JENKINS USING A MAVEN IN A TOMACT RUN IN A WEBSITES AUTOMATICALLY

**Requirement:**

**1.Ec2 instance**

**2.jenkin**

**3.tomcat**

**4.githubrepsitory**

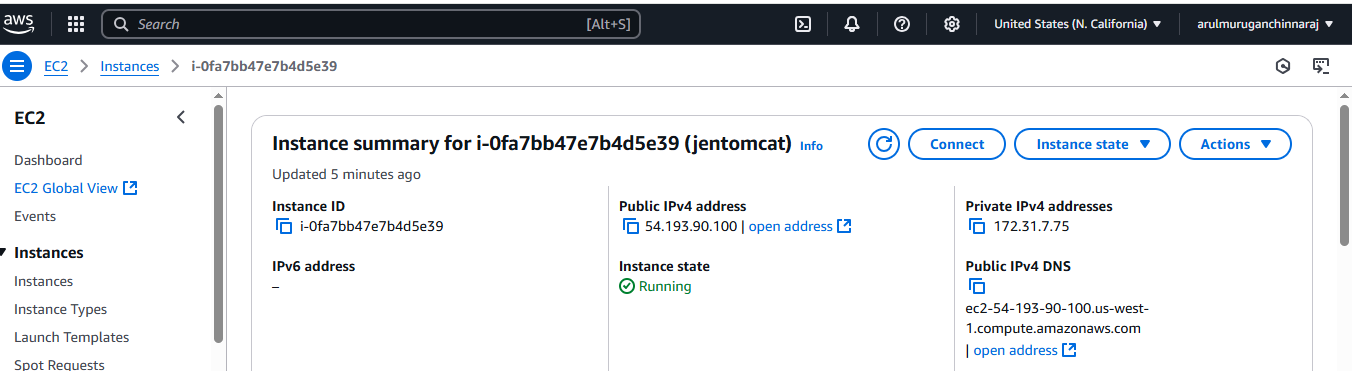
**5. war file**

**Project creation steps**

**Step1:**

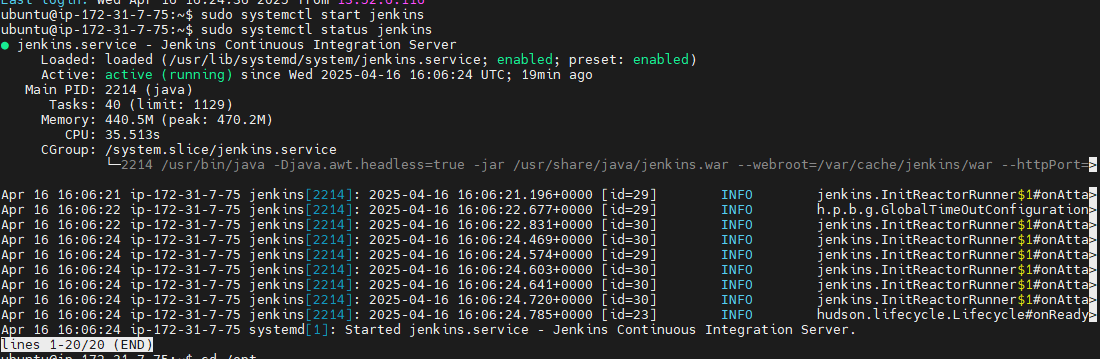
**Ec2:**

**Instance creation:**



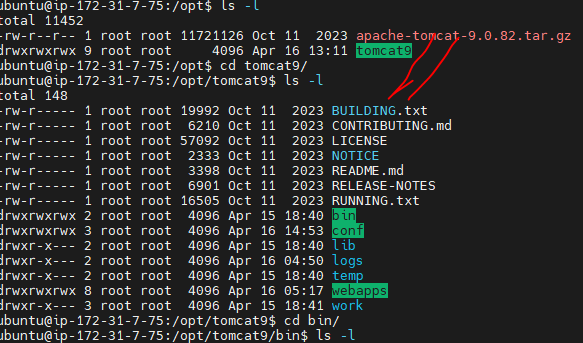
**Jenkins:**

**Jenkins install the ec2 machine and configurations**



**Tomcat:**

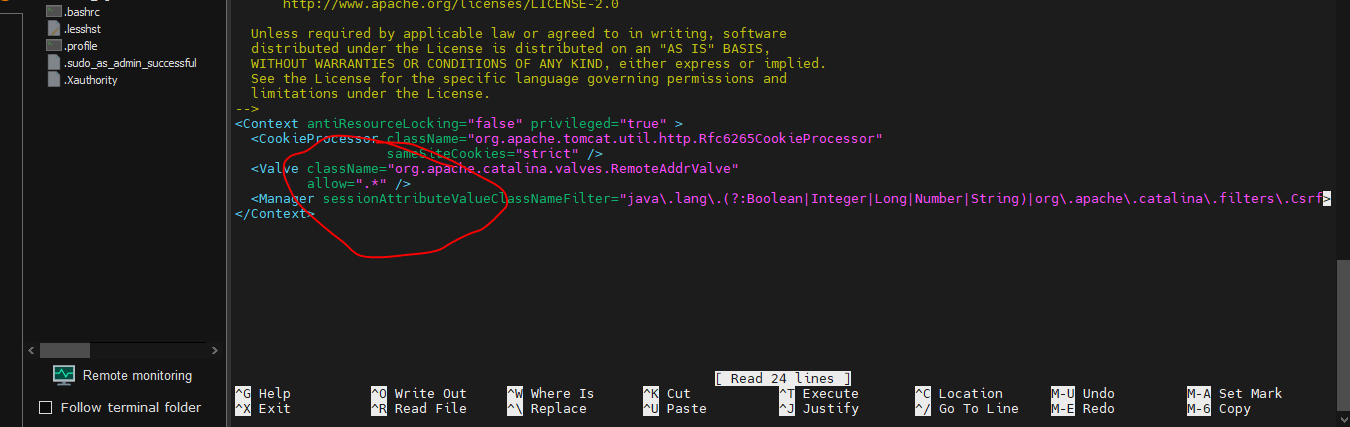
**Tomcat installation and configuration**



