# **CI/CD** Deployment for Springboot Application.

Project 1

# **DESCRIPTION**

As a Full Stack Developer, you have to build a CI/CD pipeline to demonstrate continuous deployment and host the application on AWS EC2 instance.

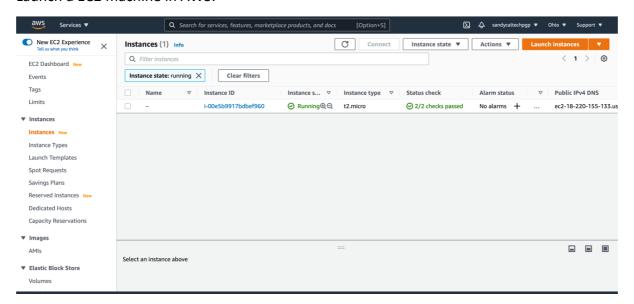
# **Background of the problem statement:**

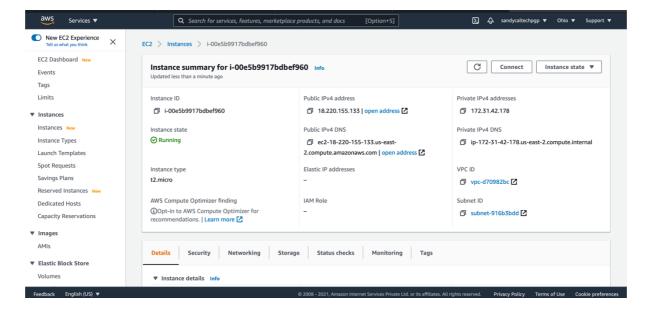
As the project is in the final stage, management has asked you to automate the integration and deployment of the web application. You are required to set up an environment where the application will be hosted and accessed by users. The source code is supposed to be fetched from a GitHub repository.

# You must use the following:

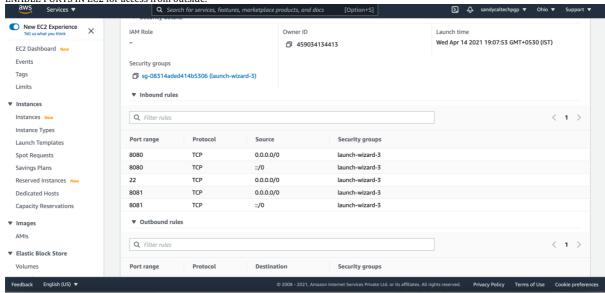
- Eclipse
- GitHub
- Jenkins
- AWS EC2/ Virtual machine

### Launch a EC2 machine in AWS:





ENABLE PORTS IN EC2 for access from outside.



# SSH into the EC2 machine

INSTALL JDK: \$ sudo yum install java-1.8.0

#### INSTALL JENKINS:

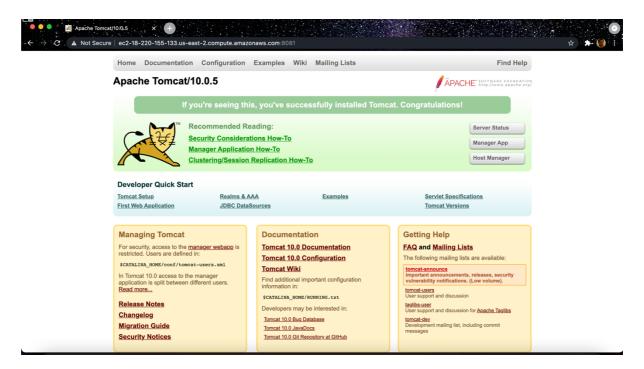
 $\underline{https://www.jenkins.io/doc/book/installing/linux/\#red-hat-centos}$ 

#### DOWNLOAD TOMCAT:

 $\$\ wget\ \underline{https://mirrors.estointernet.in/apache/tomcat/tomcat-10/v10.0.5/bin/apache-tomcat-10.0.5.tar.gz$ 

