Docker- Petshop-Clinic
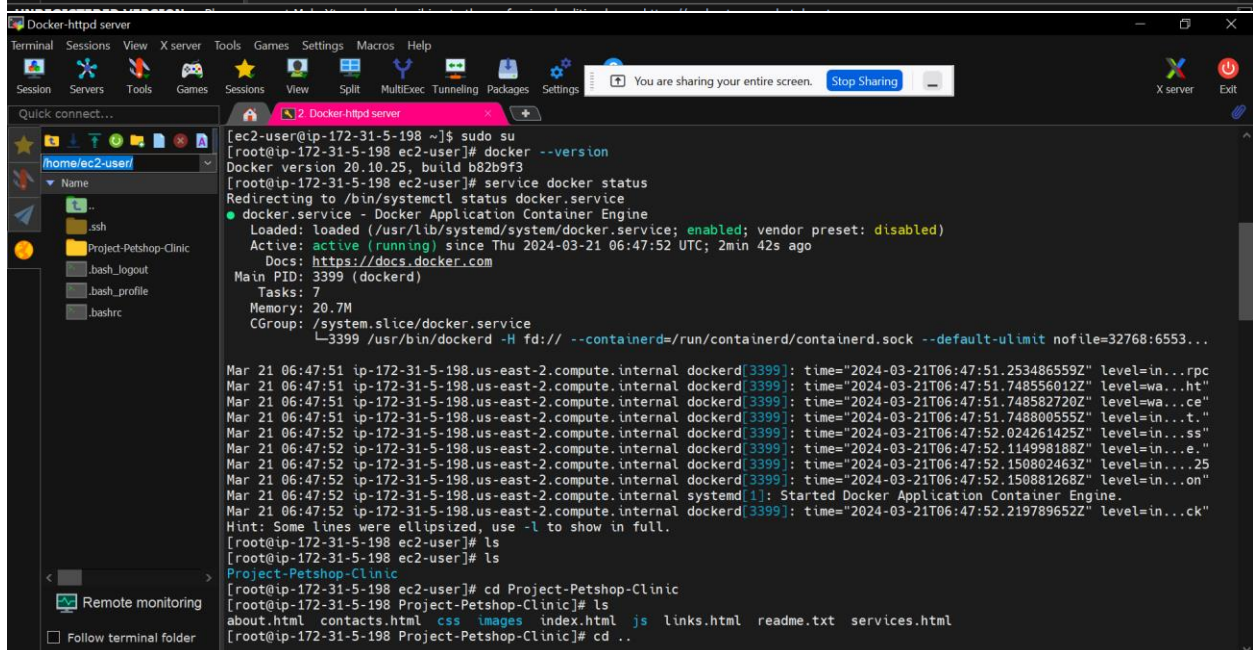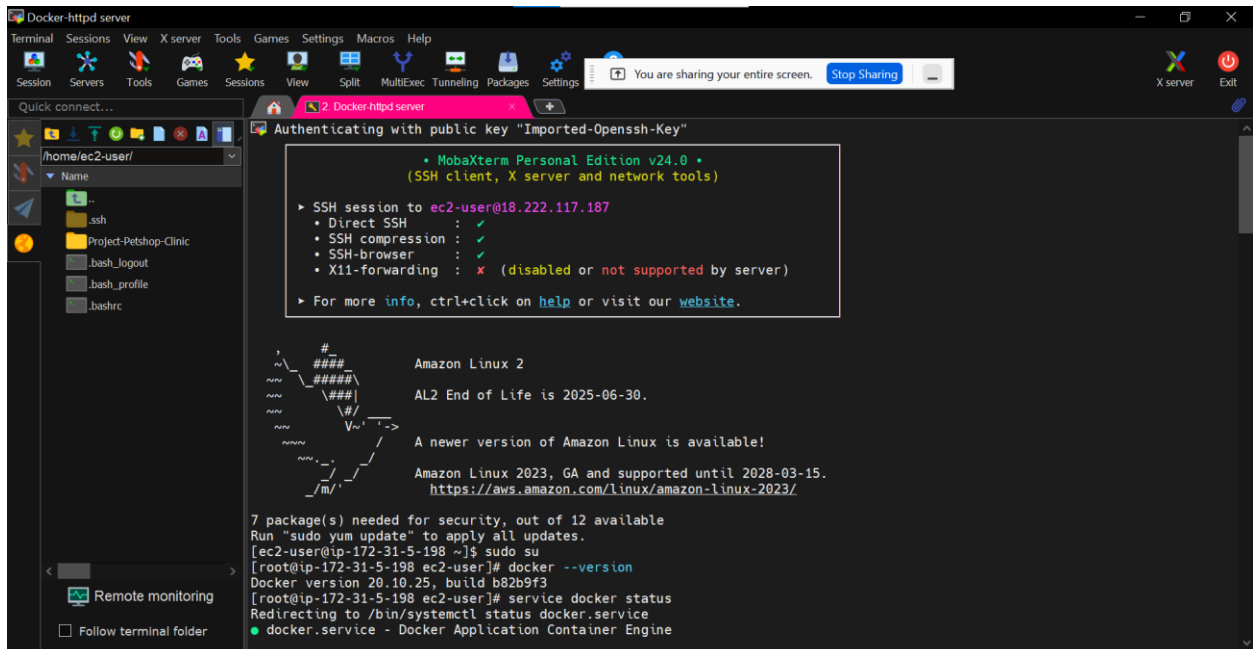
Prequisites:

- yum install docker -y
- service docker start
- systemctl enable docker
- sevice docker status
- Download free html template from google , It is present in local download folder, we have to move this template from local downloads to amazon linux server.
- Website link : https://www.free-css.com/template-categories/animals-or-pets

- write Dockerfile
- vi Dockerfile
- Dockerfile:
- FROM httpd:latest
- MAINTAINER "Shrikanth C R"
- COPY ./Project-Petshop-Clinic/ /usr/local/apache2/htdocs/

- docker pull httpd
- docker build -t customized-image-name .
- command: docker build -t httpd

- docker tag source name destination name
- command: docker tag httpd shrikanthcr/httpd

- docker run -d -p 82:80 customized-image-name
- command: docker run -d –name httpd_container -p 82:80 httpd

- docker login
- username: shrikanthcr
- password: generate token in docker hub

- docker push customized-image-name
- command: docker push shrikanthcr/httpd

Docker-httpd server

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings X server Exit

Quick connect...

2. Docker-httpd server

/home/ec2-user/

Name
..
.ssh
Project-Petshop-Clinic
.bash_logout
.bash_profile
.bashrc

```
Authenticating with public key "Imported-Openssh-Key"

            • MobaXterm Personal Edition v24.0 •
            (SSH client, X server and network tools)

  ➤ SSH session to ec2-user@18.222.117.187
    • Direct SSH        :  ✔
    • SSH compression :  ✔
    • SSH-browser      :  ✔
    • X11-forwarding   :  ✘  (disabled or not supported by server)

  ➤ For more info, ctrl+click on help or visit our website.
```

```
 ,        #_
 ~\_     ####_          Amazon Linux 2
 ~~   \_#####\
 ~~      \###|          AL2 End of Life is 2025-06-30.
 ~~       \#/ ___
  ~~      V~' '->
   ~~~         /        A newer version of Amazon Linux is available!
     ~~._.   _/
        _/ _/           Amazon Linux 2023, GA and supported until 2028-03-15.
      _/m/'              https://aws.amazon.com/linux/amazon-linux-2023/
```

```
7 package(s) needed for security, out of 12 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-5-198 ~]$ sudo su
[root@ip-172-31-5-198 ec2-user]# docker --version
Docker version 20.10.25, build b82b9f3
[root@ip-172-31-5-198 ec2-user]# service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
```

Remote monitoring

☐ Follow terminal folder

Docker-httpd server

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings X server Exit

Quick connect...

2. Docker-httpd server

/home/ec2-user/

Name
..
.ssh
Project-Petshop-Clinic
.bash_logout
.bash_profile
.bashrc

```
[ec2-user@ip-172-31-5-198 ~]$ sudo su
[root@ip-172-31-5-198 ec2-user]# docker --version
Docker version 20.10.25, build b82b9f3
[root@ip-172-31-5-198 ec2-user]# service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2024-03-21 06:47:52 UTC; 2min 42s ago
     Docs: https://docs.docker.com
 Main PID: 3399 (dockerd)
    Tasks: 7
   Memory: 20.7M
   CGroup: /system.slice/docker.service
           └─3399 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nofile=32768:6553...

