

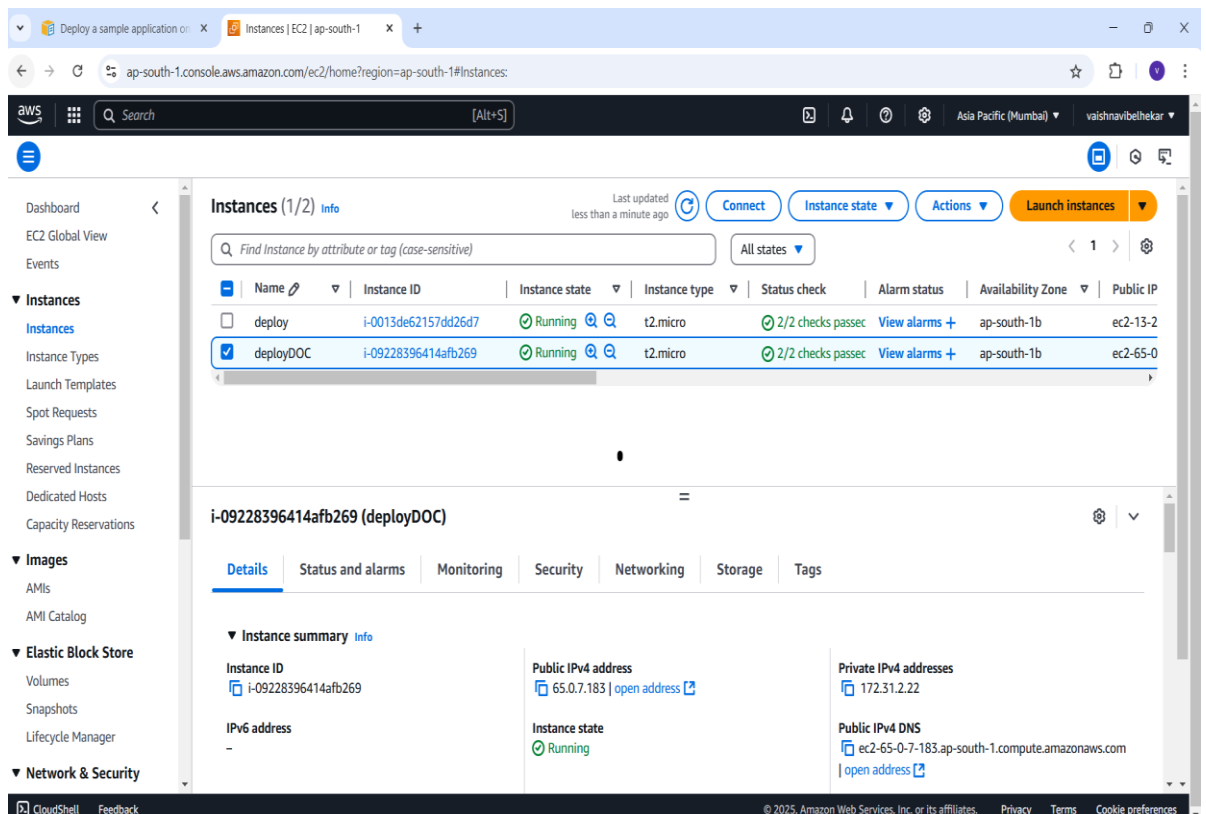
Dockerfile

What is Docker?

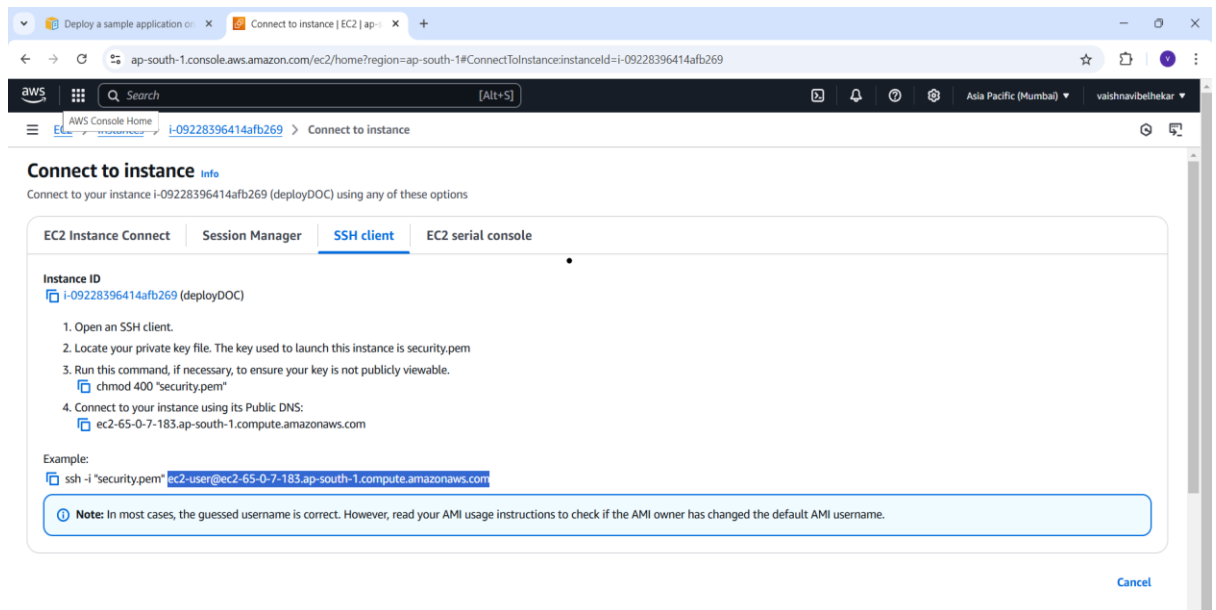
Docker is a set of [platform as a service](#) (PaaS) products that use [OS-level virtualization](#) to deliver software in packages called [containers](#). The service has both free and premium tiers. The software that hosts the containers is called **Docker Engine**.

