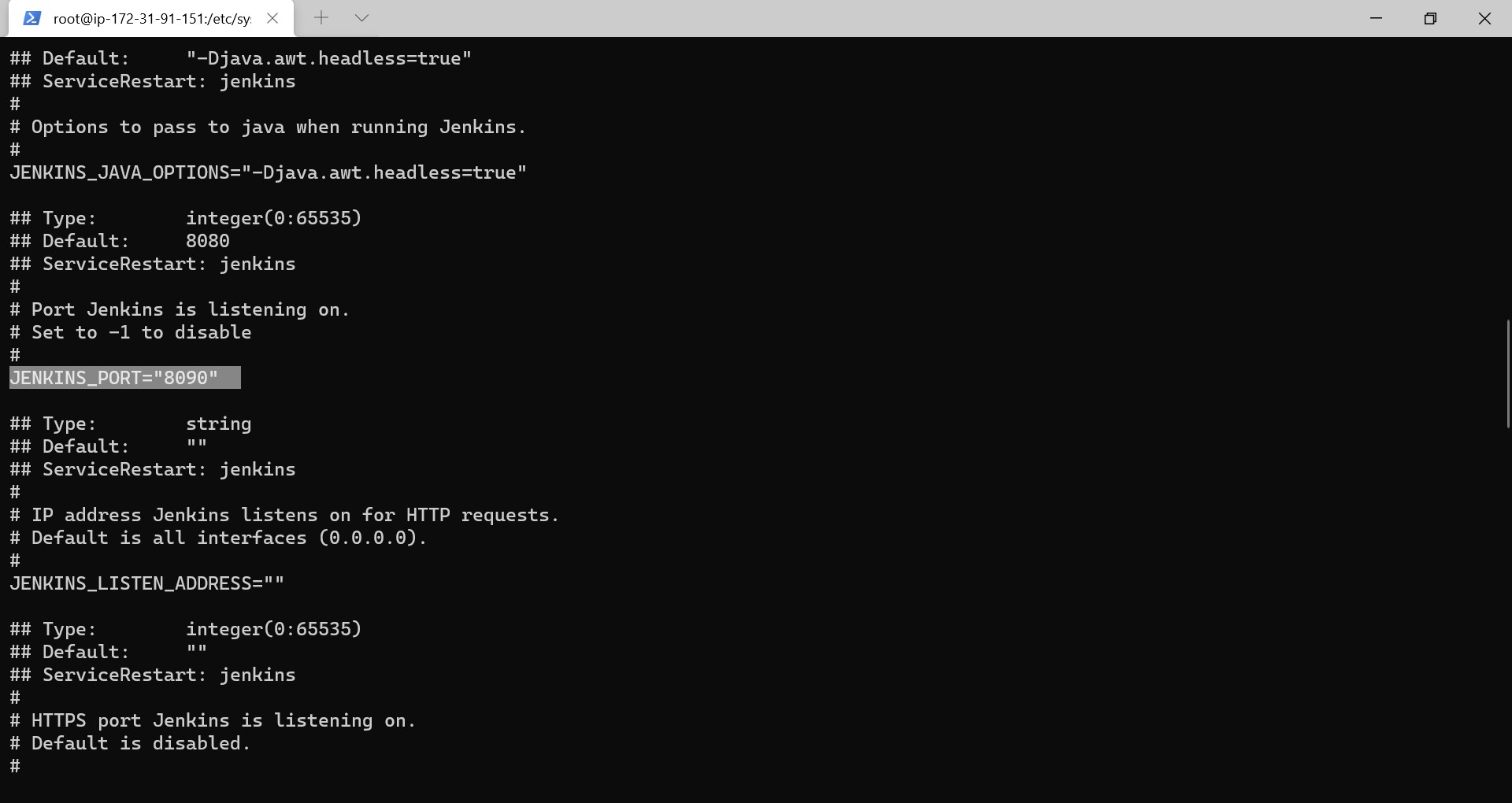
**To change Jenkins port after installation**

