GIT Repo Used:

https://github.com/Vagish619 /Edureka-DevOps-Assignments.git

Branch Name:

Assignment3-Git_And_Jenkins

Problem Statement:

Module 3: Git And Jenkins

Problem Statement

You are working as a DevOps Engineer in a company named Sanders & Fresco Pvt ltd. You have been asked by your manager to create a Maven Project using Jenkins and build a war file of that project. As a proof of concept, you have been given a web application to build. And once done with building the war file, deploy it over the tomcat server.

Steps to solve:

- Open Jenkins and create a Maven project using it.
- You will have to create the following jobs, which are as follow:
 - o Compile
 - Code Review
 - Unit test
 - Package
 - o Deploy

You have to complete your job within the given time frame.

Creating Jenkinsfile for creating Pipeline for the mentioned stages:

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 🔚 Jenkinsfile 🔀
          agent any
          tools (
              maven 'maven3'
          stages (
              stage('Compile') {
                 steps {
    sh 'mvn clean install'
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              stage('Code Review') {
                  steps {
echo 'Code Reviewing....'
             stage('Unit Test') {
                 sh 'mvn test'
sh 'mvn test'
              stage('Package') (
                steps {
                  steps {
    echo 'deploying...'
    sh 'mvn tomcat7:deploy'
Normal text file
```

Creating sample Maven Project to be used via Jenkinsfile from SCM:

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1-> Index.jsp
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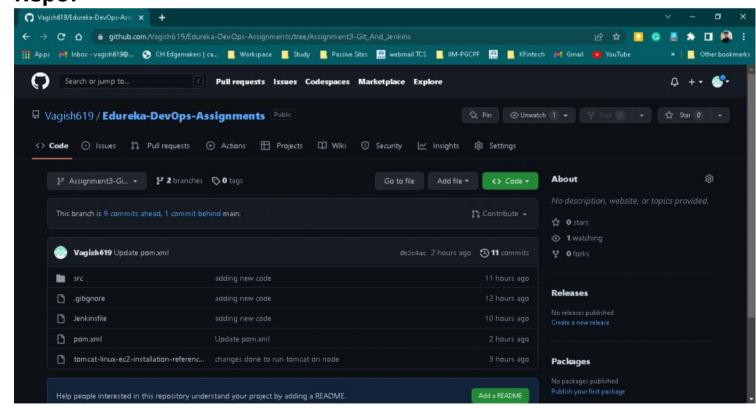
```
File Edit Search View Encoding Language Septings Tools Macro Run Plugins Window ?
 📙 Jenkinsfile 🔀 🔡 index.jsp 🖾 📴 pom.xml 🖸 📄 SampleJUnitService.java 🗵 🗎 SampleJUnitSe
         | cproject xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemalocation="http://maven.apache.org/POM/4.0.0" http://maven.apache.org \( \) cmodelVersionD4.0.0
                 <groupId>com.vagish.app</groupId>
<artifactId>SimpleTomcatWebNpp</artifactId>
                 <packaging>war</packaging>
<version>1.0-SNAPSHOT</version>
                 <name>SimpleTomcatWebApp Maven Webapp</name>
<url>http://maven.apache.org</url>
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                      coperties>
