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DevOps Batch-2 (5th Semester)
Submitted to- Mr. Hitesh Kumar

CICD LAB- Experiment (Docker Image)

This base image is defined as an instruction in the Dockerfile. Docker Images are built based on the contents of a Dockerfile. The Dockerfile is a list of instructions describing how to deploy your application.

In this example, our base image is the Alpine version of Nginx. This provides the configured web server on the Linux Alpine distribution.

Task: Create your *Dockerfile* for building your image by copying the contents below into the editor.

```
FROM nginx:alpine
COPY . /usr/share/nginx/html
```

The first line defines our base image. The second line copies the content of the current directory into a particular location inside the container.

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Deploy Static HTML Website as Container

Step 1 of 3 >

Initiated.

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CONTINUE

Dockerfileindex.html

```
1 # This is your Editor pane. Write the Dockerfile here and
2 # use the command line to execute commands
3 FROM nginx:alpine
4 COPY . /usr/share/nginx/html
```

Terminal

docker:80

```
Your Interactive Bash Terminal. A safe place to learn and execute commands.
$
$
```

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Dockerfileindex.html

```
1 <h1>Hello World</h1>
2
```

Terminal

docker:80

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$
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```

The Dockerfile is used by the Docker CLI *build* command. The *build* command executes each instruction within the Dockerfile. The result is a built Docker Image that can be launched and run your configured app.

The build command takes in some different parameters. The format is *docker build -t <build-directory>*. The *-t* parameter allows you to specify a friendly name for the image and a tag, commonly used as a version number. This allows you to track built images and be confident about which version is being started.

Task: Build our static HTML image using the build command below.

```
docker build -t webversion:v1 .
```

You can view a list of all the images on the host using `docker images`.

The built image will have the name *webserver-image* with a tag of *v1*.

```
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
webversion           v1                 4bff7ea17e44       About a minute ago 22.3MB
nginx                alpine             98ab35023fd6       6 days ago         22.3MB
ubuntu               latest             16508e5c265d       2 years ago        84.1MB
redis                latest             4e8db158f18d       2 years ago        83.4MB
weaveworks/scope     1.9.1              4b07159e407b       2 years ago        68MB
alpine               latest             11cd0b38bc3c       2 years ago        4.41MB
$
```

Launch our newly built image providing the friendly name and tag. As it's a web server, bind port 80 to our host using the *-p* parameter.

```
docker run -d -p 80:80 webserver-image:v1
```


Once started, you'll be able to access the results of port 80 via `curl docker`


Then Provide the credential of dockerhub as mentioned below:-

```
$ docker run -d -p 80:80 webversion:v1
6196aca85e01614edf6119a579a6767484e0b9489ea97b1d9caff196181439f6
$ curl docker
<h1>Hello World</h1>
$ docker login --username mansi1709
Password:
Login Succeeded
$
```

Push to the dockerhub as mentioned below:-

```
$ docker tag webversion:v1 mansi1709/web
$ docker push mansi1709/web
The push refers to repository [docker.io/mansi1709/web]
7248816471b8: 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:ad7dd670ab680b8b9157527d12e3529aa795358c0b6ce8bb6fa4516936bca721 size: 1567
```



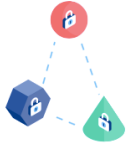
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mansi1709


mansi1709

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mansi1709 / web Updated a minute ago	Not Scanned	☆ 0	↓ 0	Public
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mansi1709 / myk8sjenk Updated 5 months ago	Not Scanned	☆ 0	↓ 8	Public
mansi1709 / myk8simg Updated 5 months ago	Not Scanned	☆ 0	↓ 32	Public
mansi1709 / myhttps Updated 6 months ago	Not Scanned	☆ 0	↓ 24	Public



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Download the docker image from remote location if its not available within the system as shown below:-

```

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$
$ docker run -d -p 80:80 mansi1709/web
Unable to find image 'mansi1709/web:latest' locally
latest: Pulling from mansi1709/web
188c0c94c7c5: Already exists
617561f33ec6: Already exists
7d856acdaa9c: Already exists
a0d3c6e28e6d: Already exists
af69a9b963c8: Already exists
89cfa013d8d6: Pull complete
Digest: sha256:ad7dd670ab680b8b9157527d12e3529aa795358c0b6ce8bb6fa4516936bca721
Status: Downloaded newer image for mansi1709/web:latest
3af35b599827b519043f2d7c9ba5fe6b1ac9da0c3aa3c08177c3c9feebf062c0
$

```