**Conf- file configuration:**

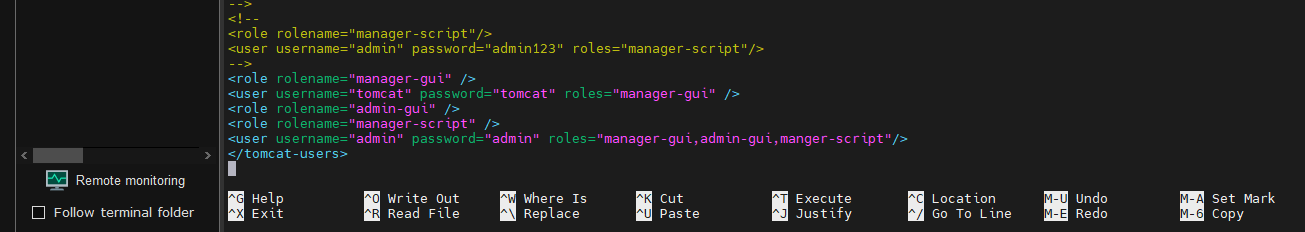
**Context.xml**

**/opt/tomcat9/webapps/manager/META-INF/context.xml**



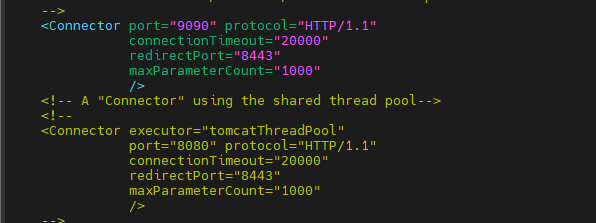
**User name and password:**

**Add the username and password in tomcat-user-name.xml**

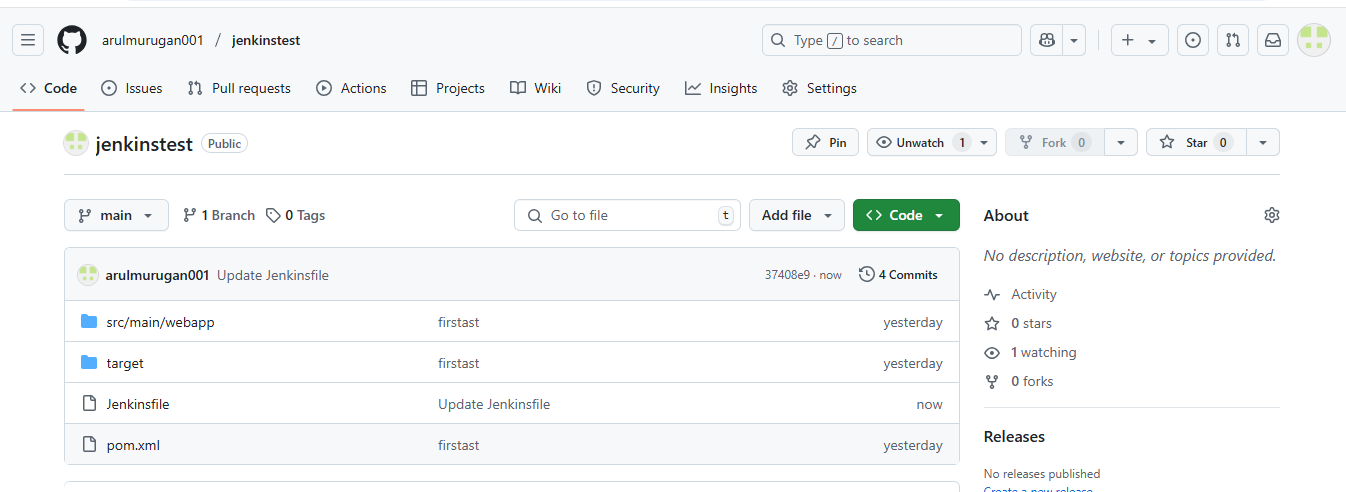
**/opt/tomcat9/conf/ tomcat-user-name.xml** 