**/etc/default/jenkins or /etc/sysconfig/jenkins Vi jenkins**

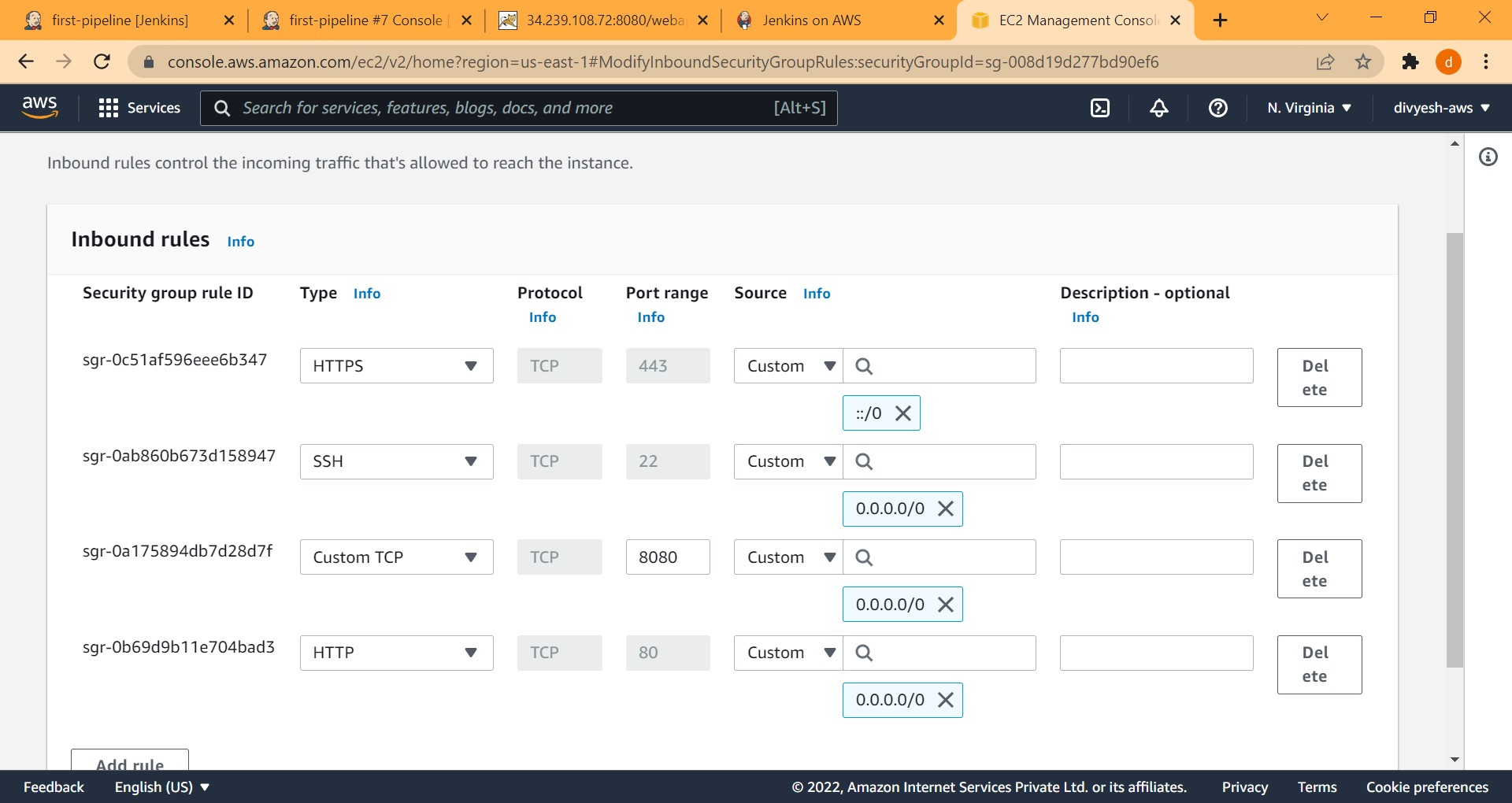
**sudo service jenkins restart**



# **sudo service jenkins status sudo service jenkins start**

**To install jenkins on ec2 (free tier instance -linux)**

Security grp



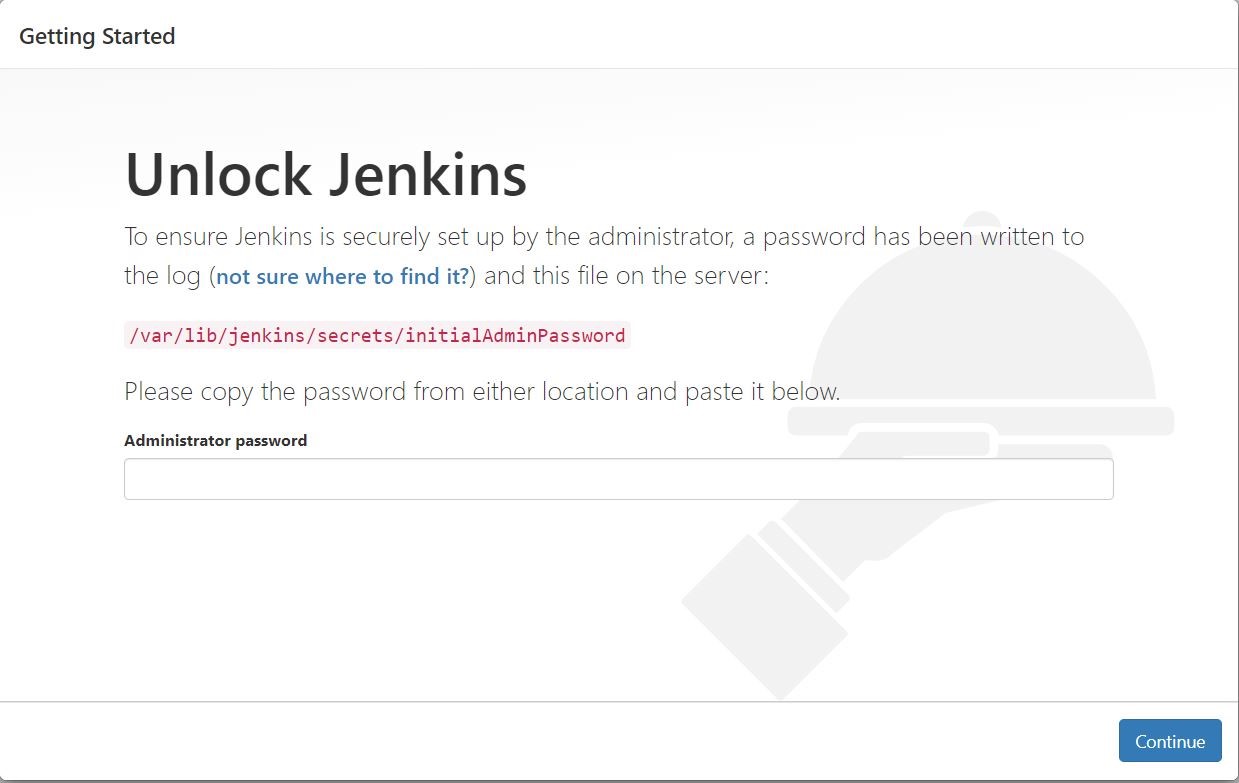
Connect to ec2 machine follow the below link [official document](https://www.jenkins.io/doc/tutorials/tutorial-for-installing-jenkins-on-AWS/)

# Configure Jenkins

Jenkins is now installed and running on your EC2 instance. To configure Jenkins:

● Connect to http://<your\_server\_public\_DNS>:8080 from your favorite browser.

