Deploye Html file in Docker Container

What is Docker?

It is a software development tool and a virtualization technology that makes it easy to develop, deploy manage application by using container

What is Container?

It refers to a lightweight, standlone, executable package of a piece of software that contains all the libraries, configuration files, dependencies and other necessary parts to operate the application. Eg., Ubuntu +Python +Dependencies

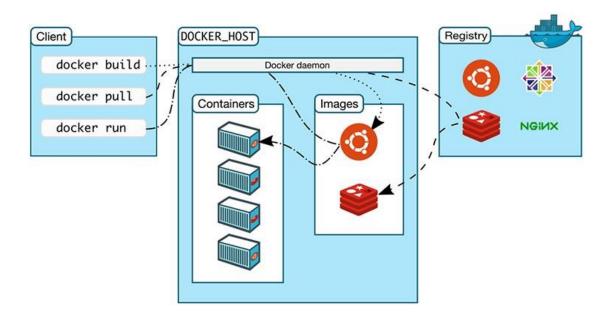
What is Docker Images?

It is static representation of the app or service and its configuration of the app or service and its configuration and dependencies. It is used to create Docker Containers. It is read-only immutable template that defines contains application binaries and dependencies. Docker Images are stored in the docker Registry.

What is Docker Container Lifecycle?

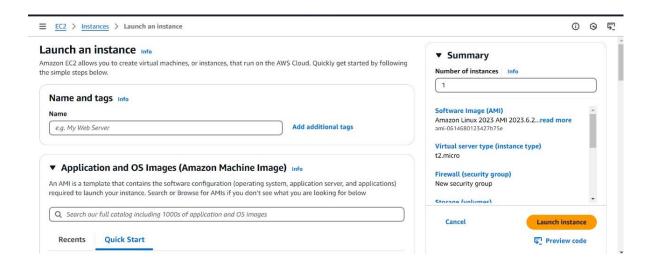
The Docker container lifecycle is the process of creating, running, stopping, and removing a Docker container:

- Created: The container is created from a Docker image
- Running: The container executes the commands in the image
- Paused: The container's current command is paused
- **Stopped**: The container's main process is gracefully shut down
- Killed or deleted: The container's main processes are abruptly shut down

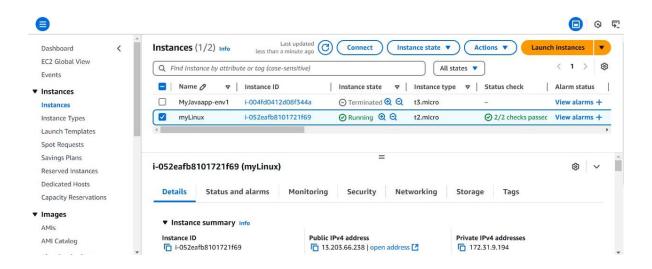


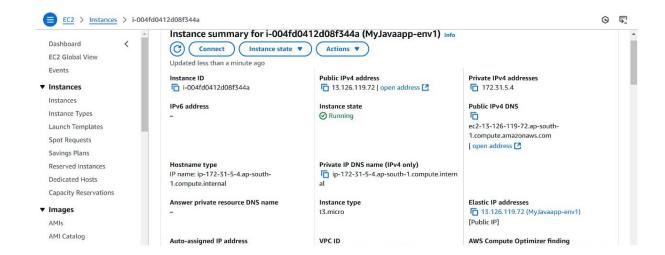
Step 1:

Launch Linux instance



After launch instance connect with putty





commands: sudo su yum update -y yum install docker

```
Using username "ec2-user".

Authoriticating with public key "LinuxKeyPair"

Amazon Linux 2023

Amazon Linux
```

service docker status--> to check status of docker press q to quit service docker start --> to start docker service docker status --> it will show active docker images [to list all docker images available in instance]

search 'docker hub' on google--> search ubuntu and copy the command and paste in putty--> command-- docker pull ubuntu

vi index.html [for creating index.html] <h1>Hello from docker</h1> to quit press ecs+ :wq cat index.html

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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 ["apachectl", "-D", "FOREGROUND"]

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FROM shouts

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FROM shouts in the state of the state o
```

cat Dockerfile
docker build -t img1:v1 .
docker images
docker run -p 80:80 imageid

```
Front@ip-172-31-9-194 col_user| # col_user
```