

Task:

1. Install Docker on your EC2 Instance.
2. Practice Basic commands of Docker.
3. Pull `hackcoderr/apache:v1` image from Docker Hub.

E.g: `docker pull hackcoderr/apache:v1`

URL: <https://hub.docker.com/r/hackcoderr/apache>

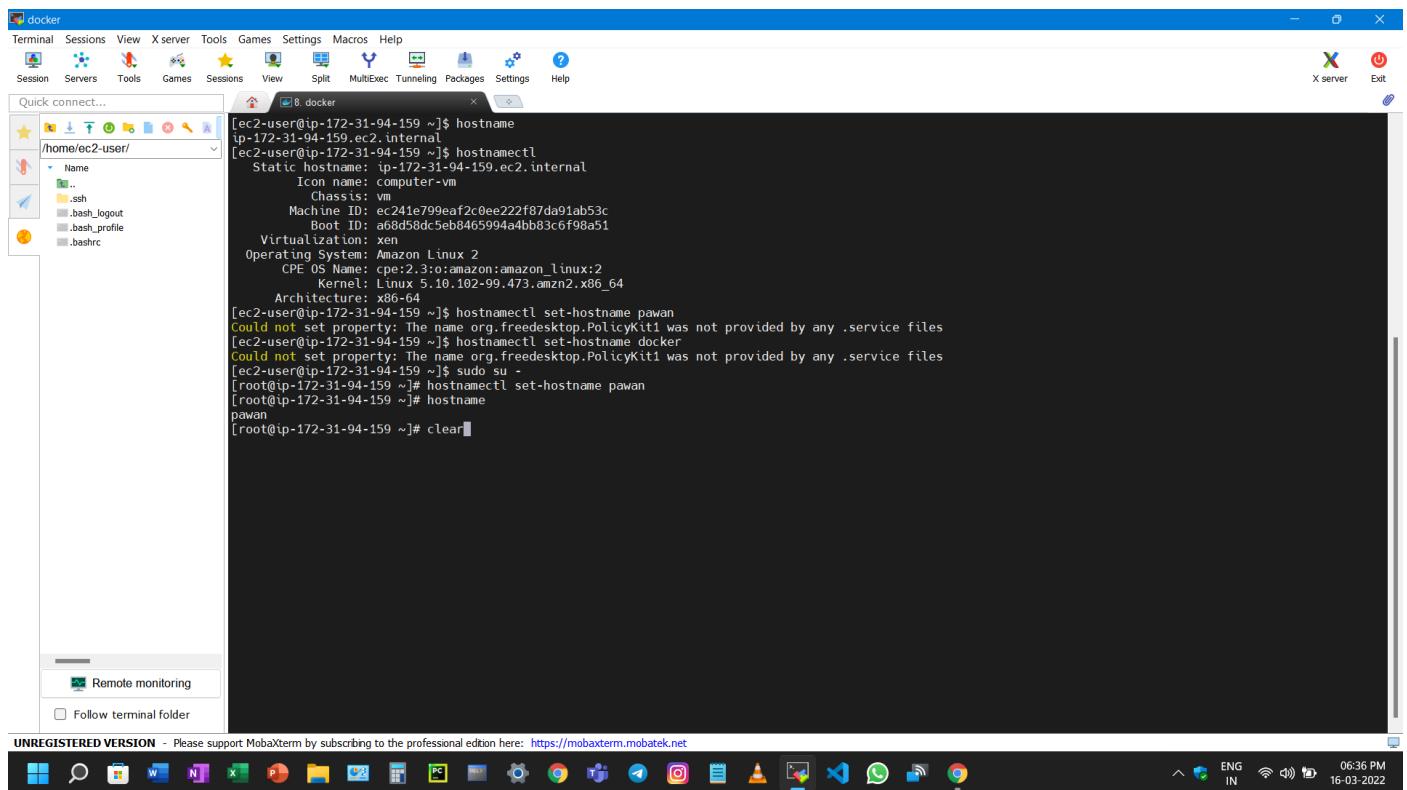
4. Run this container image on your docker.

E.g: `docker run -dit --name <container_name> -p 80:80 hackcoderr/apache:v1`

5. Go on your AWS account and copy the public IP of your instance and paste it on the browser with the port which you mentioned during the launching of the container.

E.g: 3.110.30.116:80

Screenshots with explanation:



The screenshot shows a terminal window titled "docker" running on a Windows host. The terminal session is connected to an Amazon Linux 2 instance (IP: 172.31.94.159). The user is changing the hostname from "pawan" to "pawana".

```
[ec2-user@ip-172-31-94-159 ~]$ hostname
ip-172-31-94-159.ec2.internal
[ec2-user@ip-172-31-94-159 ~]$ hostnamectl
Static hostname: ip-172-31-94-159.ec2.internal
  Icon name: computer-vm
    Chassis: vm
      Machine ID: ec241e799eaf2c0ee222f87da91ab53c
        Boot ID: a68d58dc5eb8465994a4bb83c6f98a51
  Virtualization: xen
Operating System: Amazon Linux 2
  CPE OS Name: cpe:2.3:o:amazon:amazon linux:2
            Kernel: Linux 5.10.102-99.473.amzn2.x86_64
          Architecture: x86-64
[ec2-user@ip-172-31-94-159 ~]$ hostnamectl set-hostname pawana
Could not set property: The name org.freedesktop.PolicyKit1 was not provided by any .service files
[ec2-user@ip-172-31-94-159 ~]$ hostnamectl set-hostname docker
Could not set property: The name org.freedesktop.PolicyKit1 was not provided by any .service files
[ec2-user@ip-172-31-94-159 ~]$ sudo su -
[root@ip-172-31-94-159 ~]# hostnamectl set-hostname pawana
[root@ip-172-31-94-159 ~]# hostname
pawana
[root@ip-172-31-94-159 ~]# clear
```

At the bottom of the terminal window, there is a message: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>".

Created instance: Amazon Linux 2

Checked hostname using: `hostname`

Changed hostname using: `hostnamectl set-hostname pawana`

Days of DevOps

Task-2

The screenshot shows a terminal window titled '8.docker' running on a Linux system. The command entered was `sudo yum install docker -y`. The output shows the package manager resolving dependencies and installing several packages, including docker, containerd, libcgroup, pigz, and runc. The transaction summary at the end indicates 1 package installed and 4 dependent packages. The terminal window has a sidebar with session management and a taskbar at the bottom.

```
[root@ip-172-31-94-159 ~]# sudo yum install docker -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
amzn2extra-docker
amzn2extra-kernel-5.10
(1/7): amzn2-core/2/x86_64/group_gz
(2/7): amzn2-core/2/x86_64/updateinfo
(3/7): amzn2extra-kernel-5.10/2/x86_64/primary_db
(4/7): amzn2extra-docker/2/x86_64/updateinfo
(5/7): amzn2extra-docker/2/x86_64/primary_db
(6/7): amzn2extra-kernel-5.10/2/x86_64/updateinfo
(7/7): amzn2-core/2/x86_64/primary_db
Resolving Dependencies
--> Running transaction check
--> Package docker.x86_64 0:20.10.7-5.amzn2 will be installed
  Processing Dependency: runc >= 1.0.0 for package: docker-20.10.7-5.amzn2.x86_64
  Processing Dependency: libcgroup >= 0.40_rc1-5.15 for package: docker-20.10.7-5.amzn2.x86_64
  Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.7-5.amzn2.x86_64
  Processing Dependency: pigz for package: docker-20.10.7-5.amzn2.x86_64
--> Running transaction check
--> Package containerd.x86_64 0:1.4.6-8.amzn2 will be installed
--> Package libcgroup.x86_64 0:0.41-21.amzn2 will be installed
--> Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed
--> Package runc.x86_64 0:1.0.0-2.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch      Version            Repository          Size
=====
Installing:
  docker           x86_64   20.10.7-5.amzn2      amzn2extra-docker    42 M
Installing for dependencies:
  containerd       x86_64   1.4.6-8.amzn2        amzn2extra-docker    24 M
  libcgroup        x86_64   0.41-21.amzn2       amzn2-core           66 k
  pigz             x86_64   2.3.4-1.amzn2.0.1    amzn2-core           81 k
  runc             x86_64   1.0.0-2.amzn2        amzn2extra-docker    3.3 M

Transaction Summary
=====
Install 1 Package (+4 Dependent packages)

=====
Total download size: 69 M
Installed size: 285 M
Downloading packages:
(1/5): libcgroup-0.41-21.amzn2.x86_64.rpm          66 kB  00:00:00
(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm          81 kB  00:00:00
(3/5): containerd-1.4.6-8.amzn2.x86_64.rpm        24 MB  00:00:00
(4/5): runc-1.0.0-2.amzn2.x86_64.rpm              3.3 MB  00:00:00
(5/5): docker-20.10.7-5.amzn2.x86_64.rpm          42 MB  00:00:01

Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : runc-1.0.0-2.amzn2.x86_64          1/5
  Installing : containerd-1.4.6-8.amzn2.x86_64      2/5
  Installing : libcgroup-0.41-21.amzn2.x86_64       3/5
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64       4/5
  Installing : docker-20.10.7-5.amzn2.x86_64       5/5
  Verifying  : docker-20.10.7-5.amzn2.x86_64       1/5
  Verifying  : containerd-1.4.6-8.amzn2.x86_64      2/5
  Verifying  : runc-1.0.0-2.amzn2.x86_64            3/5
  Verifying  : pigz-2.3.4-1.amzn2.0.1.x86_64       4/5
  Verifying  : libcgroup-0.41-21.amzn2.x86_64       5/5

Installed:
  docker.x86_64 0:20.10.7-5.amzn2

Dependency Installed:
  containerd.x86_64 0:1.4.6-8.amzn2      libcgroup.x86_64 0:0.41-21.amzn2      pigz.x86_64 0:2.3.4-1.amzn2.0.1      runc.x86_64 0:1.0.0-2.amzn2

Complete!
[root@ip-172-31-94-159 ~]# docker --version
Docker version 20.10.7, build f0df350
```