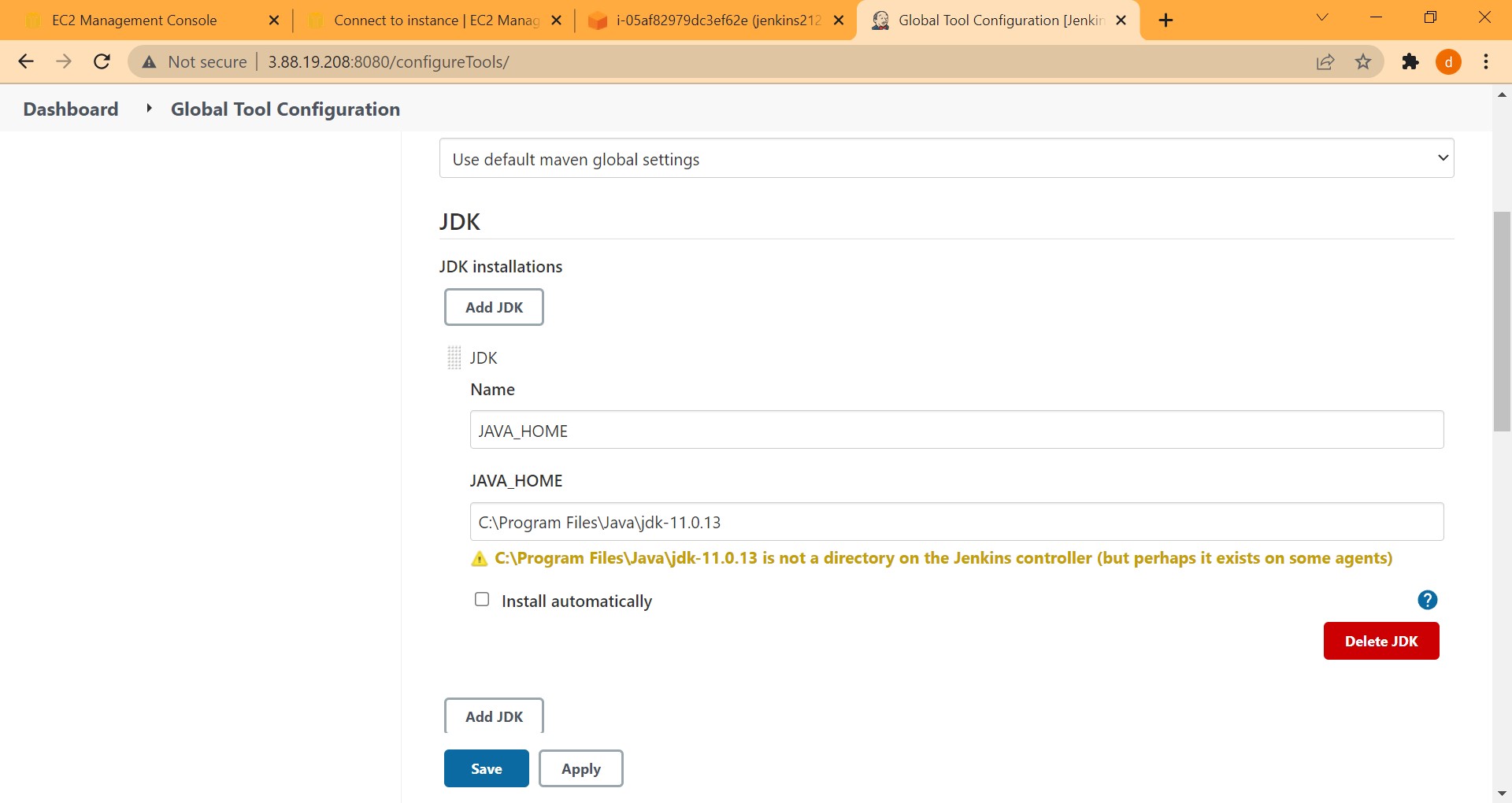
You will be able to access Jenkins through its management interface:



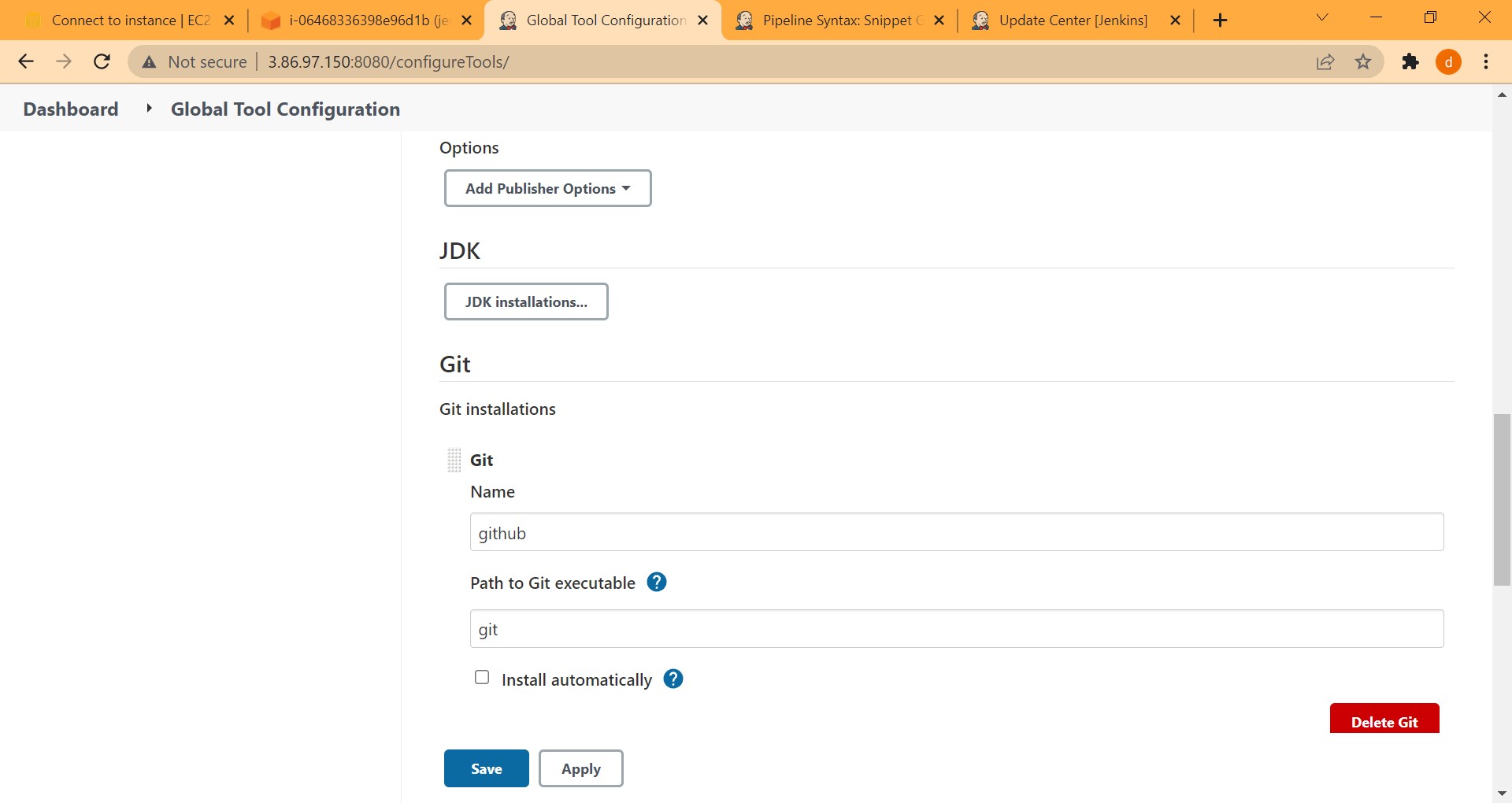
**sudo cat /var/lib/jenkins/secrets/initialAdminPassword**

(copy the passwd and paste in jenkins)

Configure now (Add the java path as below)