#### UNZIP AND START TOMCAT:

/opt/tomcat/bin \$\$\$./startup.sh

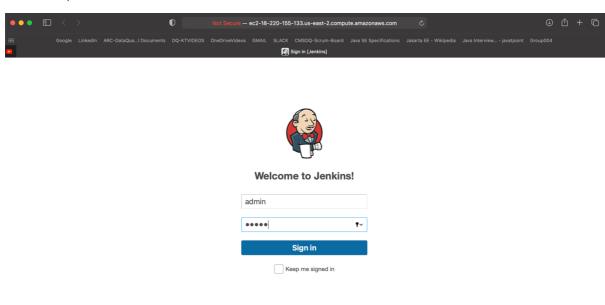


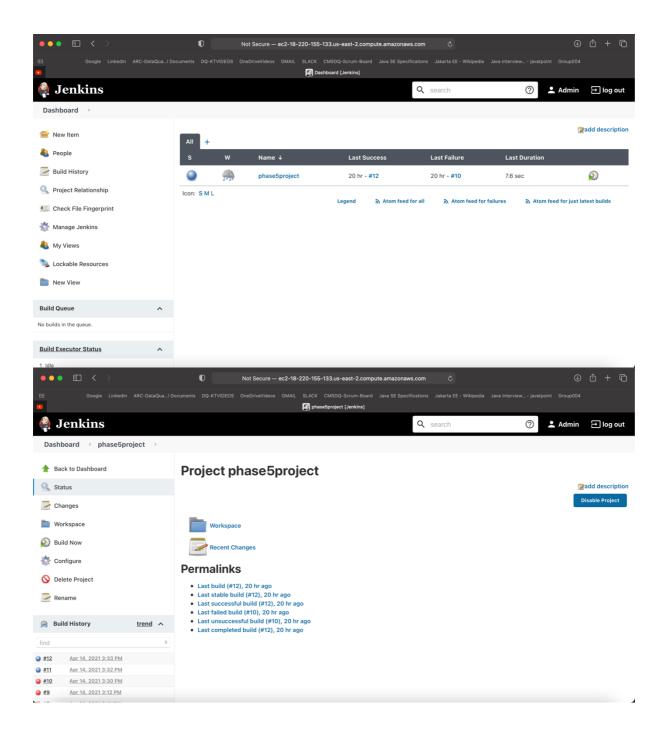
 $\underline{http://ec2\text{-}18\text{-}220\text{-}155\text{-}133.us\text{-}east\text{-}2.compute.amazonaws.com:}8081/$ 

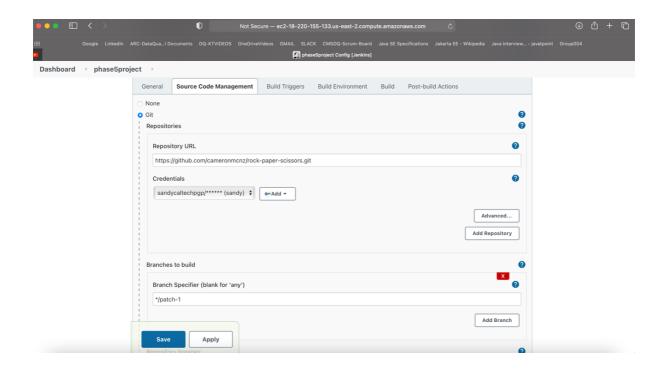
### JENKINS CONSOLE:

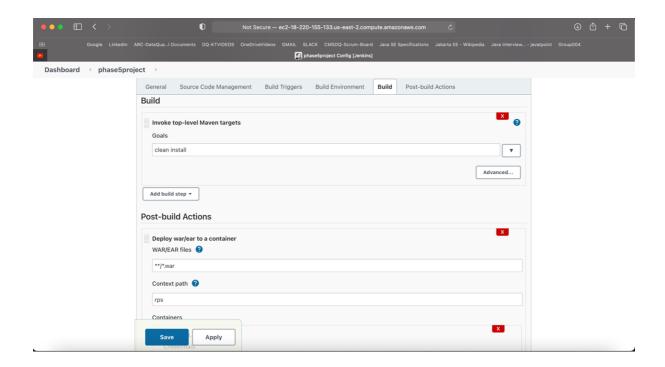
http://ec2-18-220-155-133.us-east-2.compute.amazonaws.com:8080/

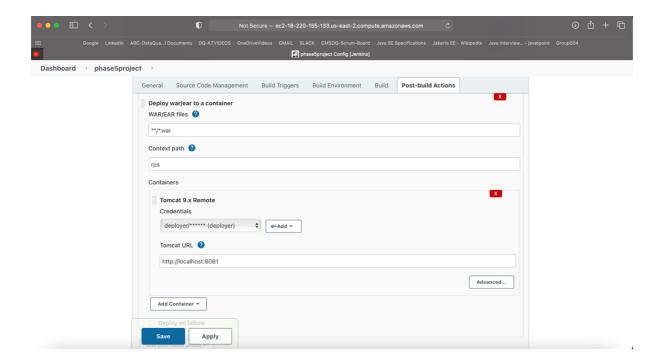
LOGIN: admin/admin







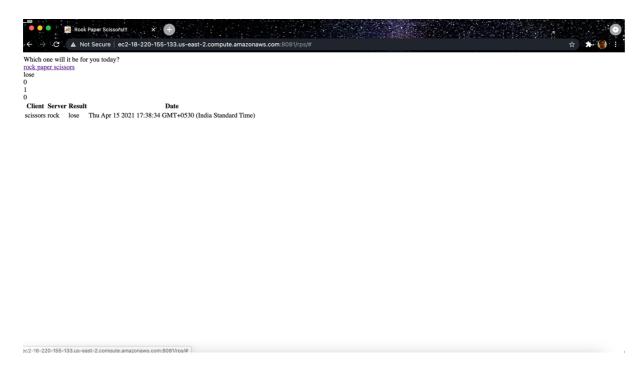




# **BUILD THE PROJECT IN JENKINS**

# SEE THE APP DEPLOYED IN TOMCAT

http://ec2-18-220-155-133.us-east-2.compute.amazonaws.com:8081/rps/



We successfully build a project from GITHUB and deploy on to the EC2 Machine. THE END