Installed Docker using:`sudo yum install docker -y`

here -y is the yes for installing Docker on your instance ,in my case Linux machine

The screenshot shows a terminal window titled '8.docker' running on a Linux system. The command entered was `sudo yum install docker -y`. The output shows the package manager resolving dependencies and installing several packages, including docker, containerd, libcgroup, pigz, and runc. The transaction summary at the end indicates 1 package installed and 4 dependent packages. The terminal window has a sidebar with session management and a taskbar at the bottom.

```
[root@ip-172-31-94-159 ~]# sudo yum install docker -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
amzn2extra-docker
amzn2extra-kernel-5.10
(1/7): amzn2-core/2/x86_64/group_gz
(2/7): amzn2-core/2/x86_64/updateinfo
(3/7): amzn2extra-kernel-5.10/2/x86_64/primary_db
(4/7): amzn2extra-docker/2/x86_64/updateinfo
(5/7): amzn2extra-docker/2/x86_64/primary_db
(6/7): amzn2extra-kernel-5.10/2/x86_64/updateinfo
(7/7): amzn2-core/2/x86_64/primary_db
Resolving Dependencies
--> Running transaction check
--> Package docker.x86_64 0:20.10.7-5.amzn2 will be installed
  Processing Dependency: runc >= 1.0.0 for package: docker-20.10.7-5.amzn2.x86_64
  Processing Dependency: libcgroup >= 0.40_rc1-5.15 for package: docker-20.10.7-5.amzn2.x86_64
  Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.7-5.amzn2.x86_64
  Processing Dependency: pigz for package: docker-20.10.7-5.amzn2.x86_64
--> Running transaction check
--> Package containerd.x86_64 0:1.4.6-8.amzn2 will be installed
--> Package libcgroup.x86_64 0:0.41-21.amzn2 will be installed
--> Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed
--> Package runc.x86_64 0:1.0.0-2.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch      Version            Repository          Size
=====
Installing:
  docker           x86_64   20.10.7-5.amzn2      amzn2extra-docker    42 M
Installing for dependencies:
  containerd       x86_64   1.4.6-8.amzn2        amzn2extra-docker    24 M
  libcgroup        x86_64   0.41-21.amzn2       amzn2-core           66 k
  pigz             x86_64   2.3.4-1.amzn2.0.1    amzn2-core           81 k
  runc             x86_64   1.0.0-2.amzn2        amzn2extra-docker    3.3 M

Transaction Summary
=====
Install 1 Package (+4 Dependent packages)

=====
Total download size: 69 M
Installed size: 285 M
Downloading packages:
(1/5): libcgroup-0.41-21.amzn2.x86_64.rpm          66 kB  00:00:00
(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm          81 kB  00:00:00
(3/5): containerd-1.4.6-8.amzn2.x86_64.rpm        24 MB  00:00:00
(4/5): runc-1.0.0-2.amzn2.x86_64.rpm              3.3 MB  00:00:00
(5/5): docker-20.10.7-5.amzn2.x86_64.rpm          42 MB  00:00:01

Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : runc-1.0.0-2.amzn2.x86_64          1/5
  Installing : containerd-1.4.6-8.amzn2.x86_64      2/5
  Installing : libcgroup-0.41-21.amzn2.x86_64       3/5
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64       4/5
  Installing : docker-20.10.7-5.amzn2.x86_64       5/5
  Verifying  : docker-20.10.7-5.amzn2.x86_64       1/5
  Verifying  : containerd-1.4.6-8.amzn2.x86_64      2/5
  Verifying  : runc-1.0.0-2.amzn2.x86_64            3/5
  Verifying  : pigz-2.3.4-1.amzn2.0.1.x86_64       4/5
  Verifying  : libcgroup-0.41-21.amzn2.x86_64       5/5

Installed:
  docker.x86_64 0:20.10.7-5.amzn2

Dependency Installed:
  containerd.x86_64 0:1.4.6-8.amzn2      libcgroup.x86_64 0:0.41-21.amzn2      pigz.x86_64 0:2.3.4-1.amzn2.0.1      runc.x86_64 0:1.0.0-2.amzn2

Complete!
[root@ip-172-31-94-159 ~]# docker --version
Docker version 20.10.7, build f0df350
```

Checking Docker version using: `docker --version`

Days of DevOps

Task-2

```
[root@pawan ~]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
     Active: inactive (dead)
       Docs: https://docs.docker.com

[root@pawan ~]# systemctl start docker
[root@pawan ~]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
     Active: active (running) since Wed 2022-03-16 13:56:04 UTC; 12s ago
       Docs: https://docs.docker.com

Mar 16 13:56:04 pawan dockerd[3800]: time="2022-03-16T13:56:04.378952607Z" level=info msg="API listen on /run/docker.sock"
Hint: Some lines were ellipsized, use -l to show in full.

[root@pawan ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
[root@pawan ~]#
```

Checking status of docker after installing: **systemctl status docker**

If disabled then to start: **systemctl start docker**

Checking image inside docker if any: **docker image ls**

```
[root@pawan ~]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2022-03-16 13:58:04 UTC; 22s ago
       Docs: https://docs.docker.com

Mar 16 13:58:04 pawan dockerd[3343]: time="2022-03-16T13:58:04.337686552Z" level=info msg="API listen on /run/docker.sock"
Hint: Some lines were ellipsized, use -l to show in full.

[root@pawan ~]# systemctl enable docker
Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to /usr/lib/systemd/system/docker.service.

[root@pawan ~]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2022-03-16 13:58:04 UTC; 22s ago
       Docs: https://docs.docker.com

Mar 16 13:58:04 pawan dockerd[3343]: time="2022-03-16T13:58:04.337686552Z" level=info msg="API listen on /run/docker.sock"
Hint: Some lines were ellipsized, use -l to show in full.

[root@pawan ~]#
```

If we want our docker to remain in start state even after the instance is stopped and then started again so we use the command: **systemctl enable docker**

Days of DevOps

Task-2

The screenshot shows a MobaXterm window titled 'docker'. The terminal session displays the following output:

```
[root@pawan ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
[root@pawan ~]# docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:4c5f3db4f8a54eb1e017c385ff683a2de6e06f75be442dc32698c9bbe6c861edd
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
[root@pawan ~]#
```

The terminal window has a sidebar with 'Session' and 'Servers' tabs, and a bottom status bar indicating 'UNREGISTERED VERSION'.

Here I pulled the “hello-world” image from docker hub using: **docker pull hello-world:<version>**

Then ran the image using: **docker run hello-world**

The screenshot shows a MobaXterm window titled 'docker'. The terminal session displays the following output:

```
[root@pawan ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest feb5d9fea6a5 5 months ago 13.3kB
[root@pawan ~]#
```

The terminal window has a sidebar with 'Session' and 'Servers' tabs, and a bottom status bar indicating 'UNREGISTERED VERSION'.