**Portnumber change:**

**server.xml –9090 portnumber change**



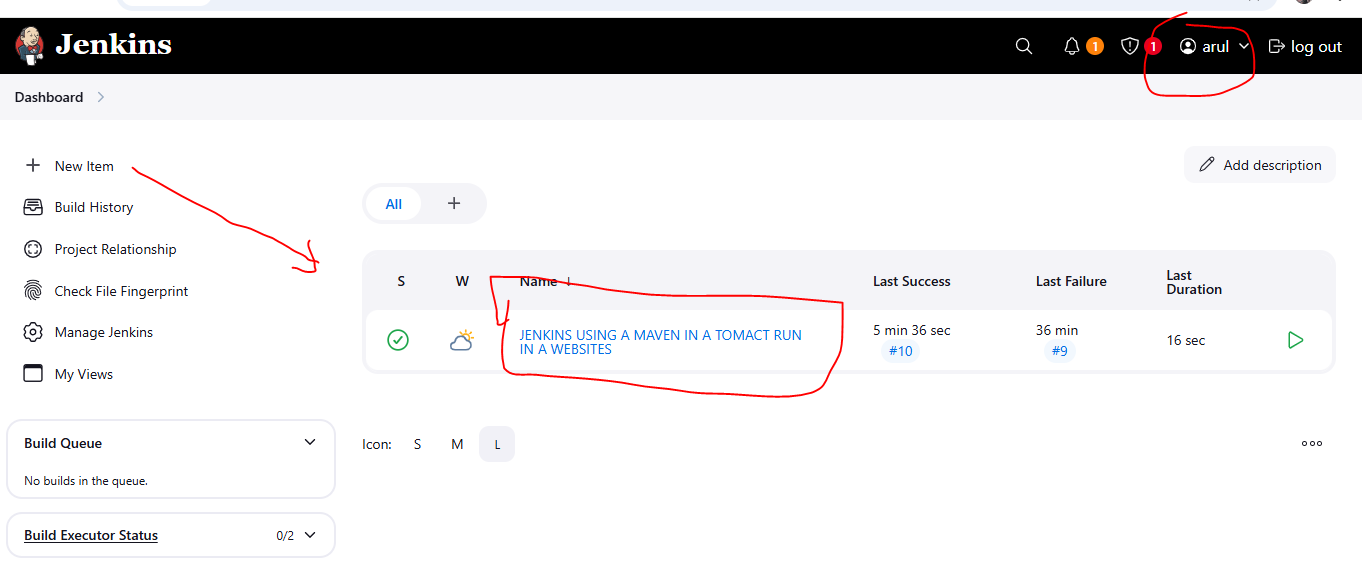
**Git hub repository:login**



**Step2:**

**jenkins job creation**

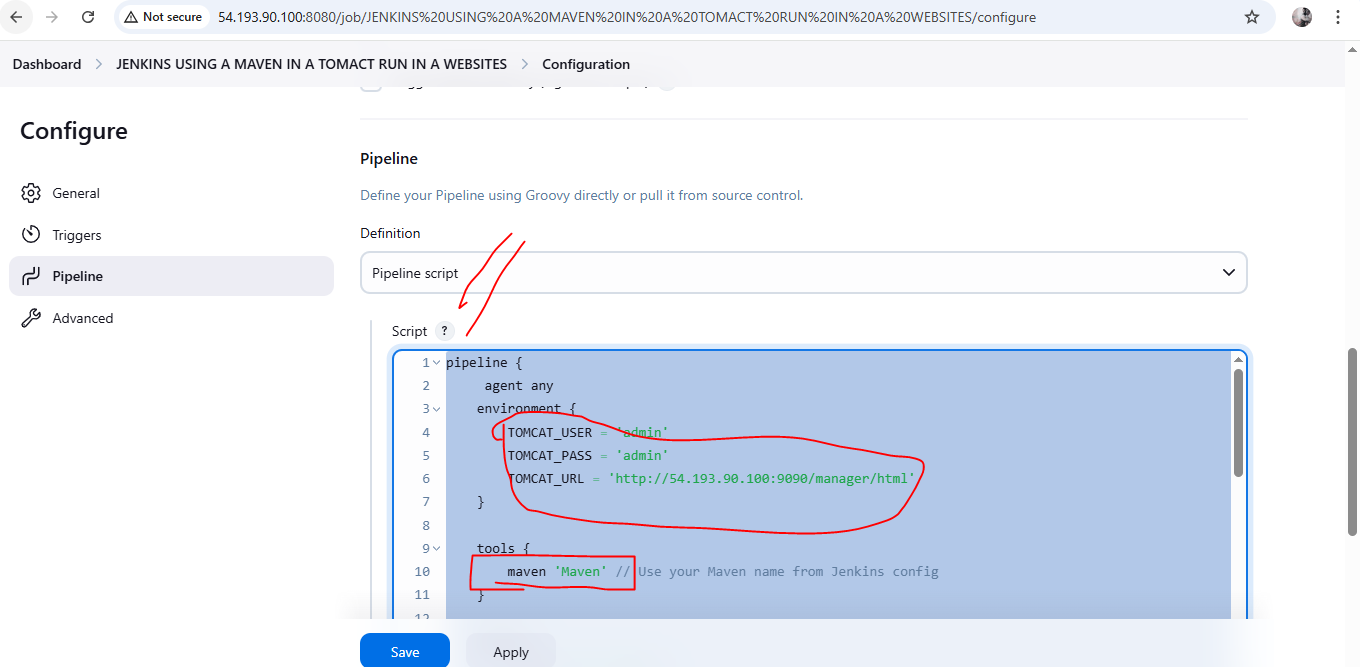
**login the jenkin and create the new item write the name and select the pipeline and OK-apply**



**configurations:--add JK,maven,git in tools next add the necessary plugins maven integration, deploy to container**

**code: got to configuration select the pipeline-write a code**

**pipeline script**



**Code:**

**pipeline {**

**agent any**

**environment {**

**TOMCAT\_USER = 'admin'**

**TOMCAT\_PASS = 'admin123'**

**TOMCAT\_URL = 'http://13.57.37.189:9090/'**

**}**

**tools {**

**maven 'Maven' // Use your Maven name from Jenkins config**

**}**

**stages {**

**stage('Clone Repo') {**

**steps {**

**git credentialsId: 'github-creds',**

**url: 'https://github.com/arulmurugan001/jenkinstest.git',**

**branch: 'main'**

**}**

**}**

**stage('Build WAR') {**

**steps {**

**sh 'mvn clean package'**

**}**

**}**

**stage('Deploy WAR to Tomcat') {**

**steps {**

**deploy adapters: [tomcat9(credentialsId: 'git\_busaaaa', path: '', url: 'http://13.57.37.189:9090/')], contextPath: 'meaning&job', war: '\*\*/\*.war'**