<maven.compiler.target>1.8</maven.compiler.target>
<maven.compiler.source>1.8</maven.compiler.source>
                  </properties>
                 <dependencies>
                      <!-- JUnit -->
                      <dependency>
<groupId>junit</groupId>
                           <artifactId junit</artifactId
<version>4.13.2</version>
<scope>test</scope>
                      </dependency>
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                 </dependencies>
<build>
         ¢
                      <finalName>SimpleTomcatWebApp</finalName>
         þ
                      <plugins>
  <!-- Tomcat plugin -->
                            <plugin>
                                dgrnupId>org.apache.tomcat.maven</groupId>
<artifactId>tomcat7-maven-plugin</artifactId>
<version>2.0</version>
                                 <configuration
                                 <configuration>
<urb http://ls.183.160.60:8080/manager/text</urb
<server)18.183.160.60</server>
<path/5{project.build.finalName}</path>
</configuration>
                             </plugin>
eXtensible Markup Language file
                                                                                                         Unix (LF)
                                                                                                                                                                                                                            UTF-8
```

3-> Service Class

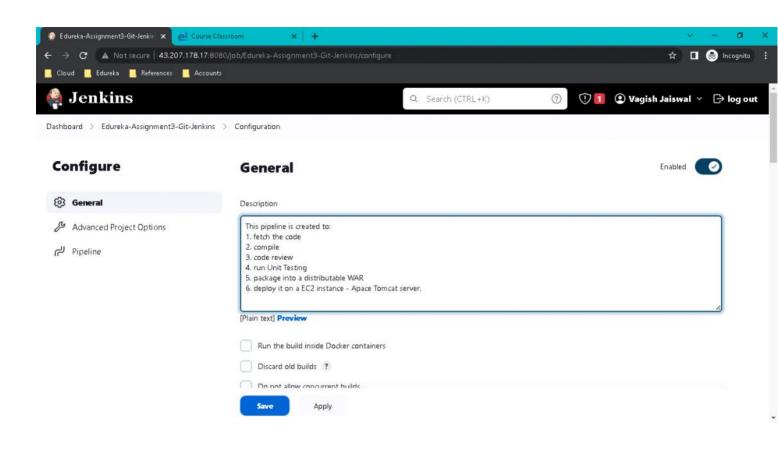
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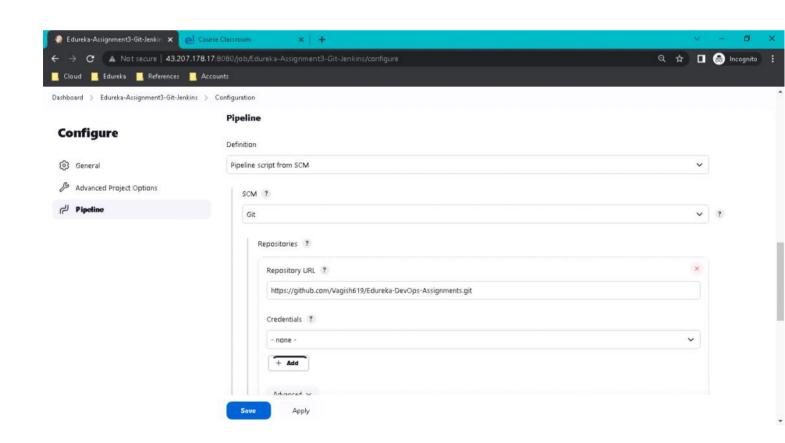
4-> Junit of Service class

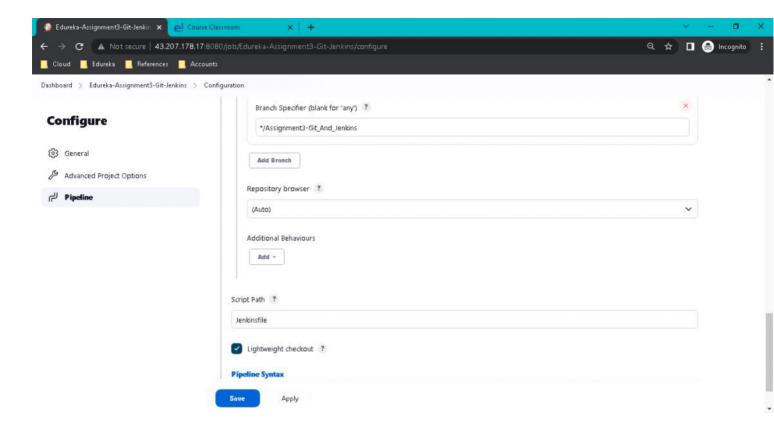
Adding code in SCM GIT Repo:



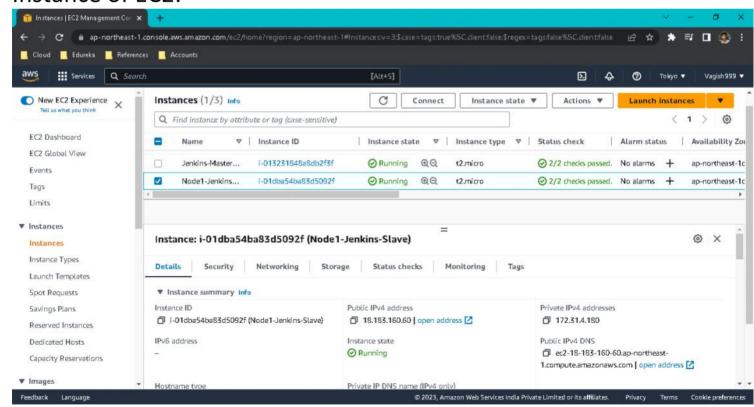
Creating Jenkins Pipeline to perform all the mentioned tasks:

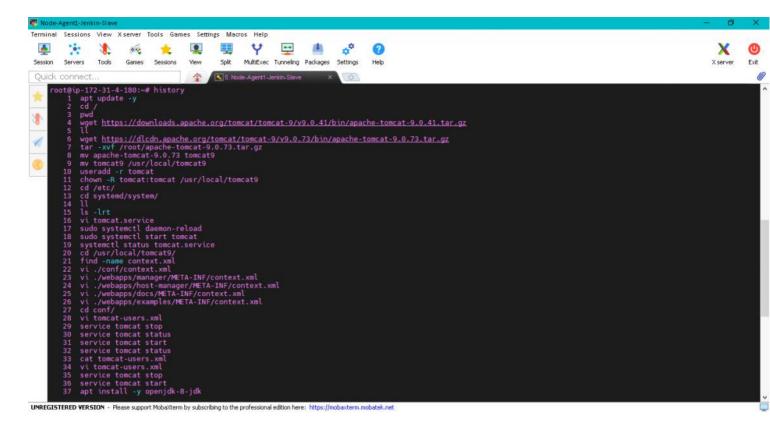




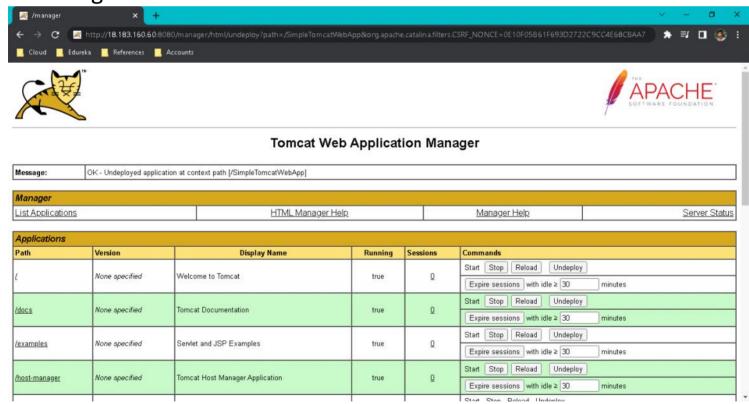


Installing tomcat on Slave Instance of EC2:

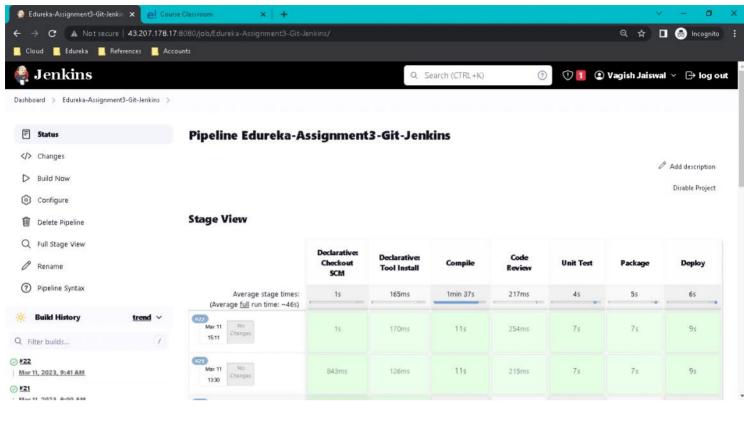


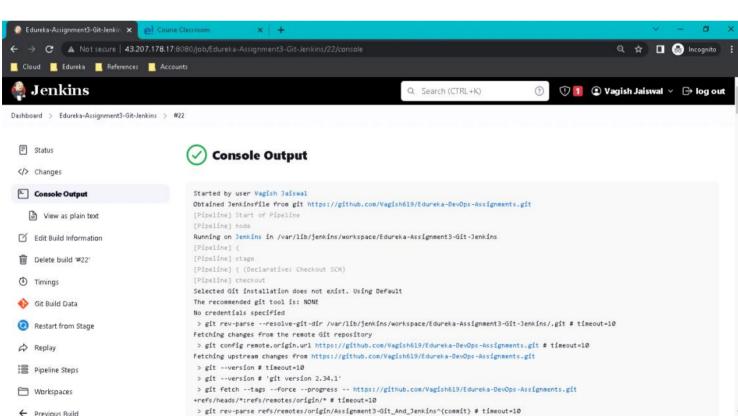


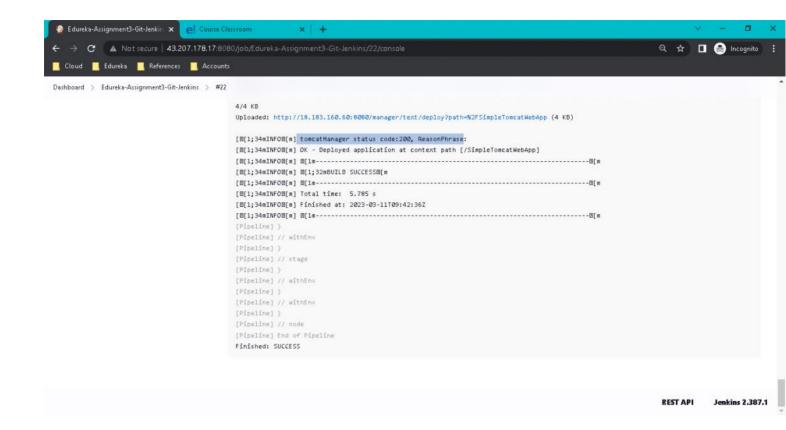
Checking tomcat server status:



Running Pipeline:

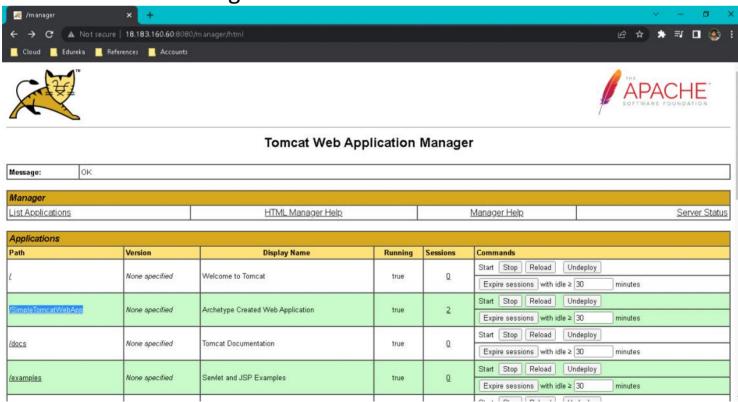






End Result:

1-> Tomcat Admin Page



2-> Web page from deployed WAR



Hello World from VAGISH

You have successfully deployed the SampleTomcatWeb War. Good Job!