School of Computer Science Engineering and Application

BCA TY SEM VI

Subject Name: Container and Orchestration Practical

Assignment No 3

Aim: Launch Jenkins on web-browser.

Submitted By

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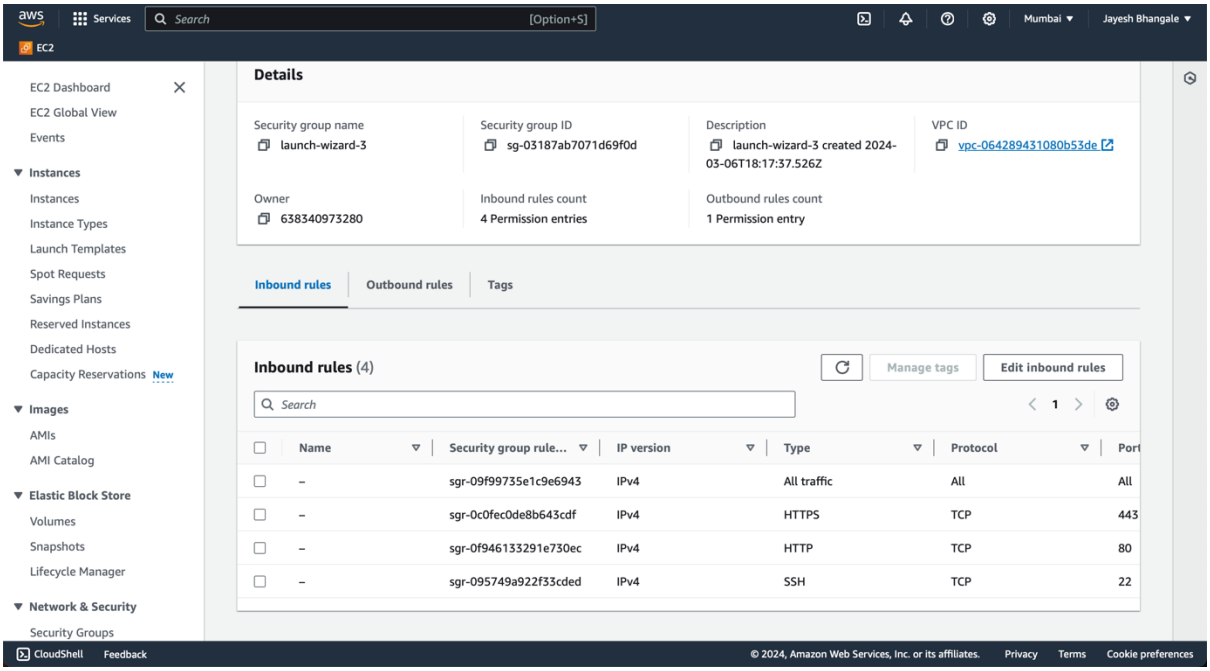
Date: 25 feb 2024