Steps:-

- Launch linux instance



- Connect with the instance



- For connecting the instance copy the public DNS of instance
- Open the putty application and paste it in Host Name



- After connecting apply the commands
 - sudo su
 - yum update-y

- yum install docker

```
root@ip-172-31-2-22:/home/ec2-user
Using username "ec2-user".
Authenticating with public key "security"

#_
~\#### Amazon Linux 2023
~~\#####\
~~\###|
~~\#/ https://aws.amazon.com/linux/amazon-linux-2023
~~V~' '->
~~~~
~~-. - /
~/m/' - /

[ec2-user@ip-172-31-2-22 ~]$ sudo su
[root@ip-172-31-2-22 ec2-user]# yum update -y
Last metadata expiration check: 0:05:43 ago on Tue Jan 21 12:45:31 2025.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-2-22 ec2-user]# yum install docker
Last metadata expiration check: 0:06:02 ago on Tue Jan 21 12:45:31 2025.
Dependencies resolved.
```

Package	Arch	Version	Repository	Size
Installing:				
docker	x86_64	25.0.6-1.amzn2023.0.2	amazonlinux	44 M
Installing dependencies:				
containerd	x86_64	1.7.23-1.amzn2023.0.1	amazonlinux	36 M
iptables-libse	x86_64	1.8.8-3.amzn2023.0.2	amazonlinux	401 k
iptables-nft	x86_64	1.8.8-3.amzn2023.0.2	amazonlinux	183 k
libcgroup	x86_64	3.0-1.amzn2023.0.1	amazonlinux	75 k
libnetfilter_conntrack	x86_64	1.0.8-2.amzn2023.0.2	amazonlinux	58 k
libnftnl	x86_64	1.0.1-19.amzn2023.0.2	amazonlinux	30 k
libnftnl	x86_64	1.2.2-2.amzn2023.0.2	amazonlinux	84 k
pigz	x86_64	2.5-1.amzn2023.0.3	amazonlinux	83 k
runc	x86_64	1.1.14-1.amzn2023.0.1	amazonlinux	3.2 M

```
Transaction Summary
=====
Install 10 Packages

Total download size: 84 M
Installed size: 317 M
Is this ok [y/N]: y
```

- service docker status
- service docker start
- docker pull ubuntu
- vi index.html

welcome to teknowell

- cat index.html
- docker images
- vi Dockerfile

FROM ubuntu
RUN apt update -y
RUN apt-get install apache2 -y
COPY index.html /var/www/html
EXPOSE 80
CMD ["apache2ctl", "-D", "FOREGROUND"]

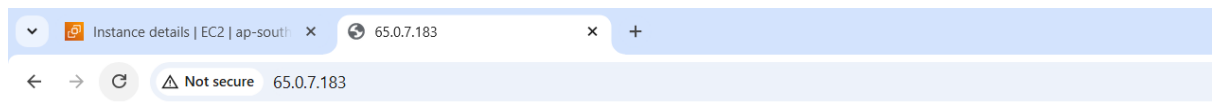
- cat Dockerfile
- docker build -t img:v1 .
- docker images

```
root@ip-172-31-2-22:/home/ec2-user

[root@ip-172-31-2-22 ec2-user]# docker build -t img1:v1 .
[+] Building 0.5s (6/8)
=> [internal] load build definition from Dockerfile                                docker:default 0.0s
=> => transferring dockerfile: 238B                                              0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest                  0.0s
=> [internal] load .dockerignore                                                 0.0s
=> => transferring context: 2B                                                  0.0s
=> [1/4] FROM docker.io/library/ubuntu:latest                                    0.0s
=> [internal] load build context                                                 0.0s
=> => transferring context: 127B                                                0.0s
=> ERROR [2/4] RUN apt updater -y                                               0.3s
-----
> [2/4] RUN apt updater -y:
0.300
0.301 WARNING: apt does not have a stable CLI interface. Use with caution in scr
ipts.
0.302
0.302 E: Invalid operation updater
-----
Dockerfile:2
-----
1 | FROM ubuntu
2 | >>> RUN apt updater -y
3 | RUN apt-get install apache2 -y
4 | COPY index.html /var/www/html
-----
ERROR: failed to solve: process "/bin/sh -c apt updater -y" did not complete suc
cessfully: exit code: 100
[root@ip-172-31-2-22 ec2-user]# vi Dockerfile
[root@ip-172-31-2-22 ec2-user]# docker build -t img1:v1 .
[+] Building 23.6s (9/9) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 237B                                              0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest                  0.0s
=> [internal] load .dockerignore                                                 0.0s
=> => transferring context: 2B                                                  0.0s
=> CACHED [1/4] FROM docker.io/library/ubuntu:latest                            0.0s
=> [internal] load build context                                                 0.0s
=> => transferring context: 90B                                                0.0s
=> [2/4] RUN apt update -y                                                       0.0s
=> [3/4] RUN apt-get install apache2 -y                                         0.0s
=> [4/4] COPY index.html /var/www/html                                          0.0s
=> exporting to image                                                            0.0s
=> => exporting layers                                                            0.0s
=> => writing image sha256:979c3fbd287e1bc0bac057e14de76a3151d4dfc1ee0099b6a0724333d30664a2
=> => naming to docker.io/library/img1:v1                                       0.0s
[root@ip-172-31-2-22 ec2-user]#
```

- docker run -p 80:80 image id

output



wellcome to teknowell