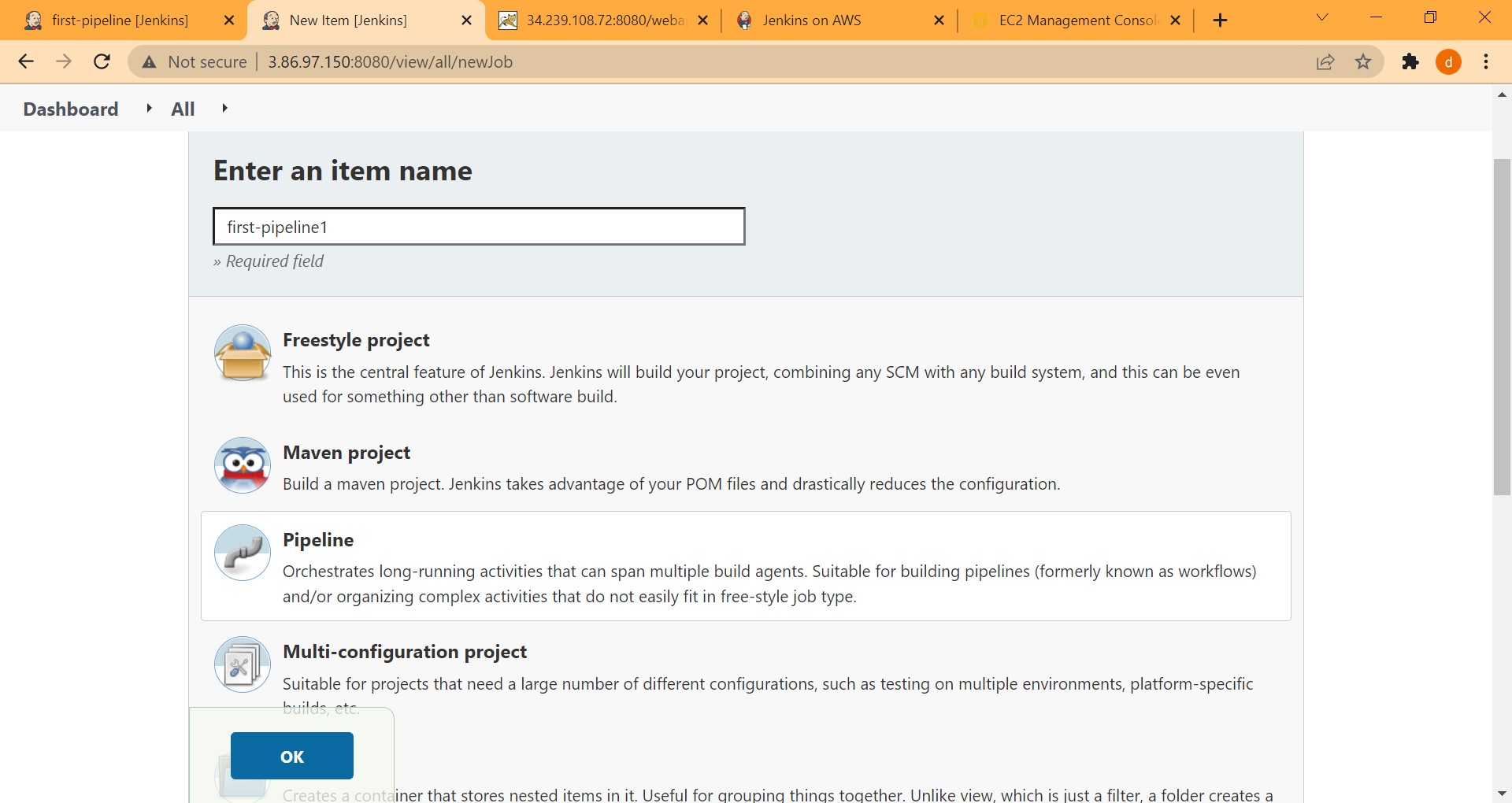


Git install on jenkins (run the below cmd on ec2) yum install git -y

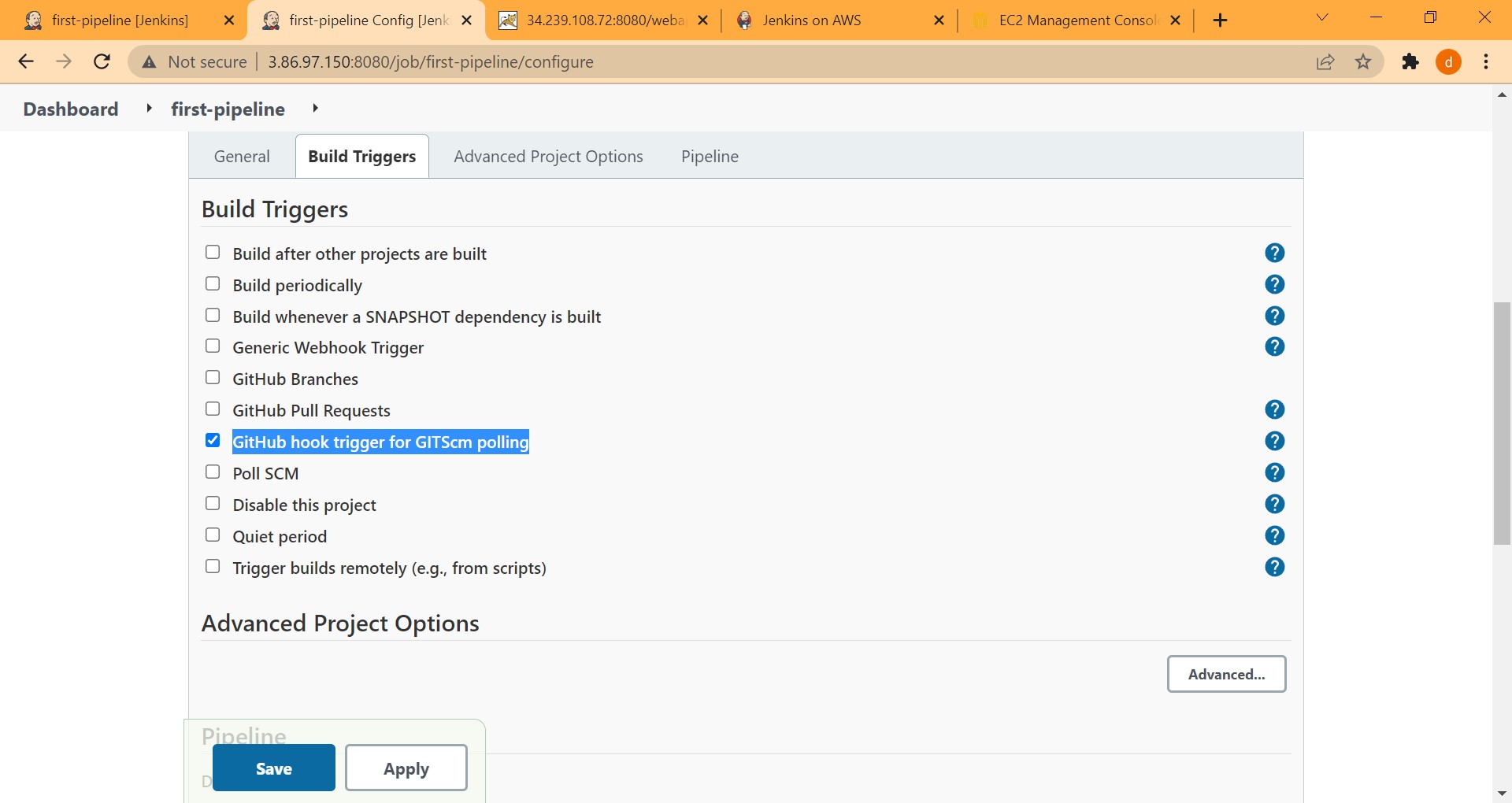


Create a new job in jenkins

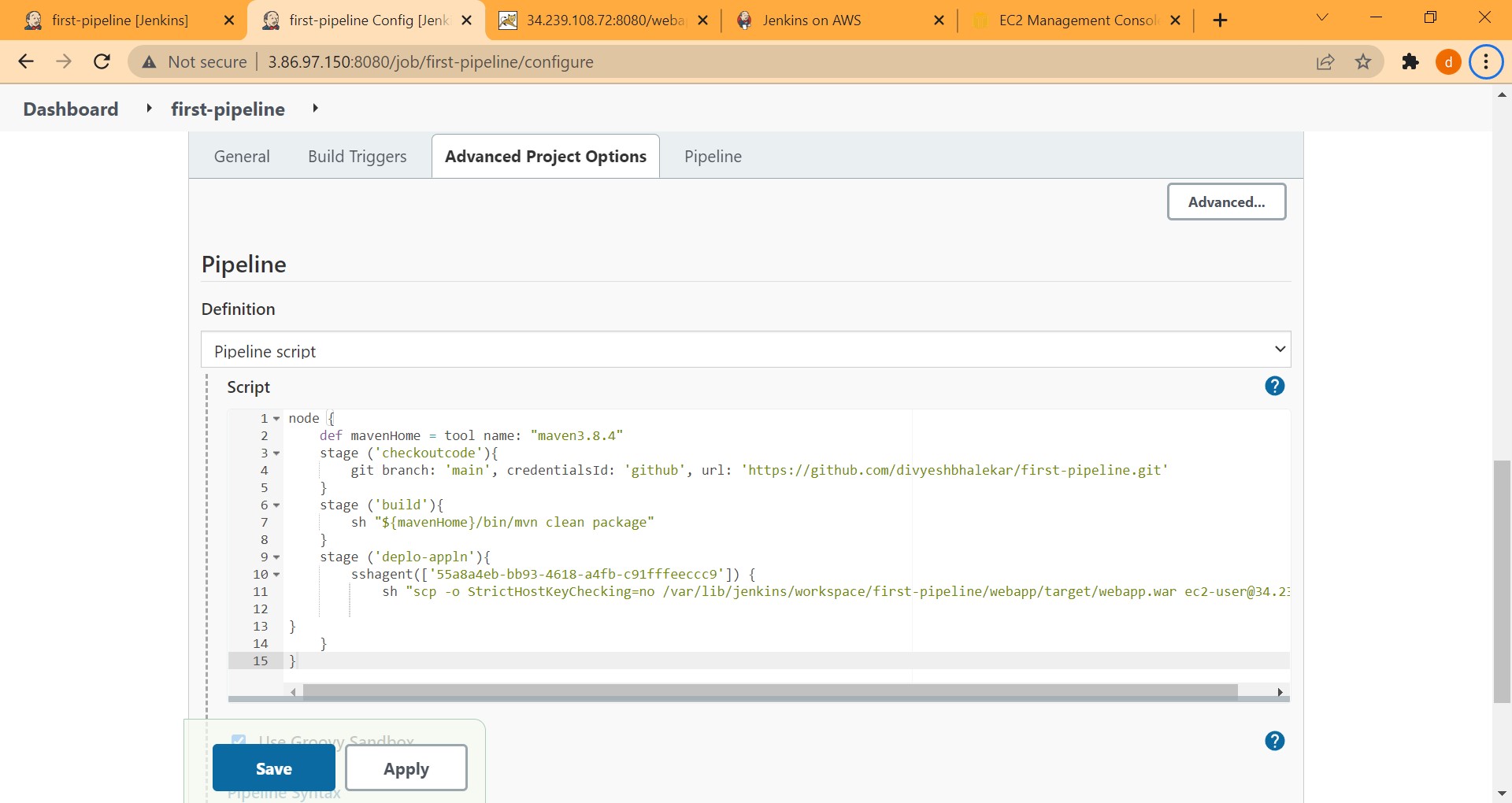
Steps for pipeline project: give name -> select pipeline -> ok



Step 1:Select -> GitHub hook trigger for GITScm polling



Step 2 : Advanced Project options



Step 3: select pipeline script and paste this make changes accordingly

node {

def mavenHome = tool name: "maven3.8.4"

stage ('checkoutcode'){

git branch: 'main', credentialsId: 'github', url:

'https://github.com/divyeshbhalekar/first-pipeline.git'

}

stage ('build'){

sh "${mavenHome}/bin/mvn clean package"

