

1. Launch the Apache2 container created in previous module
 2. Create a Docker volume on /var/www/html
- Please submit the commands in order to complete this assignment.

`docker run -d -p 81:80 image_name`

```
ubuntu@ip-172-31-28-52:~$ sudo docker run -d -p 81:80 lovely
a9c924cc1a6398127a1026a2289cc80e0e17316d462466f835f443f6f99c5e28
ubuntu@ip-172-31-28-52:~$
```

i-07df776406e346ba5 (maan)

PublicIPs: 34.233.128.15 PrivateIPs: 172.31.28.52

2.

CREATE VOLUME

`sudo docker volume create myvol`

```
[ec2-user@ip-172-31-81-31 ~]$ sudo docker volume create myvol
myvol
[ec2-user@ip-172-31-81-31 ~]$
```

i-0f6aa4bb49616b5f5 (linux)

PublicIPs: 34.201.173.67 PrivateIPs: 172.31.81.31

Mount this volume to the /var/www/html directory of the running container

`sudo docker run -d -p 82:80 -v myvol:/var/www/html demoimage2`

```
[ec2-user@ip-172-31-81-31 ~]$ sudo docker run -d -p 82:80 -v myvol:/var/www/html demoimage2
45fbb8967111ac154164d0f914a8ca9a2fa10ab05a5caa3b6d8a541fd889828c
[ec2-user@ip-172-31-81-31 ~]$
```

i-0f6aa4bb49616b5f5 (linux)

PublicIPs: 34.201.173.67 PrivateIPs: 172.31.81.31

```
[ec2-user@ip-172-31-81-31 ~]$ sudo docker exec -it 45fbb8967111 bash
root@45fbb8967111:/# cd /var/www/html
root@45fbb8967111:/var/www/html# ls -la
total 4
drwxr-xr-x. 2 root root 24 Jan 29 22:27 .
drwxr-xr-x. 1 root root 18 Jan 29 13:11 ..
-rw-r--r--. 1 root root 32 Jan 29 13:51 index.html
root@45fbb8967111:/var/www/html# cat index.html
<h1>welcome to Intellipaat</h1>
root@45fbb8967111:/var/www/html#
```

i-0f6aa4bb49616b5f5 (linux)

PublicIPs: 34.201.173.67 PrivateIPs: 172.31.81.31

2. Create a bind mount on /var/www/html to replace html files dynamically.

stop and remove the previous container

```
sudo docker stop reverent_lalande
sudo docker rm reverent_lalande
```

```
[ec2-user@ip-172-31-81-31 ~]$ sudo docker stop reverent_lalande
reverent_lalande
[ec2-user@ip-172-31-81-31 ~]$ sudo docker rm reverent_lalande
reverent_lalande
[ec2-user@ip-172-31-81-31 ~]$
```

i-Of6aa4bb49616b5f5 (linux)
PublicIPs: 34.201.173.67 PrivateIPs: 172.31.81.31

```
sudo docker run -d -p 80:80 -v /home/ec2-user/html:/var/www/html --name apache-container demoimage2
```

```
[ec2-user@ip-172-31-81-31 ~]$ sudo docker run -d -p 80:80 -v /home/ec2-user/html:/var/www/html --name apache-container demoimage2
656be882fb9f2b5ff6807d7e832b7cab77774f5d21f09eblbe53b2789ec4bca2
[ec2-user@ip-172-31-81-31 ~]$ docker ps
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/json": dial unix /var/run/docker.sock: connect: permission denied
[ec2-user@ip-172-31-81-31 ~]$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
656be882fb9f   demoimage2 "apache2ctl -D FOREG..." 51 seconds ago Up 50 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp  apache-container
```

i-Of6aa4bb49616b5f5 (linux)
PublicIPs: 34.201.173.67 PrivateIPs: 172.31.81.31

```
sudo docker inspect 656be882fb9f
```

```
[ec2-user@ip-172-31-81-31 ~]$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
656be882fb9f   demoimage2 "apache2ctl -D FOREG..." 51 seconds ago Up 50 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp  apache-container
[ec2-user@ip-172-31-81-31 ~]$ sudo docker inspect 656be882fb9f
[
  {
    "Id": "656be882fb9f2b5ff6807d7e832b7cab77774f5d21f09eblbe53b2789ec4bca2",
    "Created": "2024-01-29T23:15:45.406596297Z",
    "Path": "apache2ctl",
    "Args": [
      "-D",
      "FOREGROUND"
    ],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
```

i-Of6aa4bb49616b5f5 (linux)
PublicIPs: 34.201.173.67 PrivateIPs: 172.31.81.31

....
.
.

```
"Mounts": [  
  {  
    "Type": "bind",  
    "Source": "/home/ec2-user/html",  
    "Destination": "/var/www/html",  
    "Mode": "",  
    "RW": true,  
    "Propagation": "rprivate"
```