**}**

**}**

**}**

**}**

**Using Pipeline syntax to create the deploy to war code we hava to clealy mentioned**

**1.context path**

**2.war file extension**

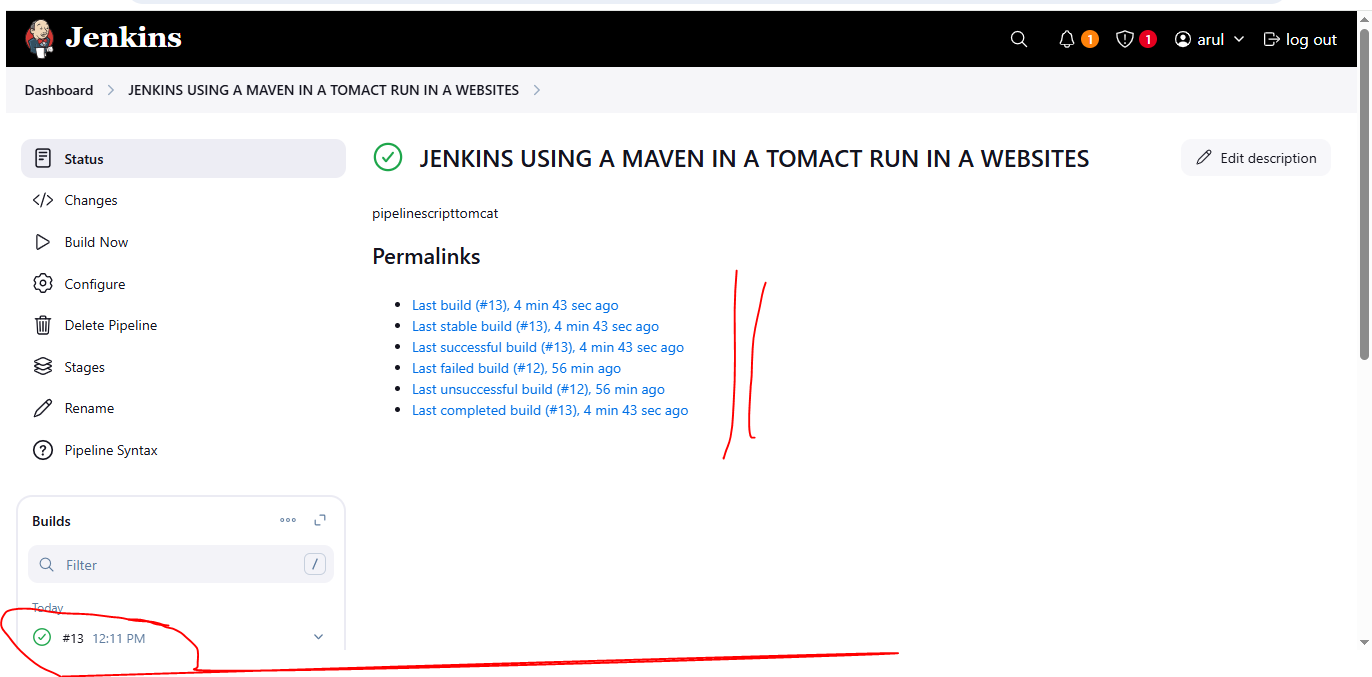
**3.user name and password for tomcat container -------- generate the code and copy & paste the code section**