Checking image inside our docker: **docker image ls**

Days of DevOps

Task-2

MobaXterm Personal Edition v22.0
(SSH client, X server and network tools)

SSH session to ec2-user@54.163.133.0

- Direct SSH : ✓
- SSH compression : ✓
- SSH-browser : ✓
- X11-forwarding : ✘ (disabled or not supported by server)

Last login: Wed Mar 16 13:55:04 2022 from 139.167.211.13

```
[ec2-user@pawan ~]$ sudo su -
[ec2-user@pawan ~]$ ls
[ec2-user@pawan ~]$ docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest feb5d9fea6a5 5 months ago 13.3kB
[ec2-user@pawan ~]$ docker pull ubuntu:latest
latest: Pulling from library/ubuntu
7c3b88808835: Pull complete
Digest: sha256:8ae9bafb64f63a50aab98fd3a5e37b3eb837a3e0780b78e5218e63193961f9
Status: Downloaded newer image for ubuntu:latest
[ec2-user@pawan ~]$ docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 2b4cba85892a 12 days ago 72.8MB
hello-world latest feb5d9fea6a5 5 months ago 13.3kB
[ec2-user@pawan ~]$ 
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Windows taskbar icons: File Explorer, Task View, Start, Taskbar settings, Taskbar search, Taskbar pinned items, Taskbar status bar.

To rename hostname or to perform all these pulling tasks and all we need the root power or the sudo power for that the command is: **sudo su –**

Now I pulled ubuntu image in docker using the command: **docker pull ubuntu:<version>**

```
[root@pawan ~]# cal
March 2022
Su Mo Tu We Th Fr Sa
      1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31

[root@pawan ~]# echo pawan
pawan
[root@pawan ~]# clear
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Windows taskbar icons: File Explorer, Task View, Start, Taskbar settings, Taskbar search, Taskbar pinned items, Taskbar status bar.

Trying some of the basic commands like: **cal** -for calander & **echo** to revert what we give input

Days of DevOps

Task-2

```
[root@pawan ~]# ping 54.163.133.0
PING 54.163.133.0 (54.163.133.0) 56(84) bytes of data.
64 bytes from 54.163.133.0: icmp_seq=1 ttl=63 time=0.428 ms
64 bytes from 54.163.133.0: icmp_seq=2 ttl=63 time=0.594 ms
64 bytes from 54.163.133.0: icmp_seq=3 ttl=63 time=0.553 ms
64 bytes from 54.163.133.0: icmp_seq=4 ttl=63 time=0.550 ms
64 bytes from 54.163.133.0: icmp_seq=5 ttl=63 time=0.456 ms
64 bytes from 54.163.133.0: icmp_seq=6 ttl=63 time=0.450 ms
64 bytes from 54.163.133.0: icmp_seq=7 ttl=63 time=0.440 ms
64 bytes from 54.163.133.0: icmp_seq=8 ttl=63 time=0.495 ms
64 bytes from 54.163.133.0: icmp_seq=9 ttl=63 time=0.437 ms
64 bytes from 54.163.133.0: icmp_seq=10 ttl=63 time=0.487 ms
64 bytes from 54.163.133.0: icmp_seq=11 ttl=63 time=0.497 ms
64 bytes from 54.163.133.0: icmp_seq=12 ttl=63 time=0.442 ms
64 bytes from 54.163.133.0: icmp_seq=13 ttl=63 time=0.427 ms
64 bytes from 54.163.133.0: icmp_seq=14 ttl=63 time=0.452 ms
64 bytes from 54.163.133.0: icmp_seq=15 ttl=63 time=0.440 ms
64 bytes from 54.163.133.0: icmp_seq=16 ttl=63 time=0.432 ms
^C
--- 54.163.133.0 ping statistics ---
16 packets transmitted, 16 received, 0% packet loss, time 15343ms
rtt min/avg/max/mdev = 0.427/0.473/0.594/0.053 ms
[root@pawan ~]# from ubuntu image inside docker //.....
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

```
[root@pawan ~]# docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
d8625a01b69c        ubuntu:latest      "bash"              2 minutes ago     Exited (0) 2 minutes ago   nervous_fermi
bef1812097f9        hello-world       "/hello"            11 minutes ago    Exited (0) 11 minutes ago  descending_lovelace
[root@pawan ~]#
```

docker ps -a this command help to check which image is in running state and which is in exited state inside the docker software

Days of DevOps

Task-2

The screenshot shows a MobaXterm window titled "9 docker". The terminal session displays the following Docker commands:

```
[ec2-user@pawan ~]$ docker image ls
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://<ip>/v1.24/images/json": dial unix /var/run/docker.sock: connect: permission denied
[ec2-user@pawan ~]$ sudo su
Last login: Wed Mar 16 14:13:50 UTC 2022 on pts/1
[root@pawan ~]# docker version
Docker version 20.10.7, build 700f350
[root@pawan ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 2b4cba05892a 12 days ago 72.8MB
hello-world latest febd5d9fead5 5 months ago 13.3kB
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d8625a01b69c ubuntu:latest "bash" 16 minutes ago Exited (0) 16 minutes ago
be1812097f9 hello-world "/hello" 24 minutes ago Exited (0) 24 minutes ago
[root@pawan ~]#
```

At the bottom of the terminal, there is a message: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>".

The screenshot shows a MobaXterm window titled "9.docker". The terminal session displays the following command:

```
root@dd67f7c55cea:/# hostname
```

At the bottom of the terminal, there is a message: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>".

Now using `docker run ubuntu:latest` I got inside my ubuntu image

Days of DevOps

Task-2

```
root@667f7c55cea:/# hostname
d667f7c55cea
root@667f7c55cea:/# cal
bash: cal: command not found
root@667f7c55cea:/# date
Wed May 16 14:33:33 UTC 2022
root@667f7c55cea:/# time
real    0m0.000s
user    0m0.000s
sys     0m0.000s
root@667f7c55cea:/#
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Windows taskbar icons are visible at the bottom.

As you can see the **hostname** is changed and I too performed some commands of ubuntu OS.

```
root@71a056f4dfc:/# ls -a
. . .
root@71a056f4dfc:/#
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Windows taskbar icons are visible at the bottom.

Checking inside the ubuntu **root directory** by using list command **ls -a**, here **-a** shows all the hidden files and folders.

Days of DevOps

Task-2

The screenshot shows a MobaXterm session titled "10.docker". The terminal window displays the output of the "docker ps" command on a root shell. The output shows one container named "quizzical_liskov" running an "ubuntu:latest" image with the command "bash". The session sidebar shows a file tree for "/home/ec2-user/" with files like ".ssh", ".bash_history", ".bash_logout", ".bash_profile", and ".bashrc". The taskbar at the bottom includes icons for various Windows applications and system status indicators.

```
root@71a856f4dfe:/# exit
exit
[root@pawan ~]# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d667fc5cea ubuntu:latest "bash" 15 minutes ago Up 15 minutes quizzical_liskov
[root@pawan ~]#
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

The screenshot shows a MobaXterm session titled "11.docker". The terminal window displays the output of the "docker run -it centos:latest" command on a root shell. The user runs several basic commands: "hostname", "clear", "cal" (calendar), "date", "time", and "ls". The session sidebar shows a file tree for "/home/ec2-user/" with files like ".ssh", ".bash_history", ".bash_logout", ".bash_profile", and ".bashrc". The taskbar at the bottom includes icons for various Windows applications and system status indicators.

```
[root@pawan ~]# docker run -it centos:latest
[root@5d9b67301099 /]# hostname
5d9b67301099
[root@5d9b67301099 /]# clear
bash: clear: command not found
[root@5d9b67301099 /]# cls
bash: cls: command not found
[root@5d9b67301099 /]# clear
bash: clear: command not found
[root@5d9b67301099 /]# cal
March 2022
Su M Tu We Th Fr Sa
      1  2  3  4  5
  6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31

[root@5d9b67301099 /]# date
Wed Mar 16 15:41:31 UTC 2022
[root@5d9b67301099 /]# time

real 0m0.000s
user 0m0.000s
sys 0m0.000s
[root@5d9b67301099 /]# ls
bin dev etc home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var
[root@5d9b67301099 /]#
```

Like wisely I tried pulling centos image and ran it too using: `docker run -it centos:latest`

Here `-it` means that I'm using terminal as well as I'm interacting with the centos.

Used some basic commands like cal, date, time.