Mar 21 06:47:51 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:51.253486559Z" level=in...rpc
Mar 21 06:47:51 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:51.748556012Z" level=wa...ht"
Mar 21 06:47:51 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:51.748582720Z" level=wa...ce"
Mar 21 06:47:51 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:51.748800555Z" level=in...t."
Mar 21 06:47:52 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:52.024261425Z" level=in...ss"
Mar 21 06:47:52 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:52.114998188Z" level=in...e."
Mar 21 06:47:52 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:52.150802463Z" level=in....25
Mar 21 06:47:52 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:52.150881268Z" level=in...on"
Mar 21 06:47:52 ip-172-31-5-198.us-east-2.compute.internal systemd[1]: Started Docker Application Container Engine.
Mar 21 06:47:52 ip-172-31-5-198.us-east-2.compute.internal dockerd[3399]: time="2024-03-21T06:47:52.219789652Z" level=in...ck"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-5-198 ec2-user]# ls
[root@ip-172-31-5-198 ec2-user]# ls
Project-Petshop-Clinic
[root@ip-172-31-5-198 ec2-user]# cd Project-Petshop-Clinic
[root@ip-172-31-5-198 Project-Petshop-Clinic]# ls
about.html  contacts.html  css  images  index.html  js  links.html  readme.txt  services.html
[root@ip-172-31-5-198 Project-Petshop-Clinic]# cd ..
```

Remote monitoring

☐ Follow terminal folder

```
[root@ip-172-31-5-198 Project-Petshop-Clinic]# ls
about.html  contacts.html  css  images  index.html  js  links.html  readme.txt  services.html
[root@ip-172-31-5-198 Project-Petshop-Clinic]# cd ..
[root@ip-172-31-5-198 ec2-user]# docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
8a1e25ce7c4f: Pull complete
8b0a7c8478f8: Pull complete
4f4fb700ef54: Pull complete
7f8fb0a042e0: Pull complete
91e4b2f2b52a: Pull complete
c78cdbf9617d: Pull complete
Digest: sha256:374766f5bc5977c9b72fdb8ae3ed05b7fc89060e7edc88fcbf142d6988e58eeb
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
[root@ip-172-31-5-198 ec2-user]# docker images
REPOSITORY   TAG      IMAGE ID       CREATED       SIZE
httpd        latest   ac45b24b92cc   2 months ago  167MB
[root@ip-172-31-5-198 ec2-user]# docker ps -a
CONTAINER ID   IMAGE    COMMAND    CREATED   STATUS   PORTS    NAMES
[root@ip-172-31-5-198 ec2-user]# docker run -d --name httpd_container -p 81:80 httpd
58c99dc1af7d924b79d12d40e8854e52d0a6b44b1c882100a7f4e9f09f2c0d7e
[root@ip-172-31-5-198 ec2-user]# docker ps -a
CONTAINER ID   IMAGE    COMMAND             CREATED        STATUS         PORTS                                        NAMES
58c99dc1af7d   httpd    "httpd-foreground"  4 seconds ago  Up 4 seconds   0.0.0.0:81->80/tcp, :::81->80/tcp           httpd_contain
er
[root@ip-172-31-5-198 ec2-user]# ls
Project-Petshop-Clinic
[root@ip-172-31-5-198 ec2-user]# vi Dockerfile
[root@ip-172-31-5-198 ec2-user]# docker ps -a
CONTAINER ID   IMAGE    COMMAND             CREATED        STATUS         PORTS                                        NAMES
58c99dc1af7d   httpd    "httpd-foreground"  2 minutes ago  Up 2 minutes   0.0.0.0:81->80/tcp, :::81->80/tcp           httpd_contain
er
```