**Save and apply**

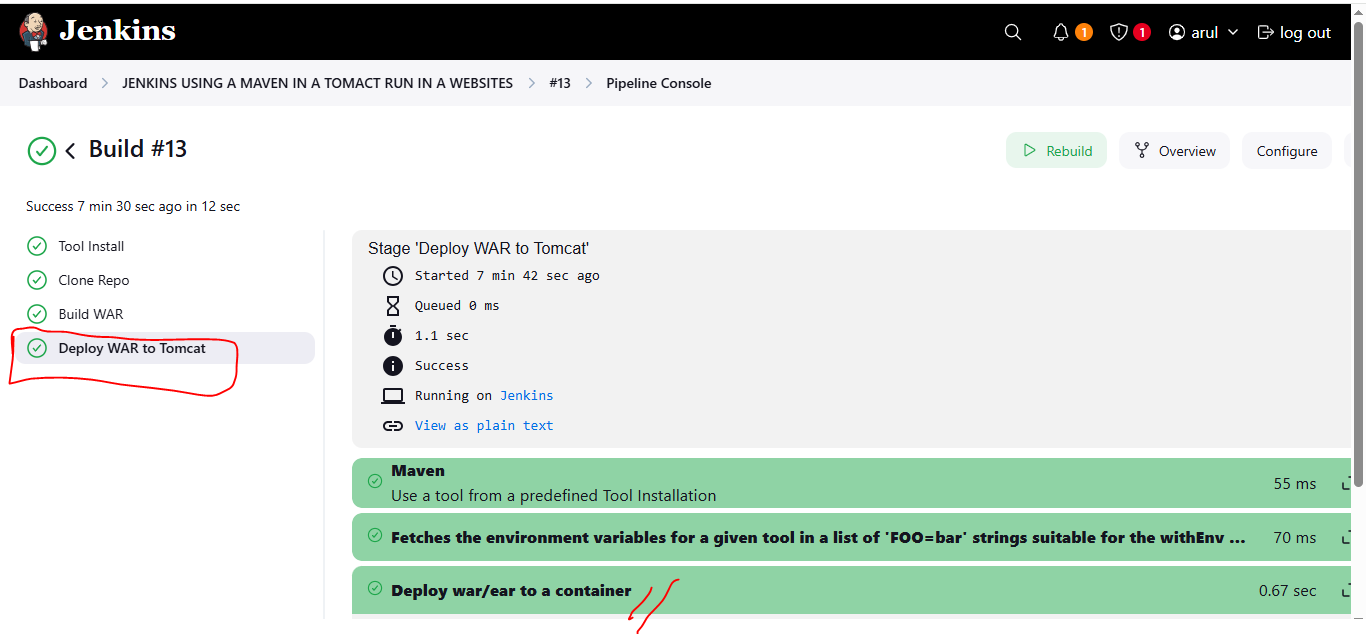
**Step3:**

**Build the Job:**

**got to the Jenkins job click the Build now**



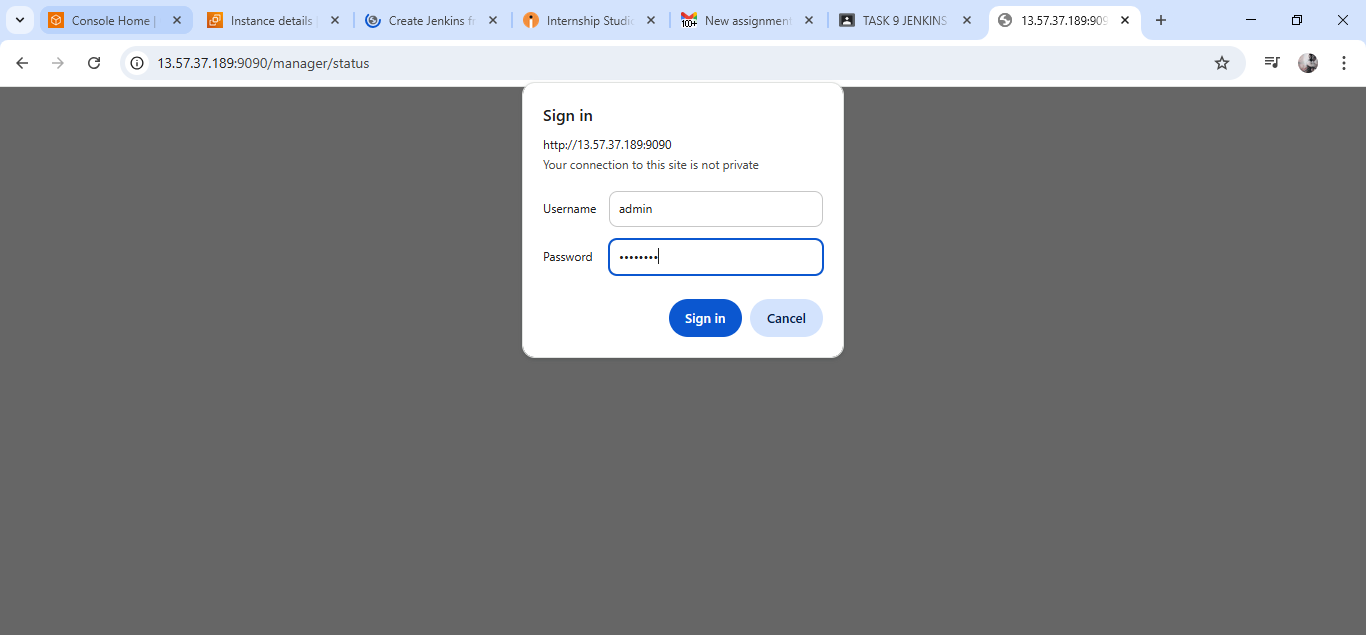
**Output: Output checking in the Jenkins**