}

stage ('deplo-appln'){

sshagent(['55a8a4eb-bb93-4618-a4fb-c91fffeeccc9']) {

sh "scp -o StrictHostKeyChecking=no

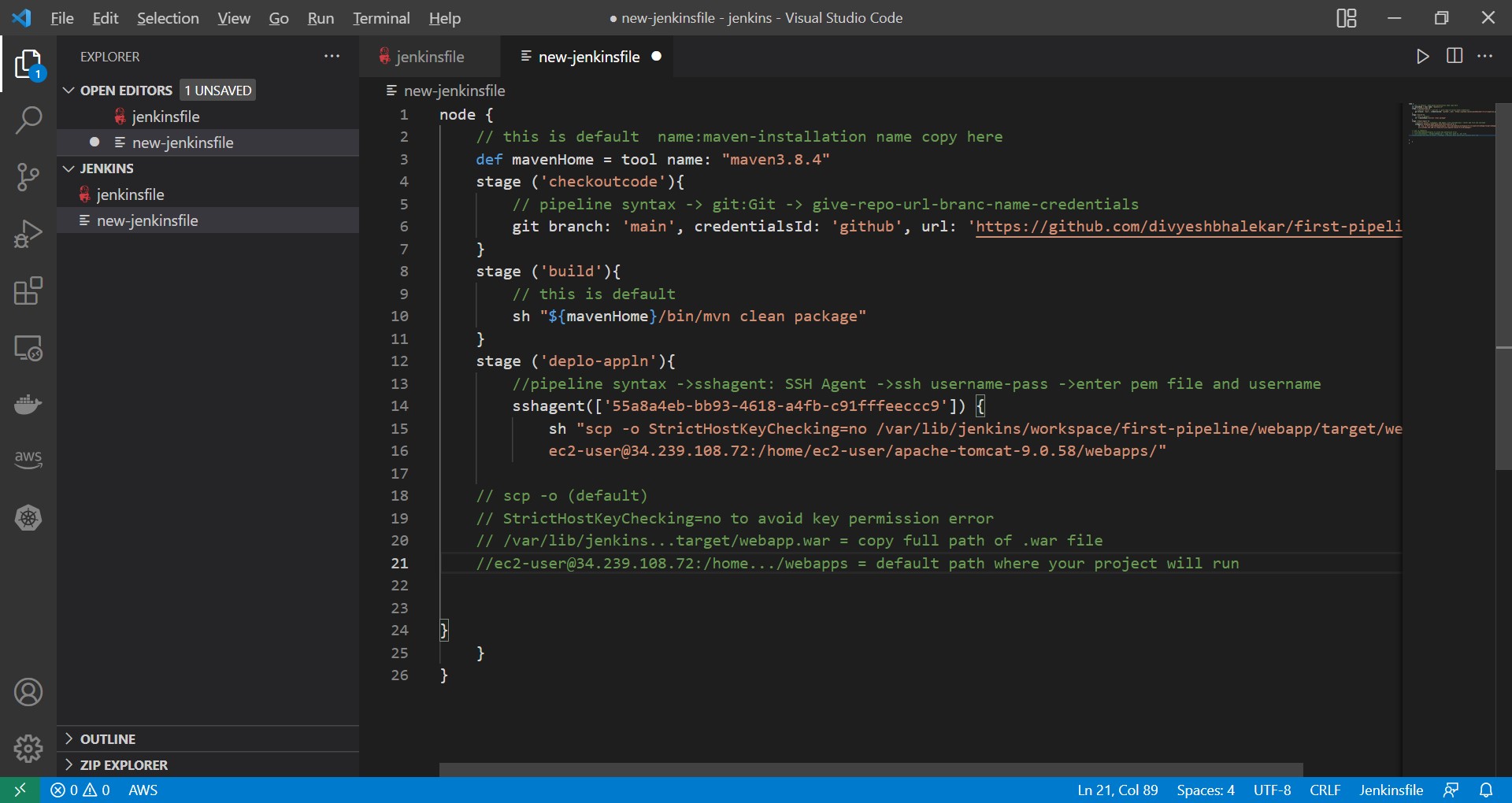
/var/lib/jenkins/workspace/first-pipeline/webapp/target/webapp.war ec2-user@34.239.108.72:/home/ec2-user/apache-tomcat-9.0.58/webapps/"

