4.14MB

```
$
```

```
Terminal    docker:80  +
$ docker run -d -p 80:80 web:v2
1010db9506fea4bda7e05f5ad329c64c00eb096a2989b534caeca111ade9565c
$
```

```
Terminal    docker:80  +
$ curl docker
<h1>Hello World</h1>
$
```

Docker Hub x Deploy Static HTML Website as C x https://2886795314-80-elsy04.e... x +
2886795314-80-elsy04.environments.katacoda.com

Hello World

4. Now connect to Docker Hub Account and push the repo on the account.

```
Terminal    docker:80  +
$ docker login --username ingit
Password:
Login Succeeded
$ docker tag web:v2 ingit/Lab14
Error parsing reference: "ingit/Lab14" is not a valid repository/tag: invalid reference format: repository name must be lowercase
$ docker tag web:v2 ingit/web
$
```

```
Terminal    docker:80  +
$ docker push ingit/web
The push refers to repository [docker.io/ingit/web]
093babb36578: Pushed
468af79aab10: Mounted from library/nginx
fbf82c12d86e: Mounted from library/nginx
4dc20fbc0e8d: Mounted from library/nginx
b831cc3ae47e: Mounted from library/nginx
ace0eda3e3be: Mounted from library/nginx
latest: digest: sha256:05b853ba6719b32f919b469ca60576c419a025e642f1ba84d9acf38b4e637e3f size: 1567
$
```