```
Project-Petshop-Clinic
[root@ip-172-31-5-198 ec2-user]# vi Dockerfile
[root@ip-172-31-5-198 ec2-user]# docker ps -a
CONTAINER ID   IMAGE    COMMAND             CREATED        STATUS         PORTS                                        NAMES
58c99dc1af7d   httpd    "httpd-foreground"  2 minutes ago  Up 2 minutes   0.0.0.0:81->80/tcp, :::81->80/tcp           httpd_contain
er
[root@ip-172-31-5-198 ec2-user]# docker exec -it 58c99dc1af7d /bin/bash
root@58c99dc1af7d:/usr/local/apache2# ls
bin  build  cgi-bin  conf  error  htdocs  icons  include  logs  modules
root@58c99dc1af7d:/usr/local/apache2# cd htdocs
root@58c99dc1af7d:/usr/local/apache2/htdocs# ls
index.html
root@58c99dc1af7d:/usr/local/apache2/htdocs# pwd
/usr/local/apache2/htdocs
root@58c99dc1af7d:/usr/local/apache2/htdocs# exit
exit
[root@ip-172-31-5-198 ec2-user]# vi Dockerfile
[root@ip-172-31-5-198 ec2-user]# cat Dockerfile
FROM httpd:latest
MAINTAINER "Shrikanth C R"
COPY ./Project-Petshop-Clinic/ /usr/local/apache2/htdocs/
[root@ip-172-31-5-198 ec2-user]# docker build -t pershop-clinic .
Sending build context to Docker daemon  1.469MB
Step 1/3 : FROM httpd:latest
 ---> ac45b24b92cc
Step 2/3 : MAINTAINER "Shrikanth C R"
 ---> Running in 65b82640b6a5
Removing intermediate container 65b82640b6a5
 ---> f9ed6c8e62ce
Step 3/3 : COPY ./Project-Petshop-Clinic/ /usr/local/apache2/htdocs/
 ---> 6cfabd7891f0
Successfully built 6cfabd7891f0
Successfully tagged pershop-clinic:latest
```

```
---> ac45b24b92cc
Step 2/3 : MAINTAINER "Shrikanth C R"
---> Running in 65b82640b6a5
Removing intermediate container 65b82640b6a5
---> f9ed6c8e62ce
Step 3/3 : COPY ./Project-Petshop-Clinic/ /usr/local/apache2/htdocs/
---> 6cfabd7891f0
Successfully built 6cfabd7891f0
Successfully tagged pershop-clinic:latest
[root@ip-172-5-198 ec2-user]# docker images
REPOSITORY        TAG       IMAGE ID      CREATED        SIZE
pershop-clinic    latest    6cfabd7891f0  7 seconds ago  169MB
httpd             latest    ac45b24b92cc  2 months ago   167MB
[root@ip-172-5-198 ec2-user]# docker run -d -p 82:80 pershop-clinic
68f61bc528328597c6bee6e5c8c38d55e3ed3fcd7bc8e148be355a3dde050a7e
[root@ip-172-5-198 ec2-user]# docker ps -a
CONTAINER ID   IMAGE           COMMAND             CREATED        STATUS         PORTS                                      NAMES
68f61bc52832   pershop-clinic  "httpd-foreground"  6 seconds ago  Up 6 seconds   0.0.0.0:82->80/tcp, :::82->80/tcp          gifted
_bell
58c99dc1af7d   httpd           "httpd-foreground"  6 minutes ago  Up 6 minutes   0.0.0.0:81->80/tcp, :::81->80/tcp          httpd_
container
[root@ip-172-5-198 ec2-user]# docker images
REPOSITORY        TAG       IMAGE ID      CREATED        SIZE
pershop-clinic    latest    6cfabd7891f0  2 minutes ago  169MB
httpd             latest    ac45b24b92cc  2 months ago   167MB
[root@ip-172-5-198 ec2-user]# docker tag shrikanthcr/pershop-clinic
"docker tag" requires exactly 2 arguments.
See 'docker tag --help'.