**Step4:**

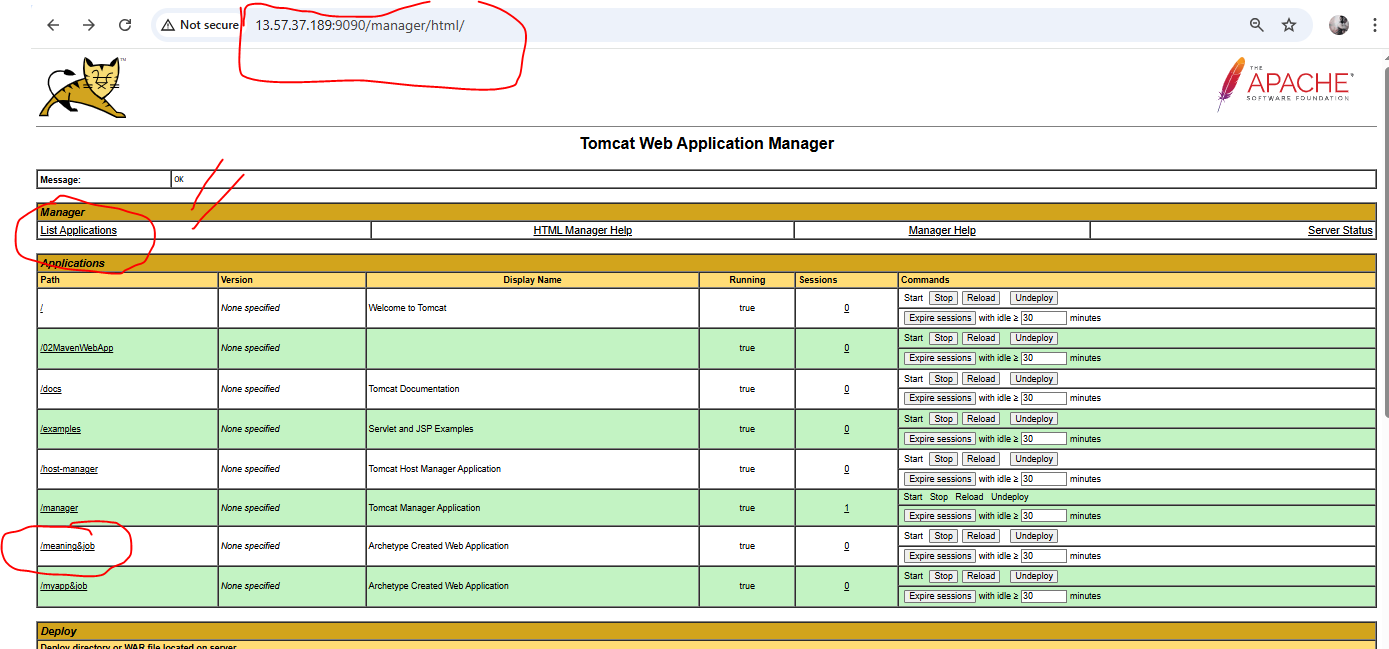
**Tomcat login:**

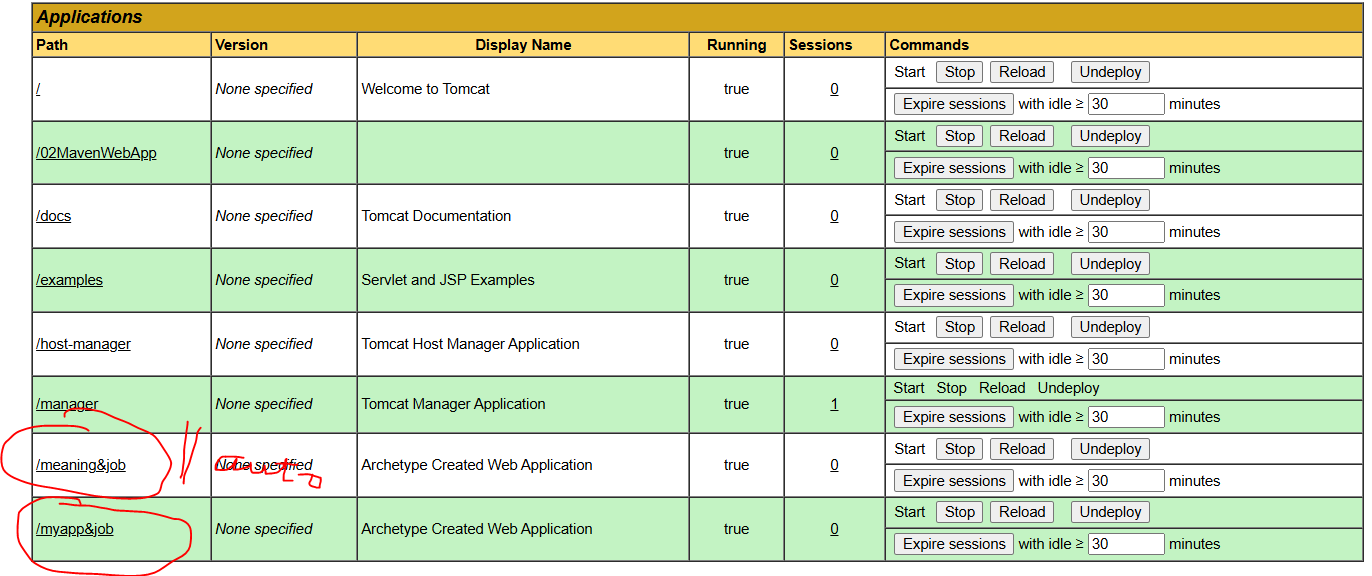
**Login the tomcat server using username and password:**



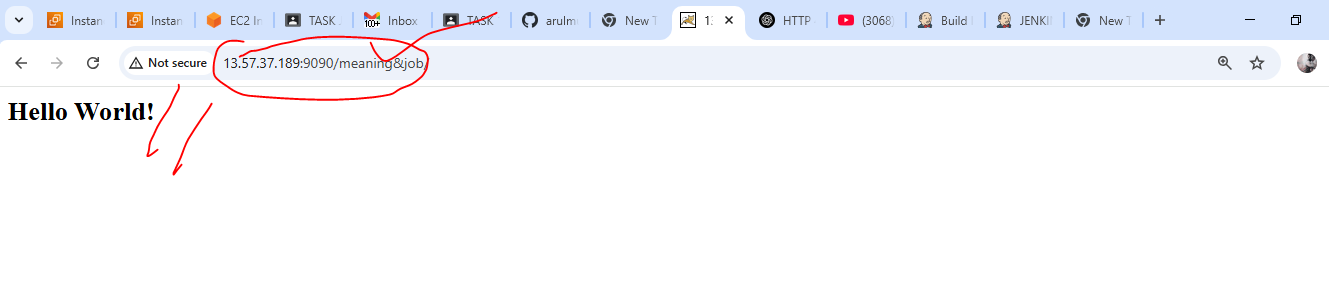
**Deploy the .war file**

**/meaning&job – file automatically deploy into the tomcat webserver-verified**





**File content:**

**verified** 

**url:**

**https://github.com/arulmurugan001/jenkinstest.git**