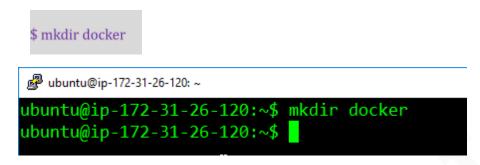


## Module 3: Hands-On: Creating a Dockerfile



Step 1: Create a folder Docker in the home directory



**Step 2:** Enter into this directory and create a file called 'Dockerfile', with the same contents as the Sample Dockerfile. Add the following content in the Dockerfile.

\$ cd docker
\$ sudo nano Dockerfile

FROM ubuntu

RUN apt-get update

RUN apt-get -y install apache2

ADD . /var/www/html

ENTRYPOINT apachectl -D FOREGROUND

ENV name Devops Intellipaat

```
GNU nano 2.9.3

Dockerfile

FROM ubuntu

RUN apt-get update
RUN apt-get -y install apache2

ADD . /var/www/html

ENTRYPOINT apachectl -D FOREGROUND

ENV name Devops Intellipaat
```



**Step 3:** Create one more file called index.html with the following contents which can verify the push on Docker Hub.

\$ sudo nano index.html

<html>
<title> Sample Website </title>
<body>
 Hello World
</body>
</html>



## Step 4: Now pass the following command:

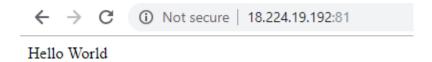
```
$ docker build < directory-of-dockerfile > -t
             <name of container>
ubuntu@ip-172-31-26-120: ~/docker
ubuntu@ip-172-31-26-120:~/docker$ docker build . -t intellipaat/custom
Sending build context to Docker daemon 3.072kB
Step 1/6 : FROM ubuntu
---> 93fd78260bd1
Step 2/6 : RUN apt-get update
---> Using cache
---> 8ce3e5e6548b
Step 3/6 : RUN apt-get -y install apache2
---> Using cache
---> 296859cef2f0
Step 4/6 : ADD . /var/www/html
---> a3dba497063b
Step 5/6 : ENTRYPOINT apachectl -D FOREGROUND
---> Running in e93d78e6de9d
Removing intermediate container e93d78e6de9d
---> 2a0995664eba
Step 6/6 : ENV name Devops Intellipaat
---> Running in 7497da476b3c
Removing intermediate container 7497da476b3c
---> 73370339b1d4
Successfully built 73370339b1d4
Successfully tagged intellipaat/custom:latest
|buntu@ip-172-31-26-120:~/docker
```

## **Step 5:** Finally, run this built image, using the following command:

```
$ docker run -it -p 81:80 -d < name of container>
```



Step 6: Now navigate to the server IP address on port 81



**Step 7:** Finally, login into the container and check the variable \$name, it will have the same value, as given in the Dockerfile.

```
ubuntu@ip-172-31-26-120:~/docker$ docker exec -ti 828bc20911cc bash root@828bc20911cc:/# echo $name

Devops Intellipaat root@828bc20911cc:/# T
```