Days of DevOps

Task-2

```
[root@pawan ~]# docker image ls -a
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 2b4cba05892a 12 days ago 72.8MB
hello-world latest feb5d9fead65 5 months ago 13.3kB
centos latest 5d0da3dc9764 6 months ago 231MB

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
03db621cf2ed ubuntu:latest "bash" About a minute ago Exited (0) 27 seconds ago happy_brattain
5d9b67301099 centos:latest "/bin/bash" 2 minutes ago Exited (0) 2 minutes ago relaxed_payne
a7c930c9350a ubuntu:latest "bash" 21 minutes ago Up 21 minutes elated_carson
768c6d1d8193 ubuntu:latest "bash" 55 minutes ago Up 55 minutes eloquent_torvalds
871a85f64dfe ubuntu:latest "bash" 57 minutes ago Exited (0) 56 minutes ago cool_jennings
edcab8d4b902 ubuntu:latest "bash" 58 minutes ago Exited (127) 57 minutes ago quizzical_ramanujan
d667f7c5cea ubuntu:latest "bash" About an hour ago Up About an hour quizzical_liskov
d8625a01b69c ubuntu:latest "bash" About an hour ago Exited (0) About an hour ago condescending_lovelace
bef1812097f9 hello-world "/hello" 2 hours ago Exited (0) 2 hours ago nervous_fermi

[root@pawan ~]#
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

```
save Save one or more images to a tar archive (streamed to STDOUT by default)
search Search the Docker Hub for images
start Start one or more stopped containers
stats Display a live stream of container(s) resource usage statistics
stop Stop one or more running containers
tag Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
top Display the running processes of a container
unpause Unpause all processes within one or more containers
update Update configuration of one or more containers
version Show the Docker version information
wait Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

To get more help with docker, check out our guides at https://docs.docker.com/go/guides/
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
03db621cf2ed ubuntu:latest "bash" 21 minutes ago Exited (0) 20 minutes ago happy_brattain
5d9b67301099 centos:latest "/bin/bash" 22 minutes ago Exited (0) 21 minutes ago relaxed_payne
a7c930c9350a ubuntu:latest "bash" 41 minutes ago Up 41 minutes elated_carson
768c6d1d8193 ubuntu:latest "bash" About an hour ago Up About an hour eloquent_torvalds
871a85f64dfe ubuntu:latest "bash" About an hour ago Exited (0) About an hour ago cool_jennings
edcab8d4b902 ubuntu:latest "bash" About an hour ago Exited (127) About an hour ago quizzical_ramanujan
d667f7c5cea ubuntu:latest "bash" 2 hours ago Up 2 hours quizzical_liskov
d8625a01b69c ubuntu:latest "bash" 2 hours ago Exited (0) 2 hours ago condescending_lovelace
bef1812097f9 hello-world "/hello" 2 hours ago Exited (0) 2 hours ago nervous_fermi

[root@pawan ~]# docker stop a7c930c9350a
a7c930c9350a
[root@pawan ~]# docker stop d667f7c5cea
d667f7c5cea
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
03db621cf2ed ubuntu:latest "bash" 22 minutes ago Exited (0) 21 minutes ago happy_brattain
5d9b67301099 centos:latest "/bin/bash" 23 minutes ago Exited (0) 23 minutes ago relaxed_payne
a7c930c9350a ubuntu:latest "bash" 42 minutes ago Exited (0) 37 seconds ago elated_carson
768c6d1d8193 ubuntu:latest "bash" About an hour ago Up About an hour eloquent_torvalds
871a85f64dfe ubuntu:latest "bash" About an hour ago Exited (0) About an hour ago cool_jennings
edcab8d4b902 ubuntu:latest "bash" About an hour ago Exited (127) About an hour ago quizzical_ramanujan
d667f7c5cea ubuntu:latest "bash" 2 hours ago Exited (0) 5 seconds ago quizzical_liskov
d8625a01b69c ubuntu:latest "bash" 2 hours ago Exited (0) 2 hours ago condescending_lovelace
bef1812097f9 hello-world "/hello" 2 hours ago Exited (0) 2 hours ago nervous_fermi

[root@pawan ~]#
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

After running different images and exiting them , again checking the states of the images either in running state or exited state.

Same we can stop a container by: **docker stop <container id>**

Days of DevOps

Task-2

The screenshot shows a terminal window titled '13_docker' within the MobaXterm application. The terminal displays the following Docker commands and their outputs:

```
[root@pawan ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 2b4cba85892a 12 days ago 72.8MB
hello-world latest feb5d9fe6a5 5 months ago 13.3kB
centos latest 5dd0da3dc9764 6 months ago 231MB

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
03db621cf2ed ubuntu:latest "bash" 28 minutes ago Exited (0) 27 minutes ago
5d9b67301099 centos:latest "/bin/bash" 29 minutes ago Exited (0) 29 minutes ago
a7c930c9350a ubuntu:latest "bash" 48 minutes ago Exited (0) 6 minutes ago
768c6d1d8193 ubuntu:latest "bash" About an hour ago Up About an hour
871a856f4dfe ubuntu:latest "bash" About an hour ago Exited (0) About an hour ago
edcab8d4b902 ubuntu:latest "bash" About an hour ago Exited (127) About an hour ago
d667f7c5cea ubuntu:latest "bash" 2 hours ago Exited (0) 6 minutes ago
d8625a01b69c ubuntu:latest "bash" 2 hours ago Exited (0) 2 hours ago
bef1812097f9 hello-world "/hello" 2 hours ago Exited (0) 2 hours ago

[root@pawan ~]# docker rm 03db621cf2ed
03db621cf2ed

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
5d9b67301099 centos:latest "/bin/bash" 30 minutes ago Exited (0) 29 minutes ago
a7c930c9350a ubuntu:latest "bash" 49 minutes ago Exited (0) 7 minutes ago
Up About an hour
768c6d1d8193 ubuntu:latest "bash" About an hour ago Exited (0) About an hour ago
871a856f4dfe ubuntu:latest "bash" About an hour ago Exited (127) About an hour ago
d667f7c5cea ubuntu:latest "bash" 2 hours ago Exited (0) 6 minutes ago
d8625a01b69c ubuntu:latest "bash" 2 hours ago Exited (0) 2 hours ago
bef1812097f9 hello-world "/hello" 2 hours ago Exited (0) 2 hours ago

[root@pawan ~]#
```

At the bottom of the terminal, there is a note: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>".

We can delete a container by using **docker rm <container id>**

Although we have to stop a container and then we can delete it, but we can forcefully delete a container by the command: **docker rm <container id> -f**

Here **-f** is for forcefully giving the command or force remove.

The screenshot shows a terminal window titled '13_docker' within the MobaXterm application. The terminal displays the following Docker commands and their outputs, including an error message:

```
[root@pawan ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 2b4cba85892a 12 days ago 72.8MB
hello-world latest feb5d9fe6a5 5 months ago 13.3kB
centos latest 5dd0da3dc9764 6 months ago 231MB

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
03db621cf2ed ubuntu:latest "bash" 28 minutes ago Exited (0) 27 minutes ago
5d9b67301099 centos:latest "/bin/bash" 29 minutes ago Exited (0) 29 minutes ago
a7c930c9350a ubuntu:latest "bash" 48 minutes ago Exited (0) 6 minutes ago
768c6d1d8193 ubuntu:latest "bash" About an hour ago Up About an hour
871a856f4dfe ubuntu:latest "bash" About an hour ago Exited (0) About an hour ago
edcab8d4b902 ubuntu:latest "bash" About an hour ago Exited (127) About an hour ago
d667f7c5cea ubuntu:latest "bash" 2 hours ago Exited (0) 6 minutes ago
d8625a01b69c ubuntu:latest "bash" 2 hours ago Exited (0) 2 hours ago
bef1812097f9 hello-world "/hello" 2 hours ago Exited (0) 2 hours ago

[root@pawan ~]# docker rm 03db621cf2ed
03db621cf2ed

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
5d9b67301099 centos:latest "/bin/bash" 30 minutes ago Exited (0) 29 minutes ago
a7c930c9350a ubuntu:latest "bash" 49 minutes ago Exited (0) 7 minutes ago
Up About an hour
768c6d1d8193 ubuntu:latest "bash" About an hour ago Exited (0) About an hour ago
871a856f4dfe ubuntu:latest "bash" About an hour ago Exited (127) About an hour ago
d667f7c5cea ubuntu:latest "bash" 2 hours ago Exited (0) 6 minutes ago
d8625a01b69c ubuntu:latest "bash" 2 hours ago Exited (0) 2 hours ago
bef1812097f9 hello-world "/hello" 2 hours ago Exited (0) 2 hours ago

[root@pawan ~]# docker rm 768c6d1d8193
Error response from daemon: You cannot remove a running container 768c6d1d8193:9aa979aaefbc615d7a29cf56013ad8be213f316d3ab3b54e42d7. Stop the container before attempting removal or force remove
[root@pawan ~]# docker rm 768c6d1d8193 -f
768c6d1d8193
[root@pawan ~]#
```

At the bottom of the terminal, there is a note: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>".