}

}

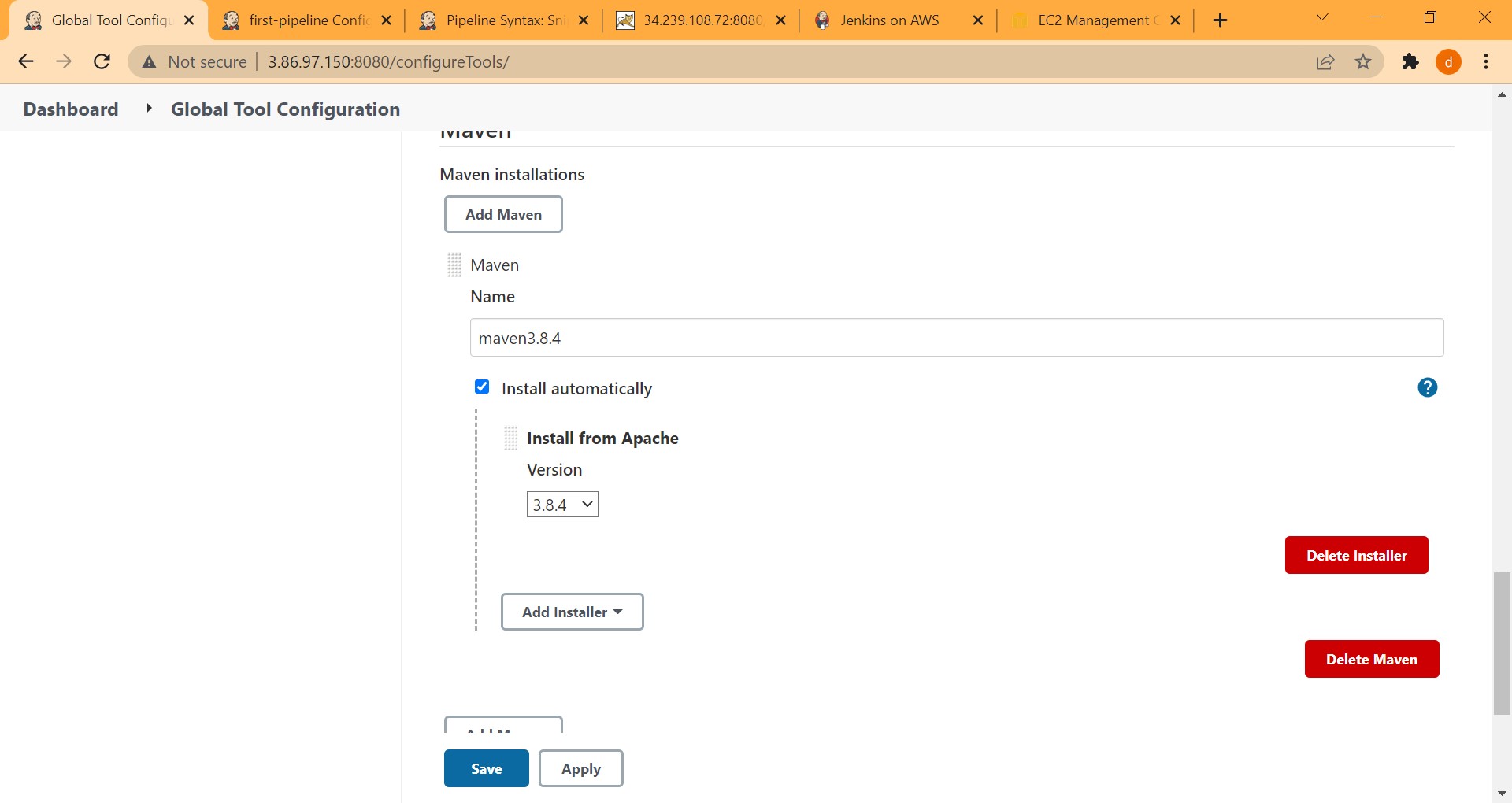
}

# code explanation

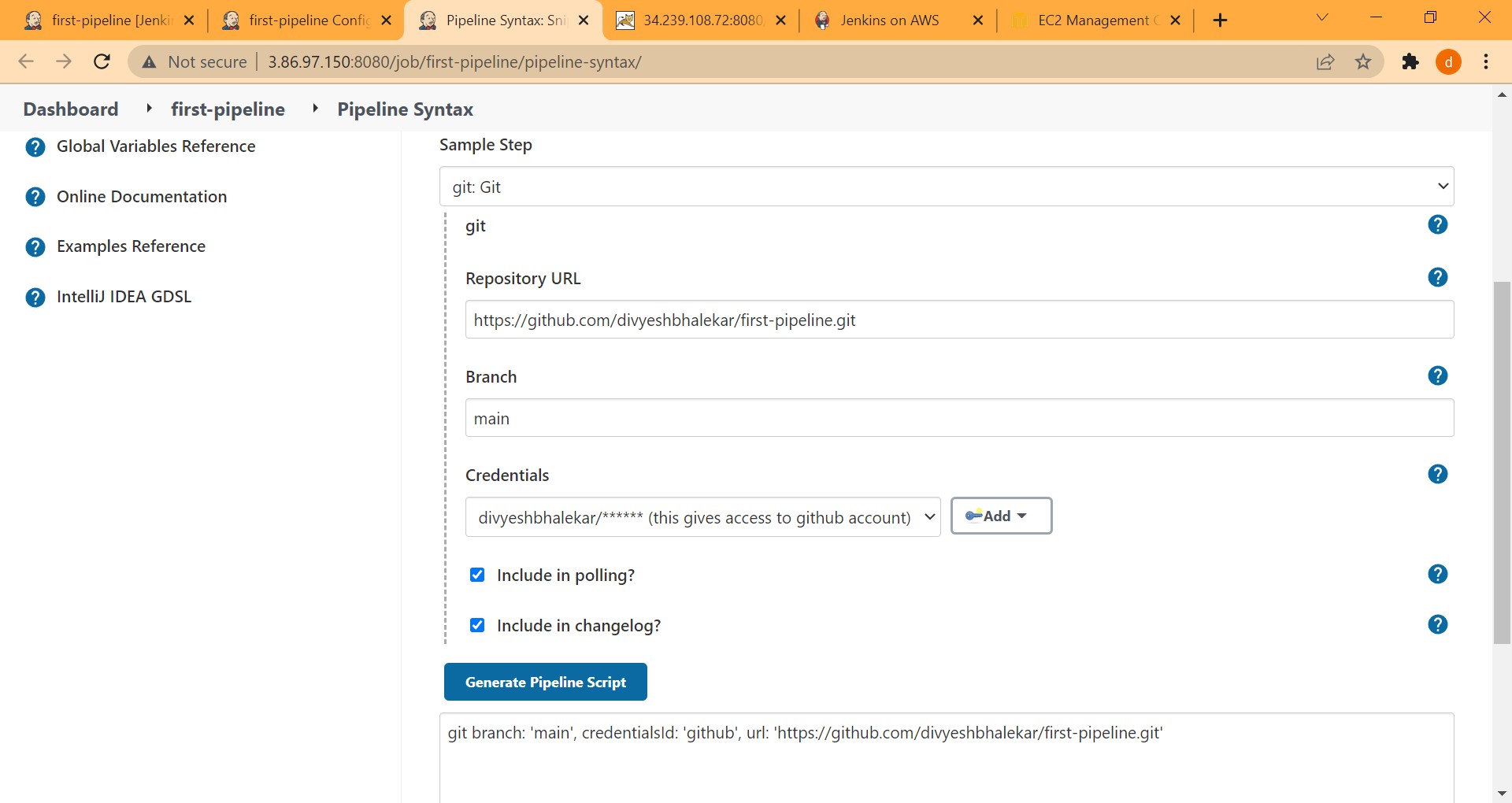


**Steps to generate code**

|  |
| --- |
| **// this is default name:maven-installation name copy here** |
| **def mavenHome = tool name: "maven3.8.4"** |



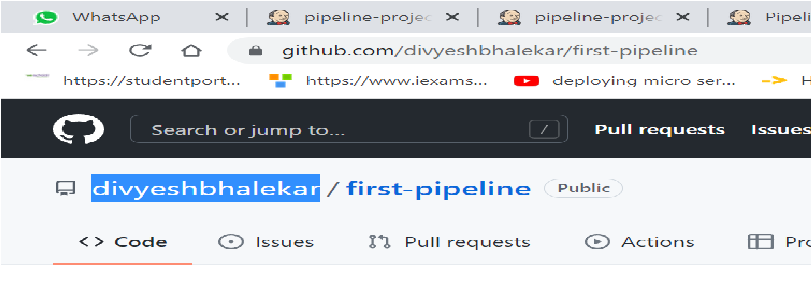
|  |
| --- |
| stage ('checkoutcode'){ |
| // pipeline syntax -> git:Git -> give-repo-url-branc-name-credentials |
| git branch: 'main', credentialsId: 'github', url: |
| 'https://github.com/divyeshbhalekar/first-pipeline.git' |



