

Module-3: Docker – I Assignment – 5

You have been asked to:

- Create a sample HTML file
 - Use the Dockerfile from the previous task
 - Replace this sample HTML file inside the docker container with the default page
-

```
ubuntu@ip-172-31-80-16:~/assignment5$ nano Dockerfile
ubuntu@ip-172-31-80-16:~/assignment5$ cat Dockerfile
FROM ubuntu
RUN apt-get update
RUN DEBIAN_FRONTEND="noninteractive" apt-get install tzdata -y
RUN apt-get install apache2 -y
COPY index.html /var/www/html/
ENTRYPOINT apachectl -D FOREGROUND
ubuntu@ip-172-31-80-16:~/assignment5$
```

i-04085a6df112fd480 (Docker)

PublicIPs: 3.87.191.171 PrivateIPs: 172.31.80.16

```
ubuntu@ip-172-31-80-16:~/assignment5$ echo "this is index file and it's running on a docker container" > index.html
ubuntu@ip-172-31-80-16:~/assignment5$ ll
total 16
drwxrwxr-x 2 ubuntu ubuntu 4096 Apr  7 05:05 ./
drwxr-x--- 6 ubuntu ubuntu 4096 Apr  7 05:00 ../
-rw-rw-r-- 1 ubuntu ubuntu  194 Apr  7 05:03 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu   58 Apr  7 05:05 index.html
ubuntu@ip-172-31-80-16:~/assignment5$
```

i-04085a6df112fd480 (Docker)

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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-04085a6df112fd480&osUser=ubuntu®ion=us-east-1&s... Screenshot taken View image

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```
ubuntu@ip-172-31-80-16:~/assignment5$ echo "this is index file and it's running on a docker container" > index.html
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-rw-rw-r-- 1 ubuntu ubuntu  194 Apr  7 05:03 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu   58 Apr  7 05:05 index.html
ubuntu@ip-172-31-80-16:~/assignment5$ sudo docker build . -t docker-assignment5
[+] Building 1.7s (5/9)
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 233B                                              0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest                 0.1s
=> CACHED [1/5] FROM docker.io/library/ubuntu@sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21 0.0s
=> [internal] load build context                                                  0.0s
=> => transferring context: 95B                                                 0.0s
=> [2/5] RUN apt-get update                                                       1.6s
=> => # Get:6 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [914 kB]
=> => # Get:7 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
=> => # Get:8 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
=> => # Get:9 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
=> => # Get:10 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB]
=> => # Get:11 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
```

i-04085a6df112fd480 (Docker) X

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```
total 16
drwxrwxr-x 2 ubuntu ubuntu 4096 Apr  7 05:05 ./
drwxr-x--- 6 ubuntu ubuntu 4096 Apr  7 05:00 ../
-rw-rw-r-- 1 ubuntu ubuntu 194 Apr  7 05:03 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu  58 Apr  7 05:05 index.html
ubuntu@ip-172-31-80-16:~/assignment5$ sudo docker build . -t docker-assignment5
[+] Building 21.9s (10/10) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 233B                                              0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest                 0.1s
=> CACHED [1/5] FROM docker.io/library/ubuntu@sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3bab9c295a0428a6d21 0.0s
=> [internal] load build context                                                0.0s
=> => transferring context: 95B                                                0.0s
=> [2/5] RUN apt-get update                                                     4.5s
=> [3/5] RUN DEBIAN_FRONTEND="noninteractive" apt-get install tzdata -y        2.6s
=> [4/5] RUN apt-get install apache2 -y                                       12.5s
=> [5/5] COPY index.html /var/www/html/                                       0.1s
=> exporting to image                                                         2.1s
=> => exporting layers                                                         2.1s
=> => writing image sha256:3f7048bd8c1cd55278f8ef3024c66176392bda286fc1fd71347033e901d9a425 0.0s
=> => naming to docker.io/library/docker-assignment5                          0.0s
ubuntu@ip-172-31-80-16:~/assignment5$
```

i-04085a6df112fd480 (Docker) X
PublicIPs: 3.87.191.171 PrivateIPs: 172.31.80.16


```
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 2B                                  0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 0.1s
=> CACHED [1/5] FROM docker.io/library/ubuntu@sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3bab0295a0428a6d21 0.0s
=> [internal] load build context                                0.0s
=> => transferring context: 95B                                  0.0s
=> [2/5] RUN apt-get update                                    4.5s
=> [3/5] RUN DEBIAN_FRONTEND="noninteractive" apt-get install tzdata -y 2.6s
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=> [5/5] COPY index.html /var/www/html/                        0.1s
=> exporting to image                                          2.1s
=> => exporting layers                                          2.1s
=> => writing image sha256:3f7048bd8c1cd55278f8ef3024c66176392bda286fcd71347033e901d9a425 0.0s
=> => naming to docker.io/library/docker-assignment5          0.0s
ubuntu@ip-172-31-80-16:~/assignment5$ sudo docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
docker-assignment5  latest      3f7048bd8c1c  47 seconds ago 233MB
docker-assignment4  latest      6ddad371d934  22 minutes ago 233MB
ubuntu@ip-172-31-80-16:~/assignment5$ sudo docker run -itd -p 90:80 docker-assignment5
9519fcd62fbda8ea99b8d66f7fa00487e8cc982ed15a09c2f8d8f02d81e642ac
ubuntu@ip-172-31-80-16:~/assignment5$ sudo docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
9519fcd62fbd   docker-assignment5  "/bin/sh -c 'apachec..."  11 seconds ago  Up 10 seconds  0.0.0.0:90->80/tcp, :::90->80/tcp  sweet_ganguly
f4b12a98947e   docker-assignment4  "/bin/sh -c 'apachec..."  17 minutes ago  Up 17 minutes  0.0.0.0:71->80/tcp, :::71->80/tcp  magical_joliot
ubuntu@ip-172-31-80-16:~/assignment5$
```

i-04085a6df112fd480 (Docker)

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Inbound rules [Info](#)

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info	
sgr-07ce982cba383f25e	SSH ▼	TCP	22	Custom ▼ <input type="text" value="0.0.0.0/0 X"/>		Delete
sgr-0d061b5f20ddbcfe5	HTTP ▼	TCP	80	Custom ▼ <input type="text" value="0.0.0.0/0 X"/>		Delete
sgr-0caf1e27cb0ddeb2	Custom TCP ▼	TCP	71	Custom ▼ <input type="text" value="0.0.0.0/0 X"/>		Delete
sgr-0bade900d889817e8	HTTPS ▼	TCP	443	Custom ▼ <input type="text" value="0.0.0.0/0 X"/>		Delete
-	Custom TCP ▼	TCP	90	Anywh... ▼ <input type="text" value="0.0.0.0/0 X"/>		Delete

Add rule

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EC2 Management Console x

EC2 Instance Connect x

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this is index file and it's running on a docker container