Days of DevOps

Task-2

The screenshot shows a terminal window in MobaXterm with the title '13. docker'. The command `docker image ls` is run, listing three images: 'ubuntu' (latest), 'hello-world' (latest), and 'centos' (latest). Then, `docker ps -a` is run, showing two containers: 'centos:latest' and 'hello-world:latest'. Finally, `docker rm` is used to remove the 'centos' container, which exits with status 0.

```
[root@pawan ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu      latest  2b4cba85892a 12 days ago 72.8MB
hello-world latest  feb5d9f9eada5 5 months ago 13.3kB
centos      latest  5d0da3dc9764  6 months ago 231MB

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
924a0dea705f centos:latest "/bin/bash" 2 minutes ago Exited (127) 2 minutes ago
6a5d9f86c04c hello-world:latest "/hello"   3 minutes ago Exited (0) 3 minutes ago

[root@pawan ~]# docker rm 924a0dea705f 6a5d9f86c04c
924a0dea705f
6a5d9f86c04c

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
[root@pawan ~]# docker rmi hello-world
Untagged: hello-world:latest
Untagged: hello-world@sha256:4c5f13db4f8a54eb1e017c385f683a2de6e06f75be442dc32698c9bbe6c861edd
Deleted: sha256:feb5d9fea6a5e9606aa995e879d862b25965ba48de054caab5ef356dc6b3412
Deleted: sha256:e07ee1baac5fae6a26f130cabfe54a36d3402f96afda318fe0a9cec4ca393359

[root@pawan ~]# docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu      latest  2b4cba85892a 12 days ago 72.8MB
centos      latest  5d0da3dc9764  6 months ago 231MB

[root@pawan ~]#
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

We can remove a container image from the docker by the command: `docker rmi <image name:>version>`

The screenshot shows a terminal window in MobaXterm with the title '13. docker'. The command `docker ps -a` is run, listing four containers: 'centos:latest' (status Exited), 'elegant_einstein' (status Exited), 'wonderful_banzai' (status Exited), and 'elegant_einstein' (status Exited). Then, `docker ps -a` is run again, showing the same four containers. Finally, `docker ps -d -t centos:latest` is run, resulting in an error message about the '-d' shorthand flag.

```
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
[root@pawan ~]# docker run centos:latest
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
6f73df4e85f5 centos:latest "/bin/bash" 5 seconds ago Exited (0) 4 seconds ago
[root@pawan ~]# docker run -d centos:latest
c05c9143ad6f920hc200afbf24095326ff5c05584463ba26956a65ec3caa9d6d
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
c05c9143ad6f920hc200afbf24095326ff5c05584463ba26956a65ec3caa9d6d
6f73df4e85f5 centos:latest "/bin/bash" 4 seconds ago Exited (0) 3 seconds ago
6f73df4e85f5 centos:latest "/bin/bash" 28 seconds ago Exited (0) 27 seconds ago
[root@pawan ~]# docker ps -d -t centos:latest
unknown shorthand flag: 'd' in -dit
See 'docker ps --help'.
[root@pawan ~]# docker ps --help

Usage: docker ps [OPTIONS]

List containers

Options:
-a, --all          Show all containers (default shows just running)
-f, --filter filter Filter output based on conditions provided
--format string    Pretty-print containers using a Go template
-n, --last int     Show n last created containers (includes all states) (default -1)
-l, --latest        Show the latest created container (includes all states)
--no-trunc         Don't truncate output
-q, --quiet        Only display container IDs
-s, --size          Display total file sizes

[root@pawan ~]# docker run -d -it centos:latest
d24ae93c55dbde70254bf503208bbada60e1d311c49a09b7aad34161b2573970
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d24ae93c55db centos:latest "/bin/bash" 8 seconds ago Up 7 seconds
c05c9143ad6f centos:latest "/bin/bash" 2 minutes ago Exited (0) 2 minutes ago
6f73df4e85f5 centos:latest "/bin/bash" 2 minutes ago Exited (0) 2 minutes ago
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

If we wish to run our container in background so we use the command: `docker run -d -it image name:<version>`

Here `-d` is for running the container in background.

Days of DevOps

Task-2

The screenshot shows a terminal window titled '13.docker' in MobaXterm. The user is root on a system named 'pawan'. They run several Docker commands:

```
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d24ae93c55db centos:latest "/bin/bash" About a minute ago Up About a minute
c05c9143a4d6 centos:latest "/bin/bash" 3 minutes ago Exited (0) 3 minutes ago
6f73df4e85f5 centos:latest "/bin/bash" 4 minutes ago Exited (0) 4 minutes ago

[root@pawan ~]# docker rm centos:latest
Error: No such container: centos:latest

[root@pawan ~]# docker rm d24ae93c55db
Error response from daemon: You cannot remove a running container d24ae93c55dbde70254bf503208b8ada60e1d311c49a09b7aad34161b2573970. Stop the container before attempting removal or force remove

[root@pawan ~]# docker rm d24ae93c55db -f
d24ae93c55db

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
c05c9143a4d6 centos:latest "/bin/bash" 5 minutes ago Exited (0) 5 minutes ago
6f73df4e85f5 centos:latest "/bin/bash" 5 minutes ago Exited (0) 5 minutes ago

[root@pawan ~]# docker rm c05c9143a4d6 6f73df4e85f5
c05c9143a4d6
6f73df4e85f5

[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
[root@pawan ~]# docker image ls -a
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 2b4cba85892a 12 days ago 72.8MB
centos latest 5d0da3dc9764 6 months ago 231MB

[root@pawan ~]#
```

At the bottom, there is a message: 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>'.

The screenshot shows a terminal window titled '13.docker' in MobaXterm. The user is on an EC2 instance, running as 'ec2-user'. They run several Docker commands:

```
[ec2-user@pawan ~]$ ls
[ec2-user@pawan ~]$ ls -a
. . . .bash_history .bash_logout .bash_profile .bashrc .ssh
[ec2-user@pawan ~]$ docker image ls -a
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://<ip>/v1.24/images/json?all=1": dial unix /var/run/docker.sock: connect: permission denied
[ec2-user@pawan ~]$ sudo su -
Last login: Wed Mar 16 16:32:26 UTC 2022 on pts/0
[root@pawan ~]# docker image ls -a
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 2b4cba85892a 12 days ago 72.8MB
centos latest 5d0da3dc9764 6 months ago 231MB

[root@pawan ~]# docker image --help
Usage: docker image COMMAND

Manage images

Commands:
build      Build an image from a Dockerfile
history   Show the history of an image
import    Import the contents from a tarball to create a filesystem image
inspect   Display detailed information on one or more images
load      Load an image from a tar archive or STDIN
ls        List images
prune     Remove unused images
pull      Pull an image or a repository from a registry
push      Push an image or a repository to a registry
rm       Remove one or more images
save     Save one or more images to a tar archive (streamed to STDOUT by default)
tag       Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

Run 'docker image COMMAND --help' for more information on a command.
[root@pawan ~]# clear
```

At the bottom, there is a message: 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>'.

```
[root@pawan ~]# docker pull hackcoderr/apache:v1
v1: Pulling from hackcoderr/apache
7c3b88808835: Already exists
31d3d9687c77: Pull complete
b45583fcfd3e: Pull complete
754077c1c00f: Pull complete
d2b20e1f020e: Pull complete
ab5dbbd010: Pull complete
378b07f20519: Pull complete
87d4d6197d45: Pull complete
Digest: sha256:385e836e6a493ffe09c76cbac0f0037bb09b5b6f4a6d4f41a1f4dea0d8c44466
Status: Downloaded newer image for hackcoderr/apache:v1
docker.io/hackcoderr/apache:v1
[root@pawan ~]# ls -a
.: .. .bash_history .bash_logout .bash_profile .bashrc .cshrc .ssh .tcshrc web-server
[root@pawan ~]# docker run -dit --name pulled-image -p 80:80 hackcoderr/apache:v1
eebac1bed9f124d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9
[root@pawan ~]#
```

Task starts here:

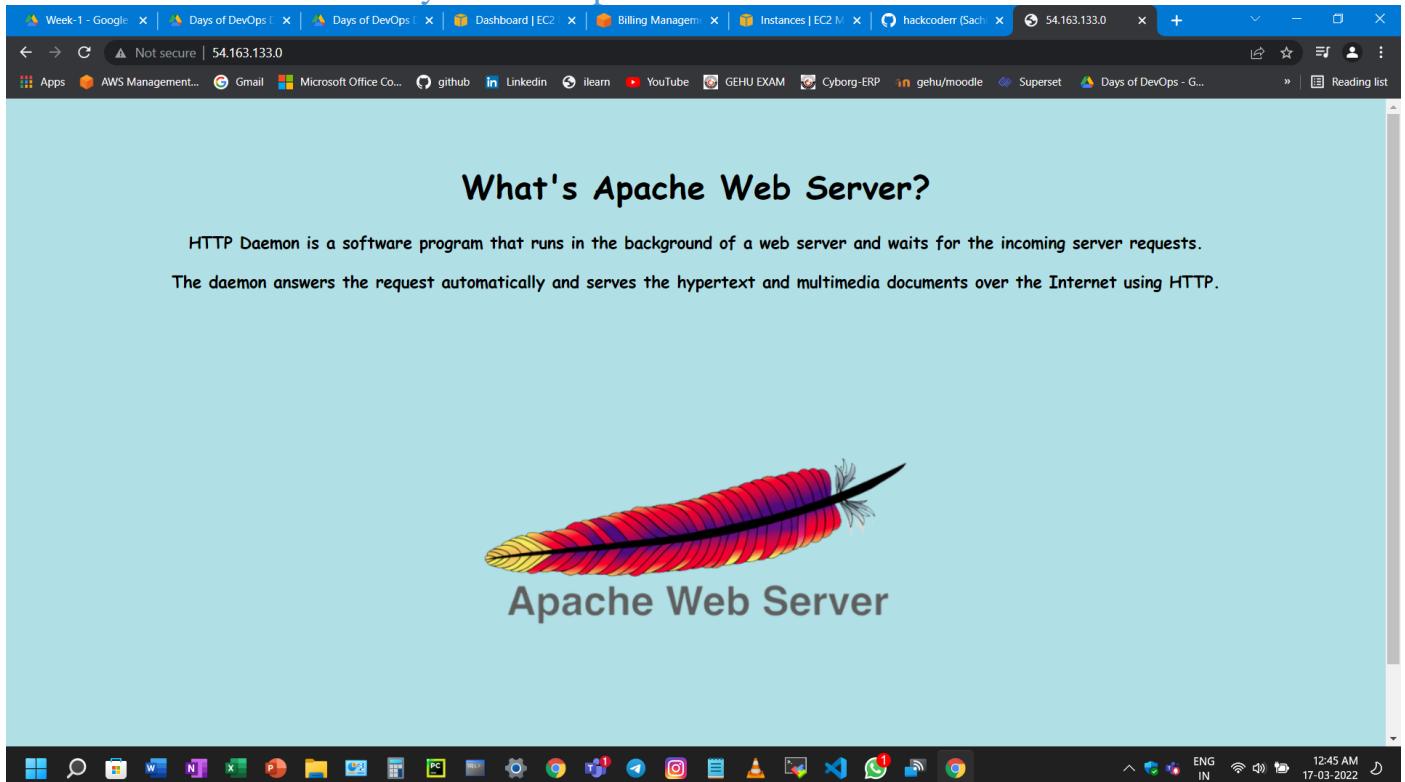
Pulled the apache:v1 image using the command: **docker pull hackcoderr/apache:v1**

Now ran the image using the command: **docker run -dit --name <image name as per our wish> -p 80:80 hackcoderr/apache:v1**

-dit : we using terminal +interacting with the container + running the container in background

-- name<> : giving name to the container as per user choice

-p : port at which we wish to run or launch the container



Now what I did is I copied the public ip of my instance after running the apache:v1 image and then pasted it in chrome and hitted enter.

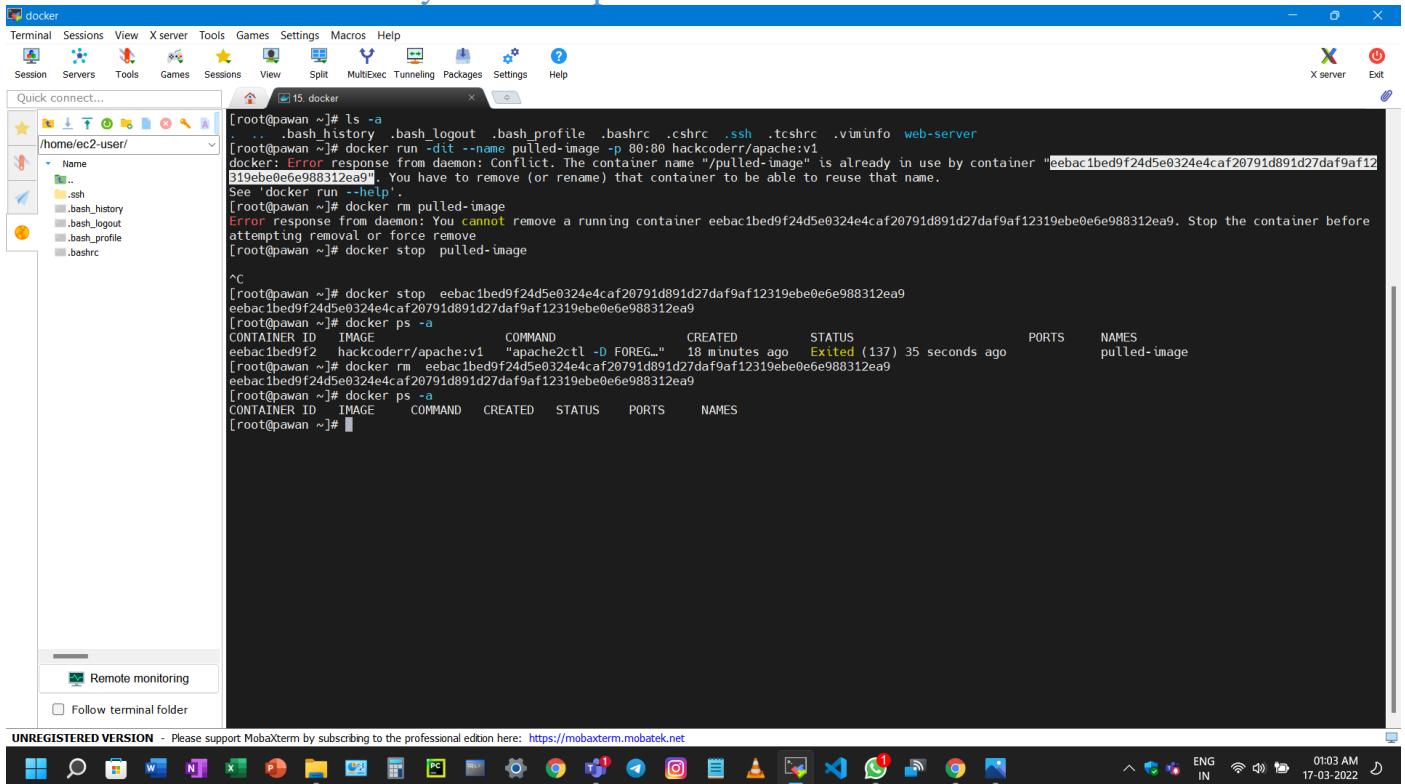
Apache:v1 contain a file called **index.html** where some code was written and it got executed when I deployed the public IP of the instance on mentioned **port 80:80**

```
[root@pawan ~]# docker image ls
REPOSITORY          TAG      IMAGE ID   CREATED        SIZE
hackcoderr/apache   v1      2688a2115e9f   8 days ago   220MB
ubuntu              latest   2b4cba5892a   12 days ago  72.8MB
centos              latest   5d6da3dc9764   6 months ago  231MB
[root@pawan ~]#
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

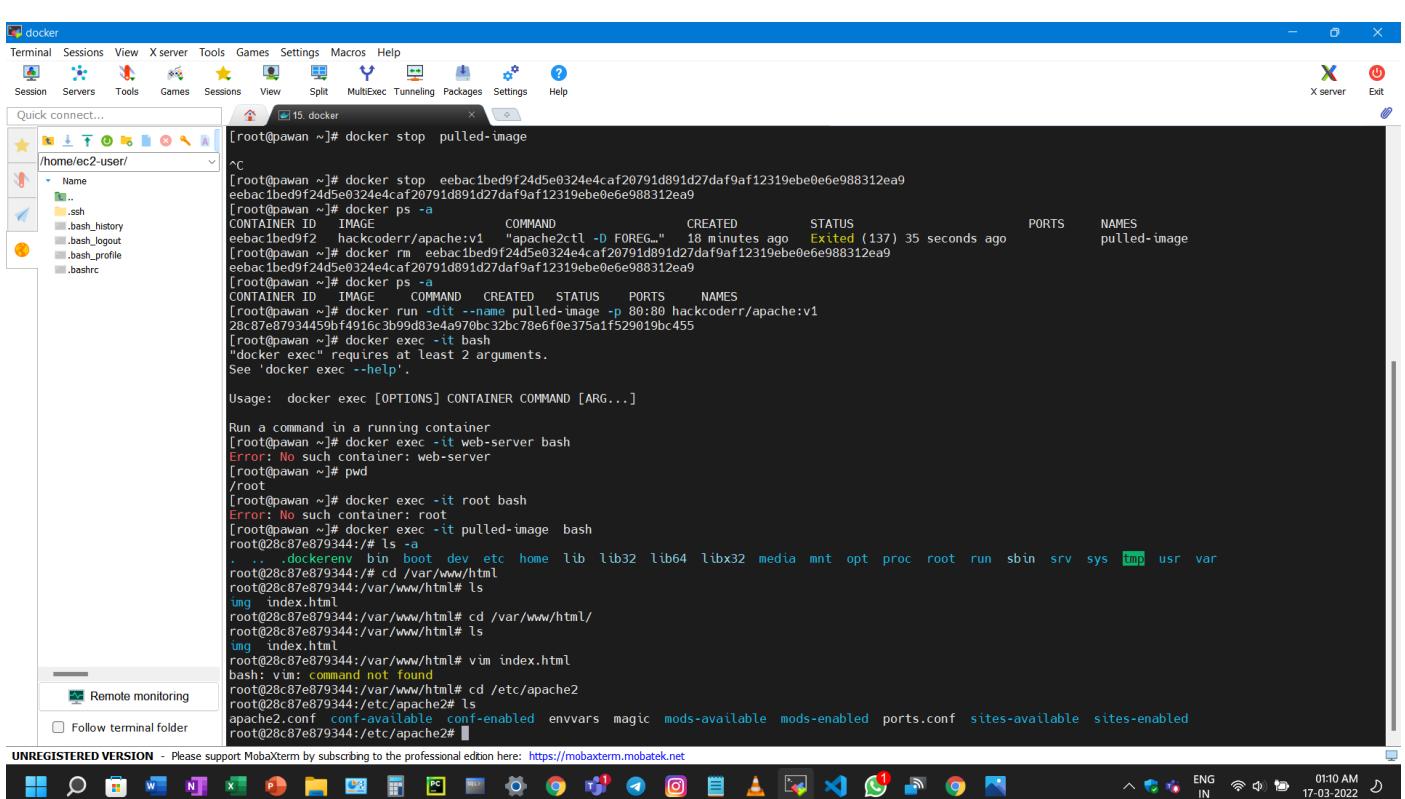
Days of DevOps

Task-2



