

School of Computer Science Engineering and Application

BCA TY SEM -VI

Subject Name: Container and Orchestration

Assignment No: 4

AIM: CREATE DOCKER LOCAL PRIVATE REGISTRY ON LOCALHOST AND PUSH ANY IMAGE ON THAT REGISTRY

Submitted By

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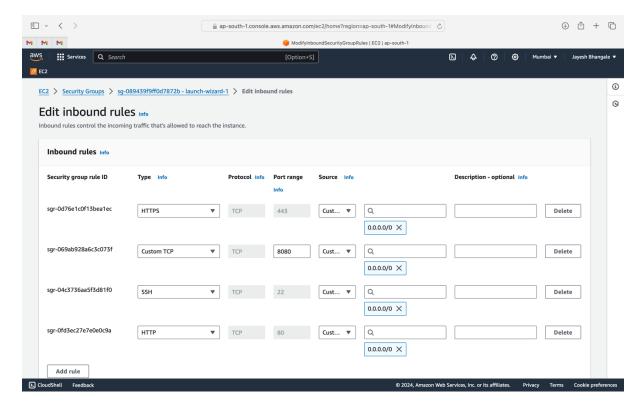
PRN: 20210801024

Date: 04 -03 - 2024

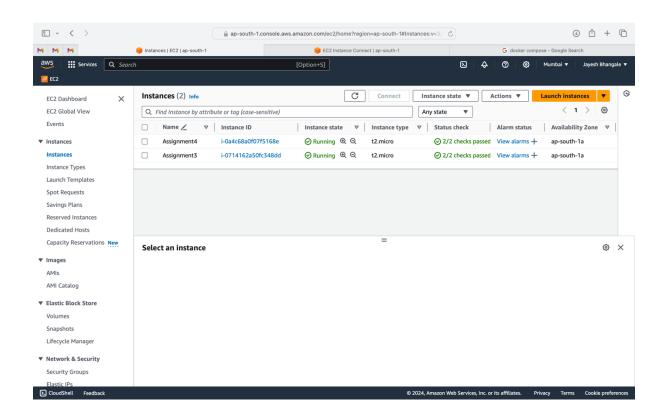
STEP-1: CREATE SECURITY GROUP

inbound rules-

- I. ssh
- II. http
- III. https
- IV. all traffic



STEP-2: CREATE & LAUNCH EC2 INSTANCE



STEP-3: INSTALL DOCKER ON EC2 MACHINE

Set Up Docker Repositories , Add GPG Key & Install Docker Engine : COMMANDS :

1 Update System:

sudo apt update -y

2 Set Up Repository:

sudo apt install \

apt-transport-https \

ca-certificates \

```
curl \
gnupg-agent \
software-properties-common
3 Add Dockers Official GPG Key
```

curl -fsSl https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add - sudo add-apt-repository \

"deb [arch=amd64] https://download.docker.com/linux/ubuntu \

\$(lsb_release -cs) \

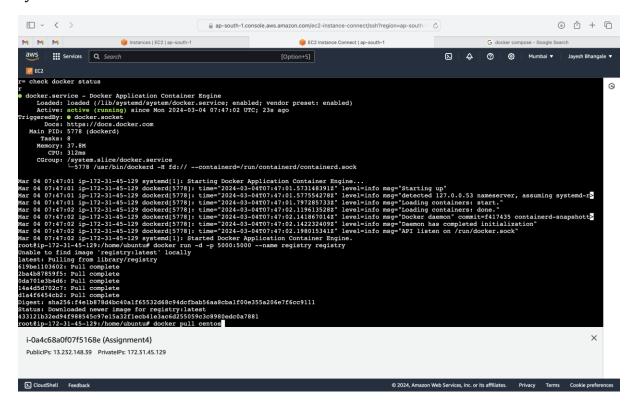
stable "