Usage:  docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
[root@ip-172-5-198 ec2-user]# docker tag pershop-clinic  shrikanthcr/pershop-clinic
```
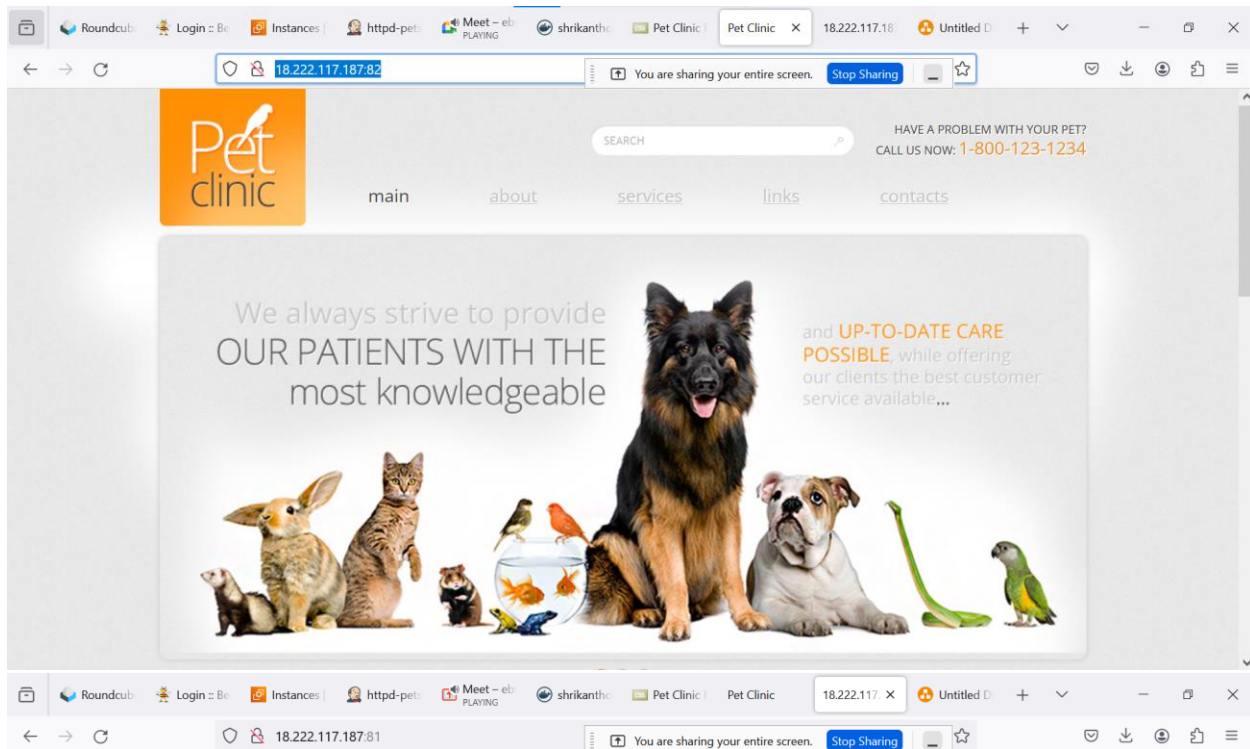
```
Usage:  docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
[root@ip-172-5-198 ec2-user]# docker tag pershop-clinic  shrikanthcr/pershop-clinic
[root@ip-172-5-198 ec2-user]# docker images
REPOSITORY                  TAG       IMAGE ID      CREATED        SIZE
pershop-clinic              latest    6cfabd7891f0  4 minutes ago  169MB
shrikanthcr/pershop-clinic  latest    6cfabd7891f0  4 minutes ago  169MB
httpd                       latest    ac45b24b92cc  2 months ago   167MB
[root@ip-172-5-198 ec2-user]# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.doc
ker.com to create one.
Username: shrikanthcr
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@ip-172-5-198 ec2-user]# docker push shrikanthcr/pershop-clinic
Using default tag: latest
The push refers to repository [docker.io/shrikanthcr/pershop-clinic]
d102d35e4855: Pushed
d91409980a4e: Mounted from library/httpd
2ef15bc08e25: Mounted from library/httpd
1f9ac7ca16f1: Mounted from library/httpd
5f70bf18a086: Mounted from library/httpd
3ee8143dd880: Mounted from library/httpd
a483da8ab3e9: Mounted from library/httpd
latest: digest: sha256:9e1e5aa1a505bc542cb9edf459a14b6b6d0e83dcc359791c162745f0d4e240f3 size: 1783
[root@ip-172-5-198 ec2-user]# vi Dockerfile
[root@ip-172-5-198 ec2-user]#
```

It works!

Dockerfile:

FROM httpd:latest

MAINTAINER "Shrikanth C R"

COPY ./Project-Petshop-Clinic/ /usr/local/apache2/htdocs/