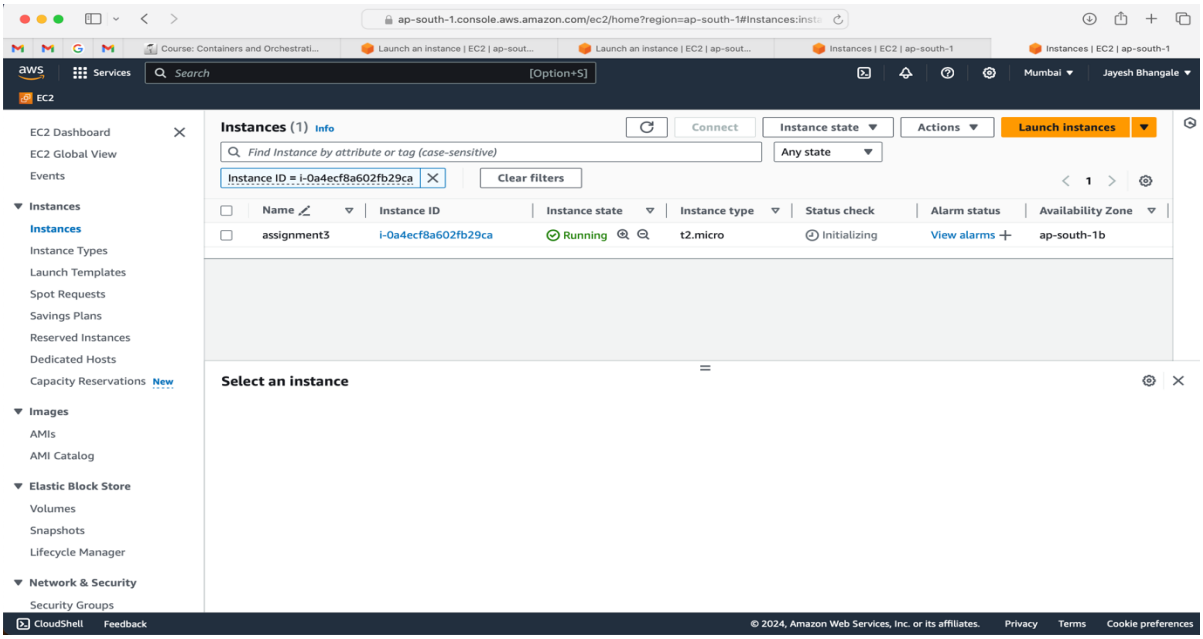
STEP -1 : CREATE SECURITY GROUP

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) \

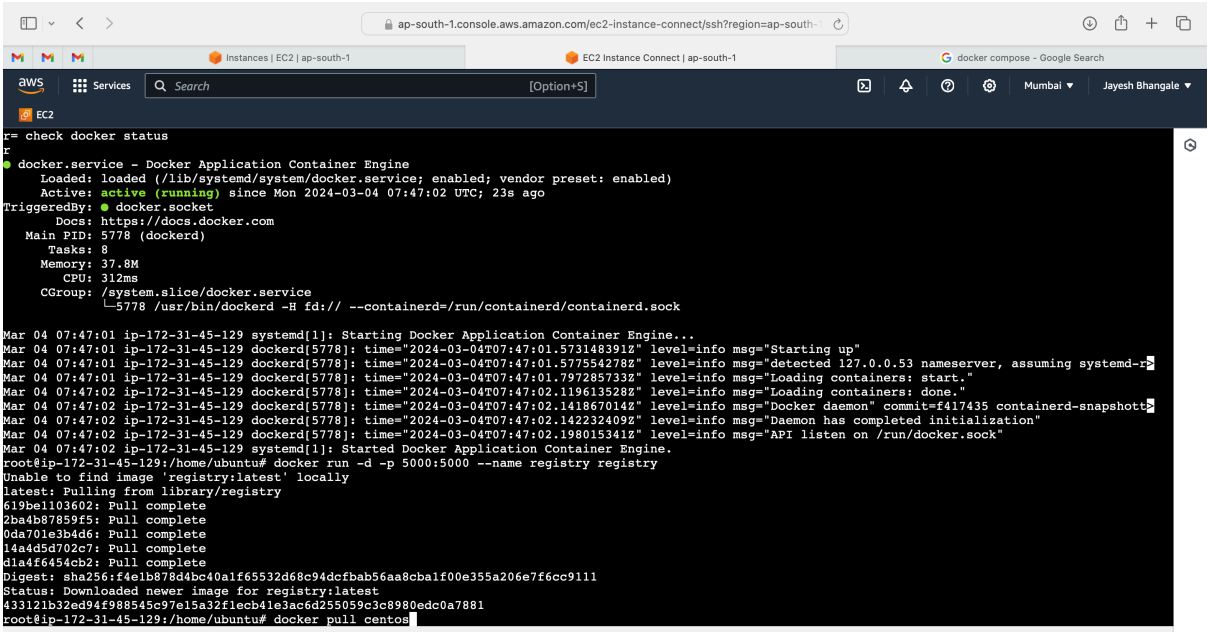
stable “

4 Install Docker Engine

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