```
[root@pawan ~]# ls -a
.bash_history .bash_logout .bash_profile .bashrc .cshrc .tcshrc .viminfo web-server
[root@pawan ~]# docker run -dit -name pulled-image -p 80:80 hackcoderr/apache:v1
Error: response from daemon: Conflict. The container name "/pulled-image" is already in use by container "eebac1bed9f24d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
[root@pawan ~]# docker rm pulled-image
Error: response from daemon: You cannot remove a running container eebac1bed9f24d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9. Stop the container before attempting removal or force remove.
[root@pawan ~]# docker stop pulled-image
^C
[root@pawan ~]# docker stop eebac1bed9f24d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
eebac1bed9f24d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9
[root@pawan ~]# docker rm eebac1bed9f24d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
[root@pawan ~]#
```

UNREGISTERED VERSION - Please support MobaTerm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>



```
[root@pawan ~]# docker stop pulled-image
^C
[root@pawan ~]# docker stop eebac1bed9f24d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
eebac1bed9f24d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9
[root@pawan ~]# docker rm eebac1bed9f24d5e0324e4caf20791d891d27daf9af12319eb0e6e988312ea9
[root@pawan ~]# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
[root@pawan ~]# docker run -dit -name pulled-image -p 80:80 hackcoderr/apache:v1
28c87e879344:59bfa916c3b99d83e4970bc32bc78e6f0e375af529019bc455
[root@pawan ~]# docker exec -it bash
"docker exec" requires at least 2 arguments.
See 'docker exec --help'.
Usage: docker exec [OPTIONS] CONTAINER COMMAND [ARG...]
Run a command in a running container
[root@pawan ~]# docker exec -it web-server bash
Error: No such container: web-server
[root@pawan ~]# pwd
/root
[root@pawan ~]# docker exec -it root bash
Error: No such container: root
[root@pawan ~]# docker exec -it pulled-image bash
root@28c87e879344:/# ls -a
. .. .dockermen bin boot dev etc home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys tmp usr var
root@28c87e879344:/# cd /var/www/html
root@28c87e879344:/var/www/html# ls
index.html
root@28c87e879344:/var/www/html# cd /var/www/html/
root@28c87e879344:/var/www/html# ls
index.html
root@28c87e879344:/var/www/html# vim index.html
bash: vim: command not found