4 Install Docker Engine

sudo apt install docker-ce docker-ce-cli containerd.io -y

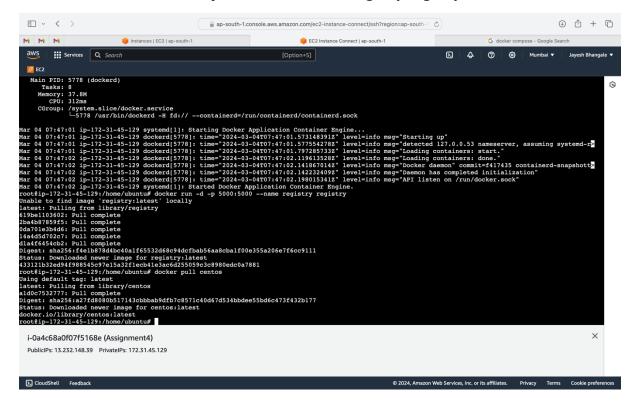
5 Check Containers Status

systemctl status docker



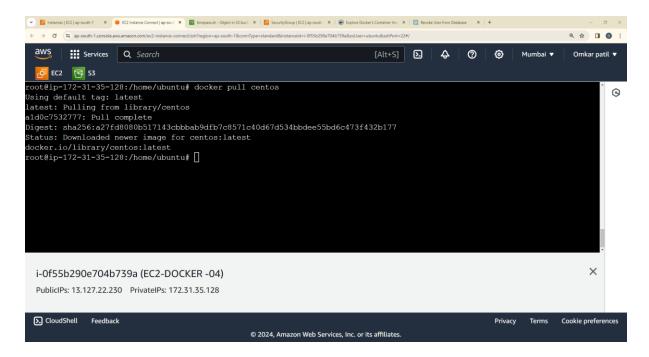
STEP -4: DOCKER RUN COMMAND TO DOWNLOAD DOCKER'S LOCAL PRIVATE REGISTRY

COMMAND: docker run -d -p 5000:5000 -name registry registry:2



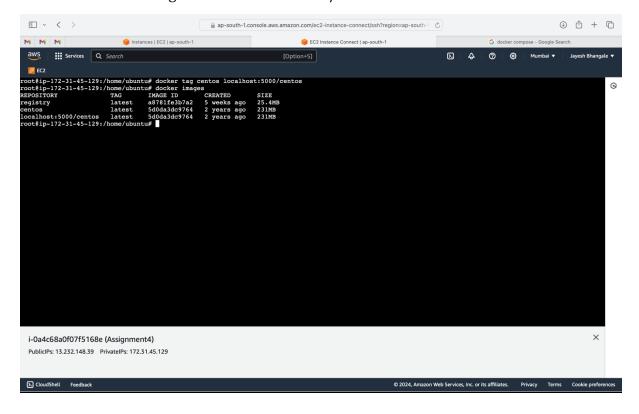
STEP -5: PULL THE CENTOS IMAGE FROM DOCKER HUB

COMMAND: docker pull centos



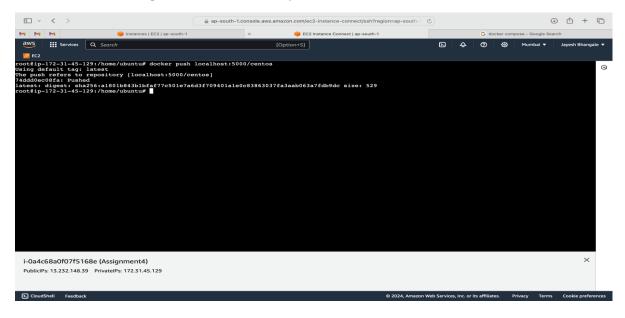
<u>STEP-6: TAG THE CENTOS IMAGE WITH YOUR DOCKER'S LOCAL PRIVATE REGISTRY ADDRESS</u>

COMMAND: docker tag centos localhost:5000/centos



STEP -7: PUSH THE TAGGED IMAGE TO YOUR DOCKER'S LOCAL PRIVATE REGISTRY

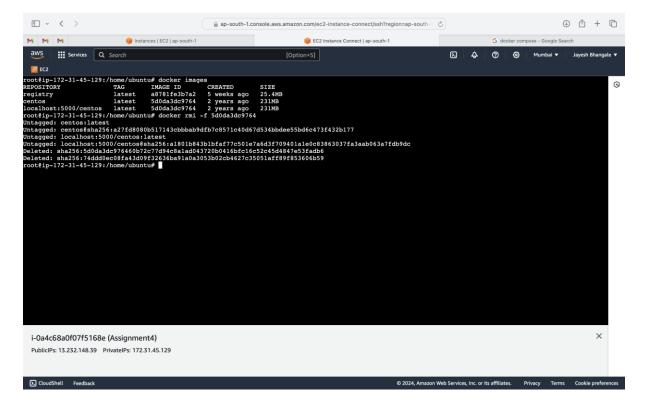
COMMAND: docker push localhost:5000/centos



STEP-8: DELETE THE DOWNLOADED CENTOS IMAGE FROM DOCKER HUB

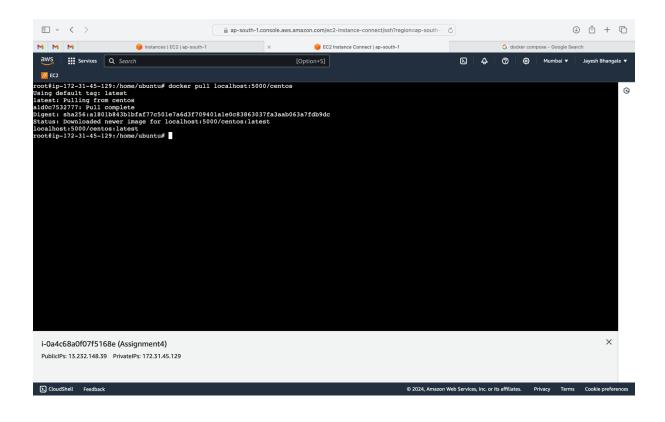
COMMAND: docker rmi -f image_id

COMMAND: docker rmi -f 5d0da3dc9764



<u>STEP -9 : PULL THE CENTOS IMAGE FROM DOCKERS LOCAL PRIVATE REGISTRY</u>

COMMAND: docker pull localhost:5000/centos



Sign

Subject In charge

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