

# Lab5 Create Image with Website

## We want to host a html website

Create a Ubuntu 22.04 Server, Log into the server.

```
1 #linuxadmin
2 sudo su -
3
4 #root
5 mkdir website
6
7 # Navigate to the directory
8 cd website
```

```
1 # Download the html website from here:
2 wget https://www.free-css.com/assets/files/free-css-templates/download/page289/bluene.zip
```

```
1 # Install unzip
2 sudo apt-get install unzip
```

```
1 # Unzip the files
2 unzip bluene.zip
```

### Create a Dockerfile:

```
1 nano Dockerfile

1 FROM ubuntu
2 RUN apt update
3 RUN apt install -y apache2
4 RUN apt install -y apache2-utils
5 RUN apt clean
6 COPY ./bluene-html/ /var/www/html
7 EXPOSE 80
8 CMD ["apache2ctl", "-D", "FOREGROUND"]
```

### Build Dockerfile:

```
1 docker build -t teachmycloud/website .
```

### Push this Image to Dockerhub:

```
1 docker login
2 teachmycloud
3 *****
4 Login Successful
5
6 docker push teachmycloud/website
```

---

### Verify the Image:

```
1 docker images
```

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#### Run any current containers (Optional):

```
1 # Safe side delete any existing containers, because they might be already using Port 80
2 docker rm $(docker ps -aq)
3
4 # To delete all Images use
5 docker rmi -f $(docker images)
```

```
1 docker run --name myapache -d -p 80:80 apache:3.0
```

#### Verify if the container is running:

```
1 root@ubuntu22:~/apache3# docker ps -a
2 CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
3 419a705e19ac   apache:3.0    "apache2ctl -D FOREG..." 5 seconds ago  Up 4 seconds  0.0.0.0:80->80/tcp, :::80->80
```

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#### Access the website:

<http://51.142.252.242/>