root@28c87e879344:/var/www/html# cd /etc/apache2
root@28c87e879344:/etc/apache2# ls
apache2.conf conf-available conf-enabled envvars magic mods-available mods-enabled ports.conf sites-available sites-enabled
root@28c87e879344:/etc/apache2#
```

UNREGISTERED VERSION - Please support MobaTerm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Now I stopped the container using the command: **docker stop <image name as user gave>**

Now what I did was I get inside of that image using **docker exec -it <image name> bash**

What actually this command did is got me inside the apache:v1 container image ,

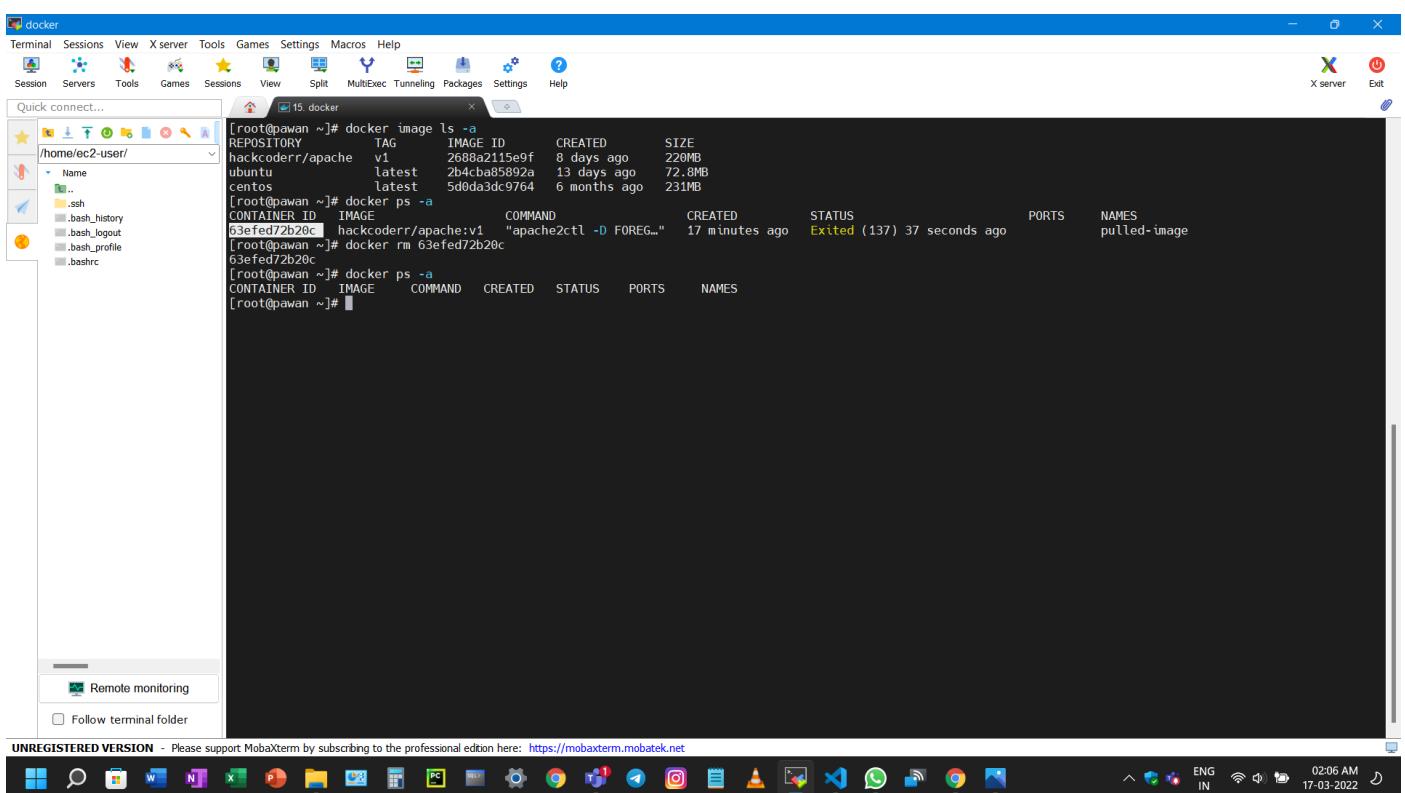
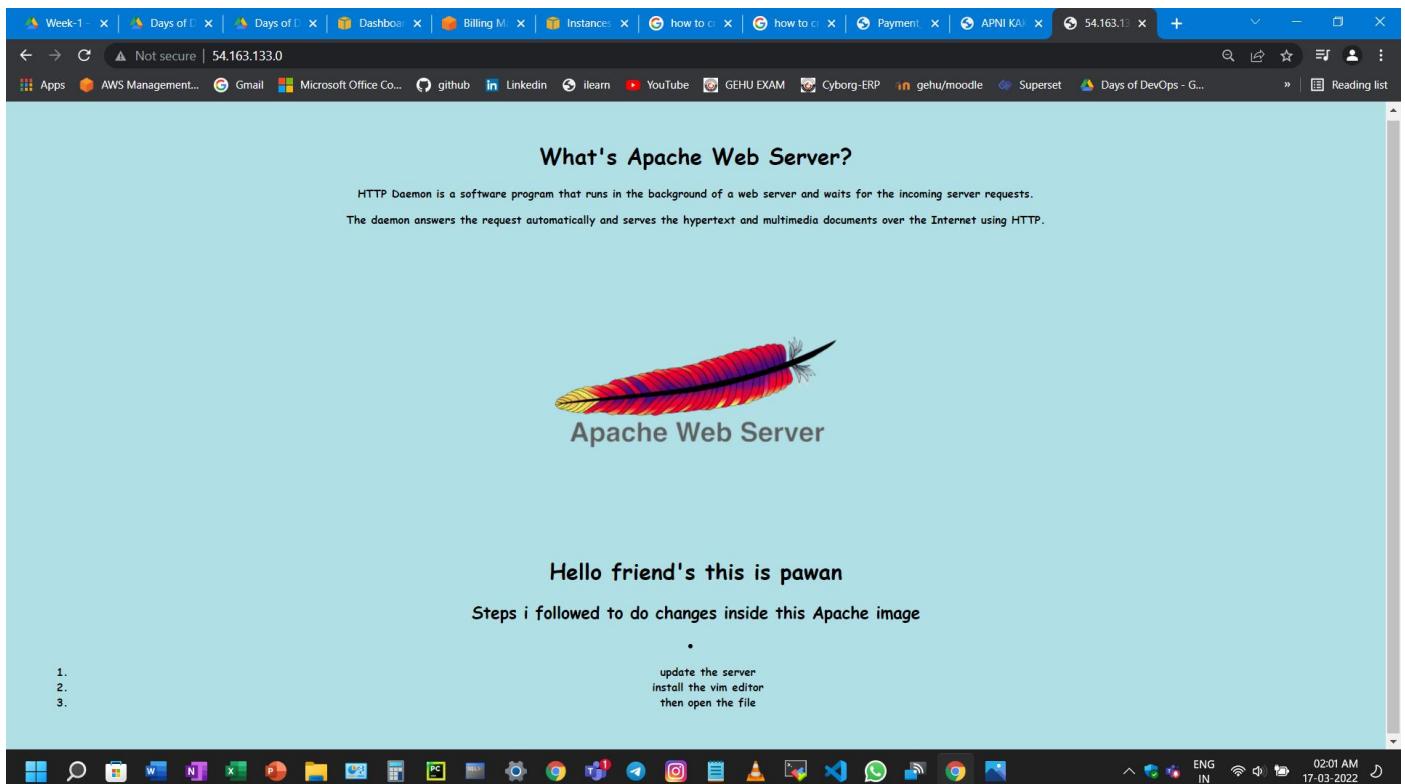
Got its terminal and that too now I m interacting with the image.

Now using the path: **cd /var/www/html/** I got to the location where that file is located(**index.html**)

Days of DevOps

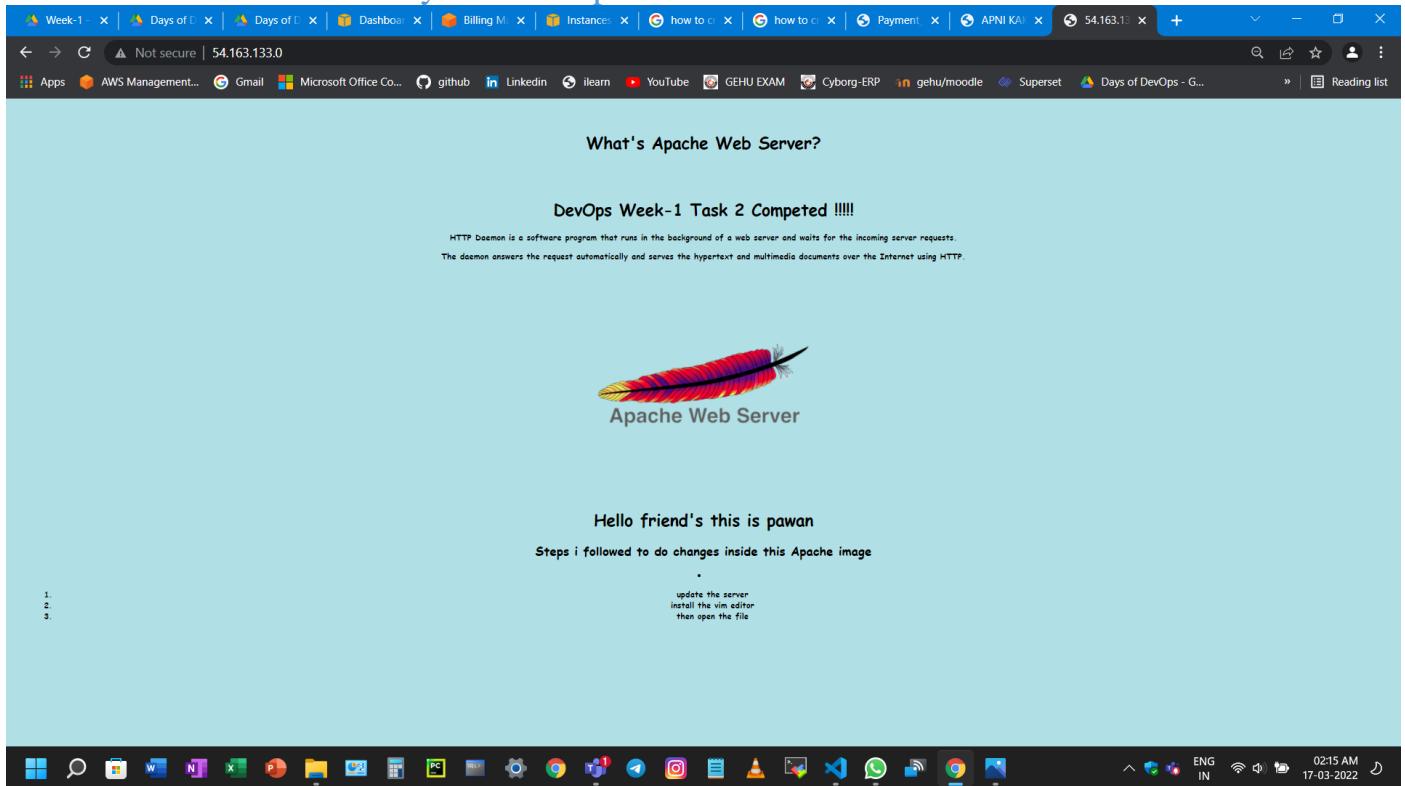
Task-2

Now after I got to the location of **index.html** file , then using **vim** command I opened the file made some changes and saved the file again using the command **:w**



Days of DevOps

Task-2



After making some changes to the file , again copied the public IP of the instance and pasted it on the chrome .

A screenshot of the AWS Management Console, specifically the EC2 Instances page. The URL in the address bar is "us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:instanceState=running". The main content shows a table of instances, with one row highlighted for an instance named "Docker" with the ID "i-029a78c2634c46697". The instance is listed as "Running". The details panel for this instance is expanded, showing configuration such as "Launch time: Wed Mar 16 2022 19:24:08 GMT+0530 (India Standard Time) (about 7 hours)", "AMI location: amazon/amzn2-ami-kernel-5.10-hvm-2.0.20220316.0-x86_64-gp2", and "Lifecycle: normal". The browser toolbar at the bottom shows various icons for Microsoft Office, Google services, and other tools.

Instance was in running state ,

Important: One thing that we need to keep in mind that if we stopped the instance for some reason and then start it again its public IP gets changed so we have to keep a track onto that both for deploying the web page and that too if we are running all these commands through CLI on third party applications like mobaxterm or putty.