



CREATING A DOCKERFILE

DevOps Certification Training

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CREATING A DOCKERFILE

Step 1: First, create a folder docker, in the home directory

```
$ mkdir docker
```

```
ubuntu@ip-172-31-26-120: ~  
ubuntu@ip-172-31-26-120:~$ mkdir docker  
ubuntu@ip-172-31-26-120:~$
```

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
```

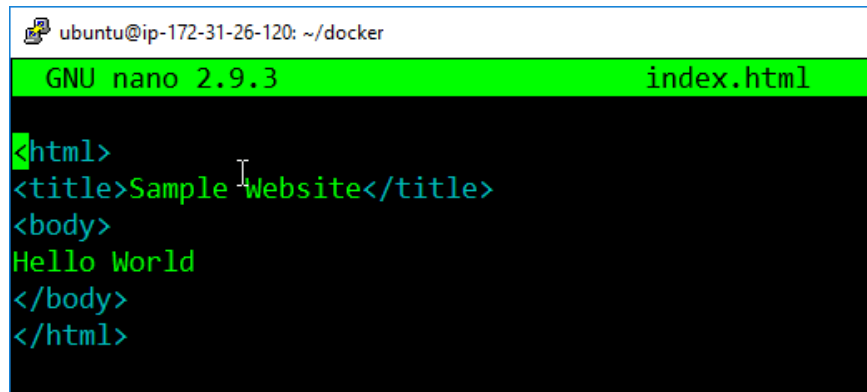
```
FROM ubuntu  
RUN apt-get update  
RUN apt-get -y install apache2  
ADD . /var/www/html  
ENTRYPOINT apachectl -D FOREGROUND  
ENV name Devops Intellipaat
```

```
ubuntu@ip-172-31-26-120: ~/docker  
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 can verify the push on DockerHub.

```
$ sudo nano index.html
```

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



```
ubuntu@ip-172-31-26-120: ~/docker
GNU nano 2.9.3 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>
```

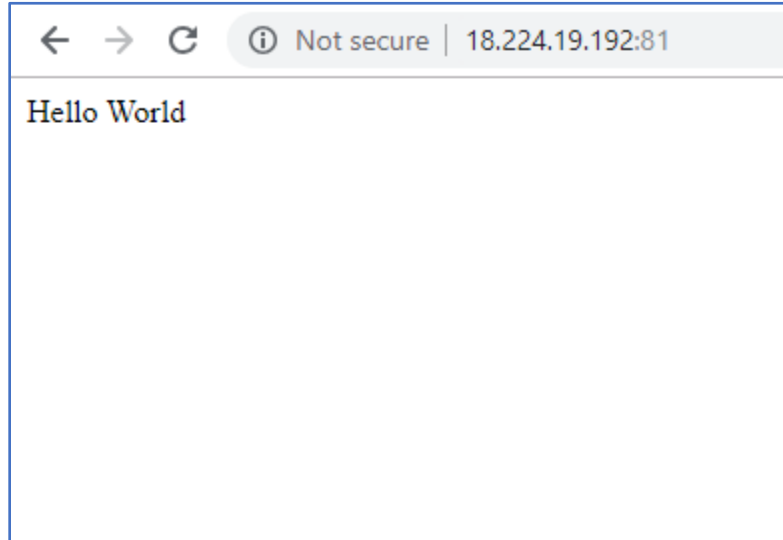
```
ubuntu@ip-172-31-26-120: ~/docker
ubuntu@ip-172-31-26-120:~/docker$ docker build . -t intellipaat/custom
Sending build context to Docker daemon  3.072kB
Step 1/6 : FROM ubuntu
--> 93fd78260bd1
Step 2/6 : RUN apt-get update
--> Using cache
--> 8ce3e5e6548b
Step 3/6 : RUN apt-get -y install apache2
--> 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
ubuntu@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>
```

```
ubuntu@ip-172-31-26-120: ~/docker
ubuntu@ip-172-31-26-120:~/docker$ docker run -ti -p 81:80 -d intellipaat/custom
63df2a33c1012cc811bfa0bb88d5655ca8453bac03cba04094cd13aacd37b0fd
ubuntu@ip-172-31-26-120:~/docker$
```

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.

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