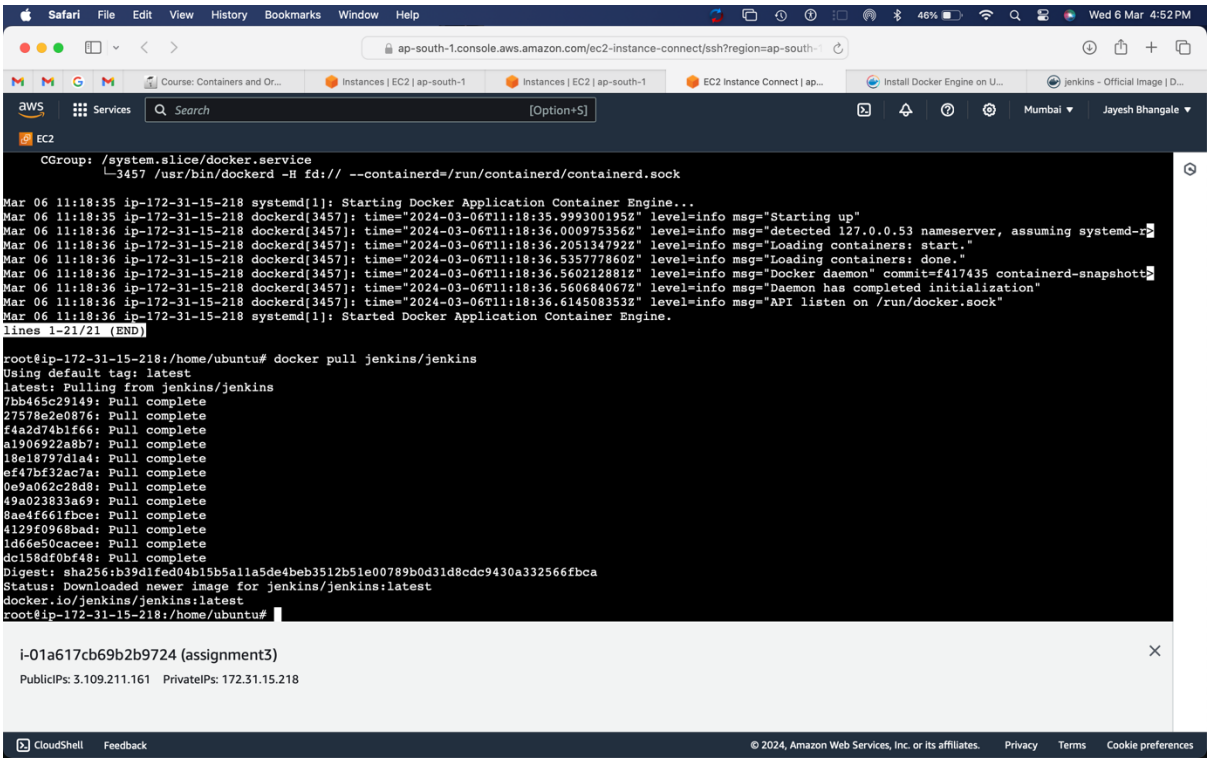
5 Check Containers Status

systemctl status docker



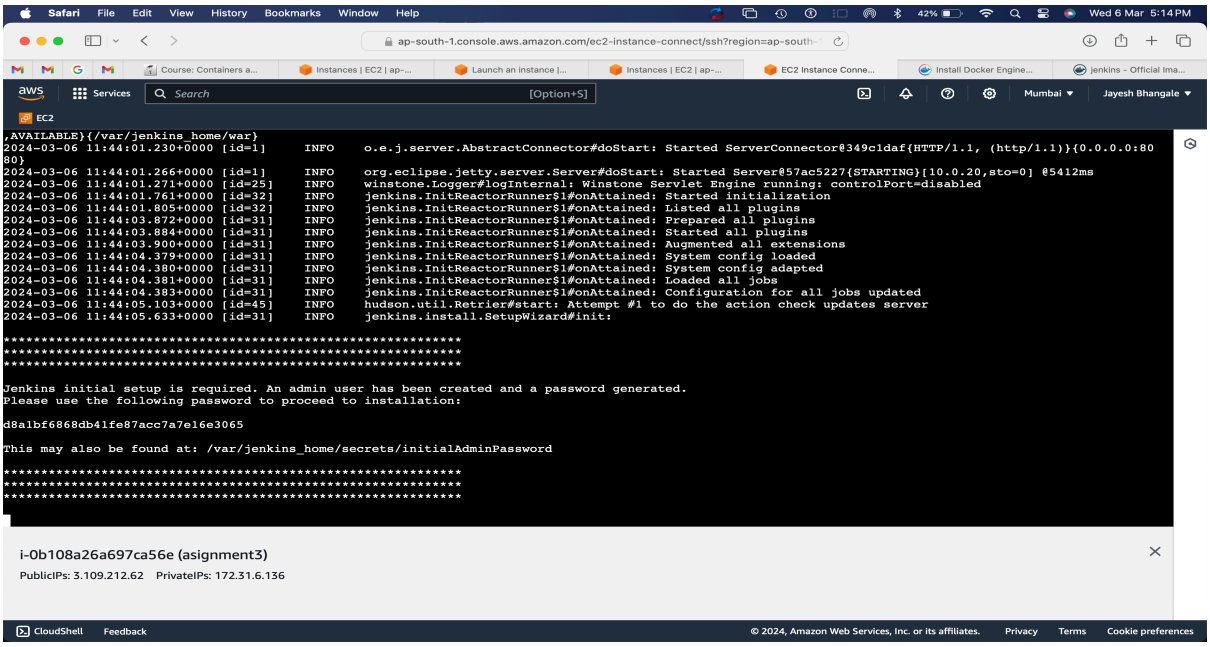
STEP -4: PULL JENKINS

COMMAND: docker pull jenkins/Jenkins



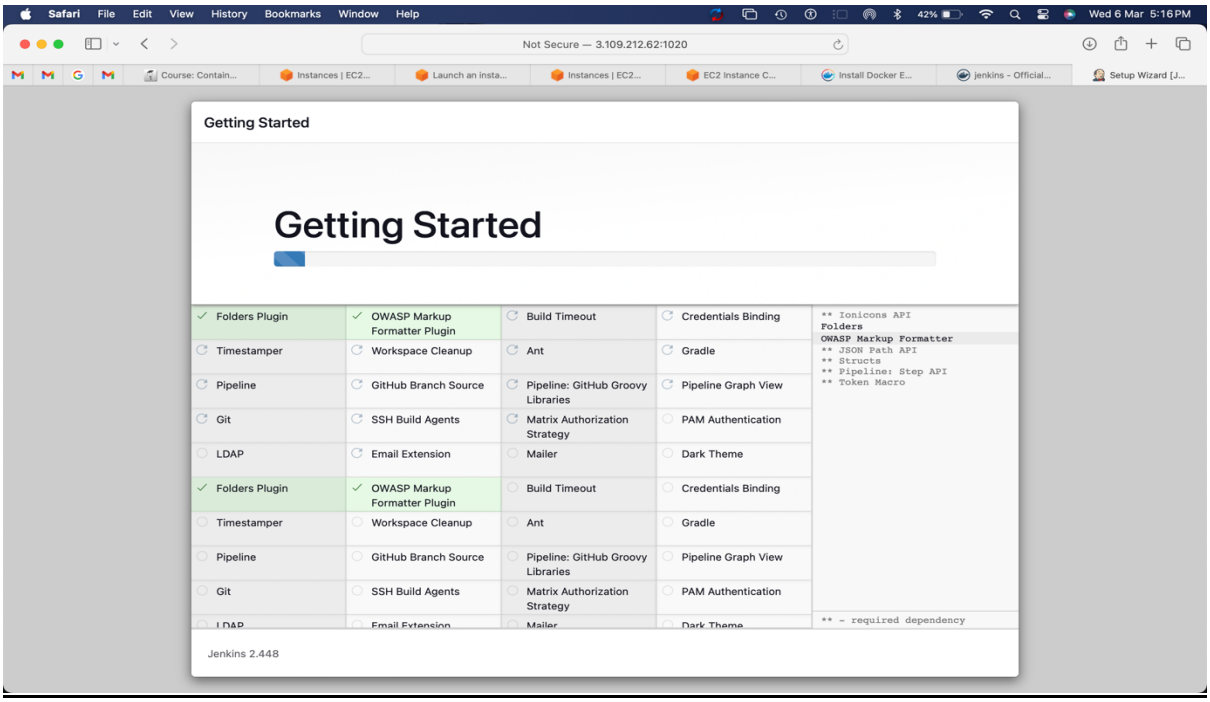
STEP-5: DOCKER RUN JENKINS IMAGE ALONG WITH DATA PORT AND CONTROL PORT

COMMAND: docker run –p 1210:8080 –p 50000:50000 jenkins/Jenkins



STEP-6: EXPOSE JENKINS IMAGE USING DATA PORT

Copy public ip of ec2 and paste along with data port on new tab of browser



End of the practical (Last page)

Sign

Subject In charge: Dr. Swapnil Waghmare