**To add credentials**

**github username (the name side to your repo name)**

## Username : divyeshbhalekar



**Github-setting -> developer-setting -> generate-new-token ->select**

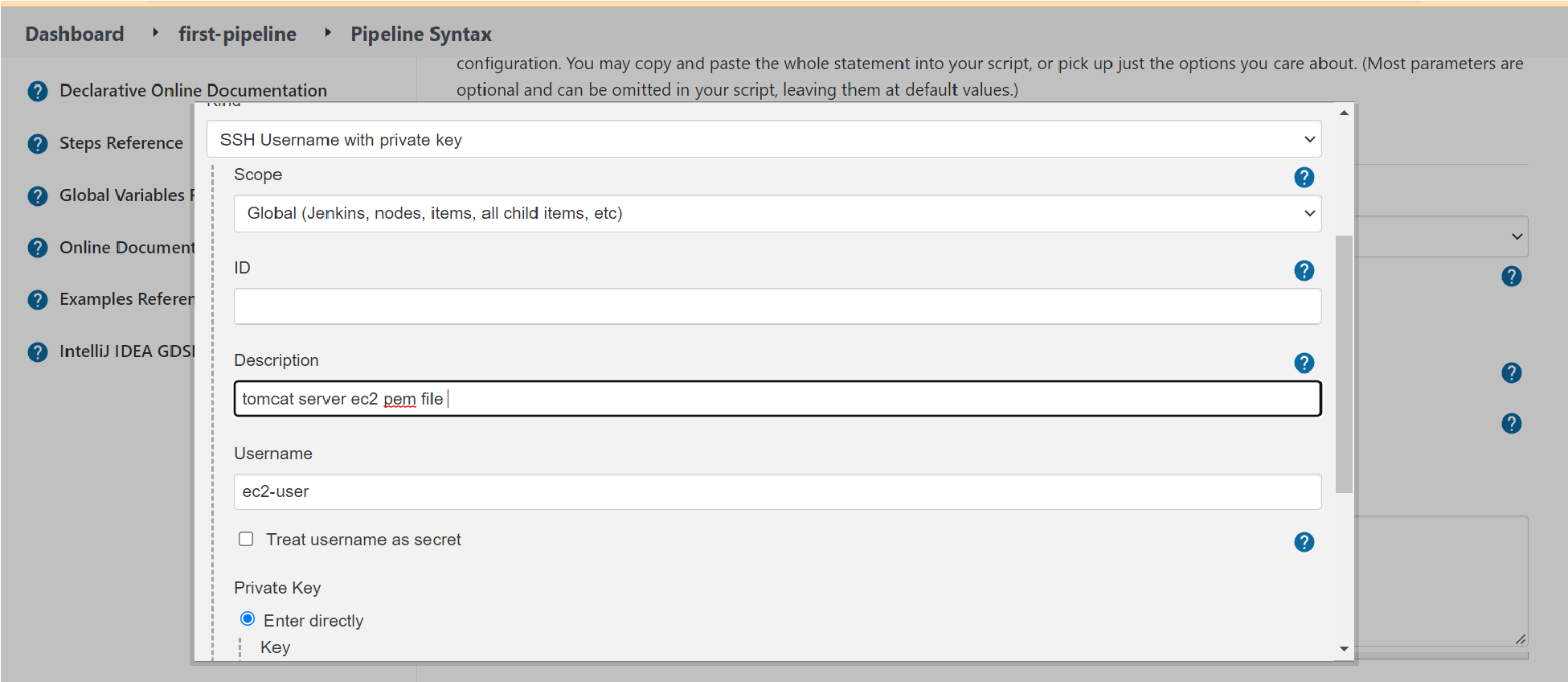
**Repo -> admin:org -> admin:repo\_hook -> notification -> generate token & paste in psswd**

### Password : ghp\_AMcfwfZWY1nTIeZsJmS9dogNNzEoR7mX

Id : github

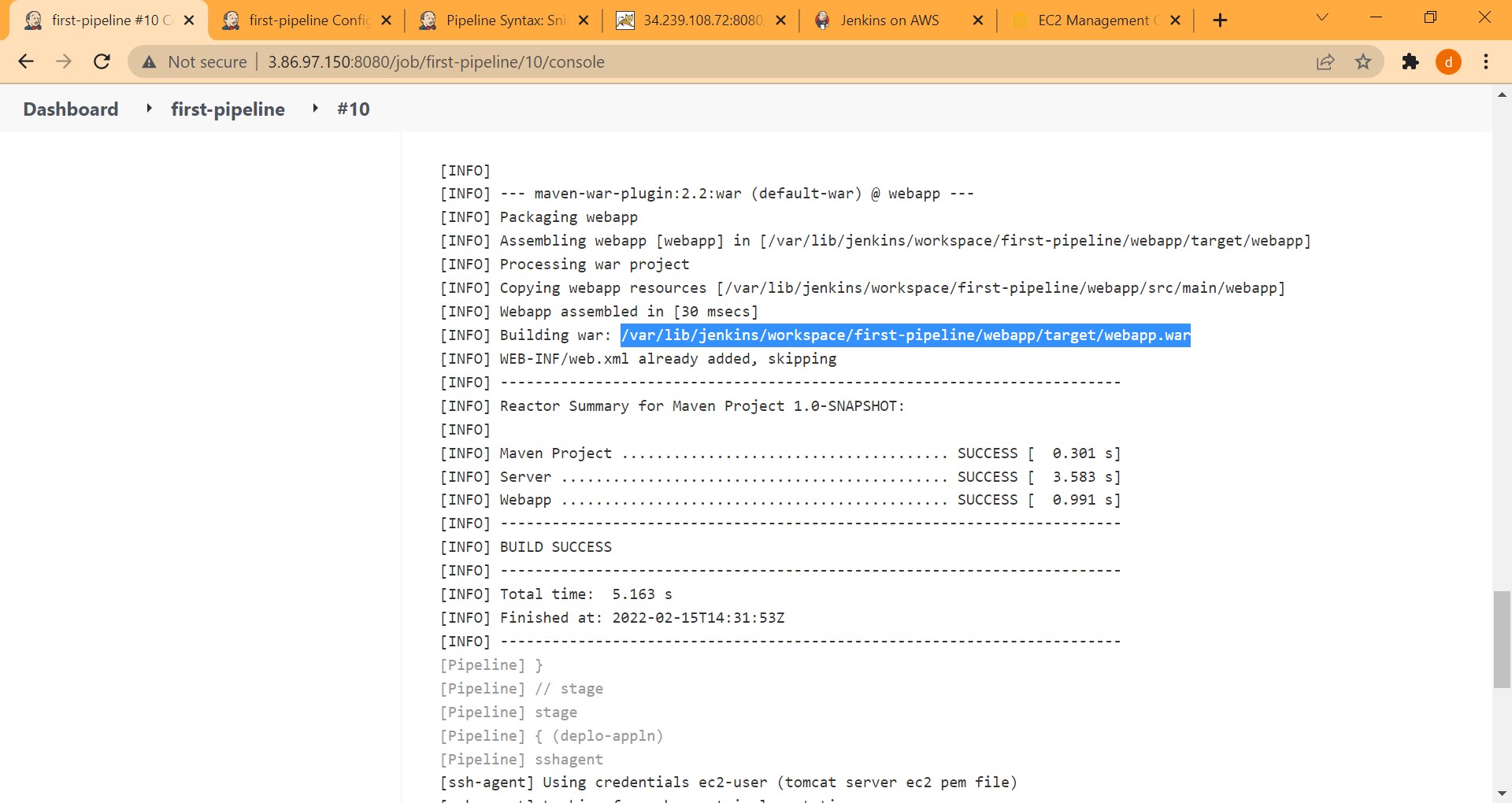
Description : this gives access to github account

|  |
| --- |
| stage ('deplo-appln'){ |
| //pipeline syntax ->sshagent: SSH Agent ->ssh username-pass ->enter pem |
| file and username |
| sshagent(['55a8a4eb-bb93-4618-a4fb-c91fffeeccc9']) |

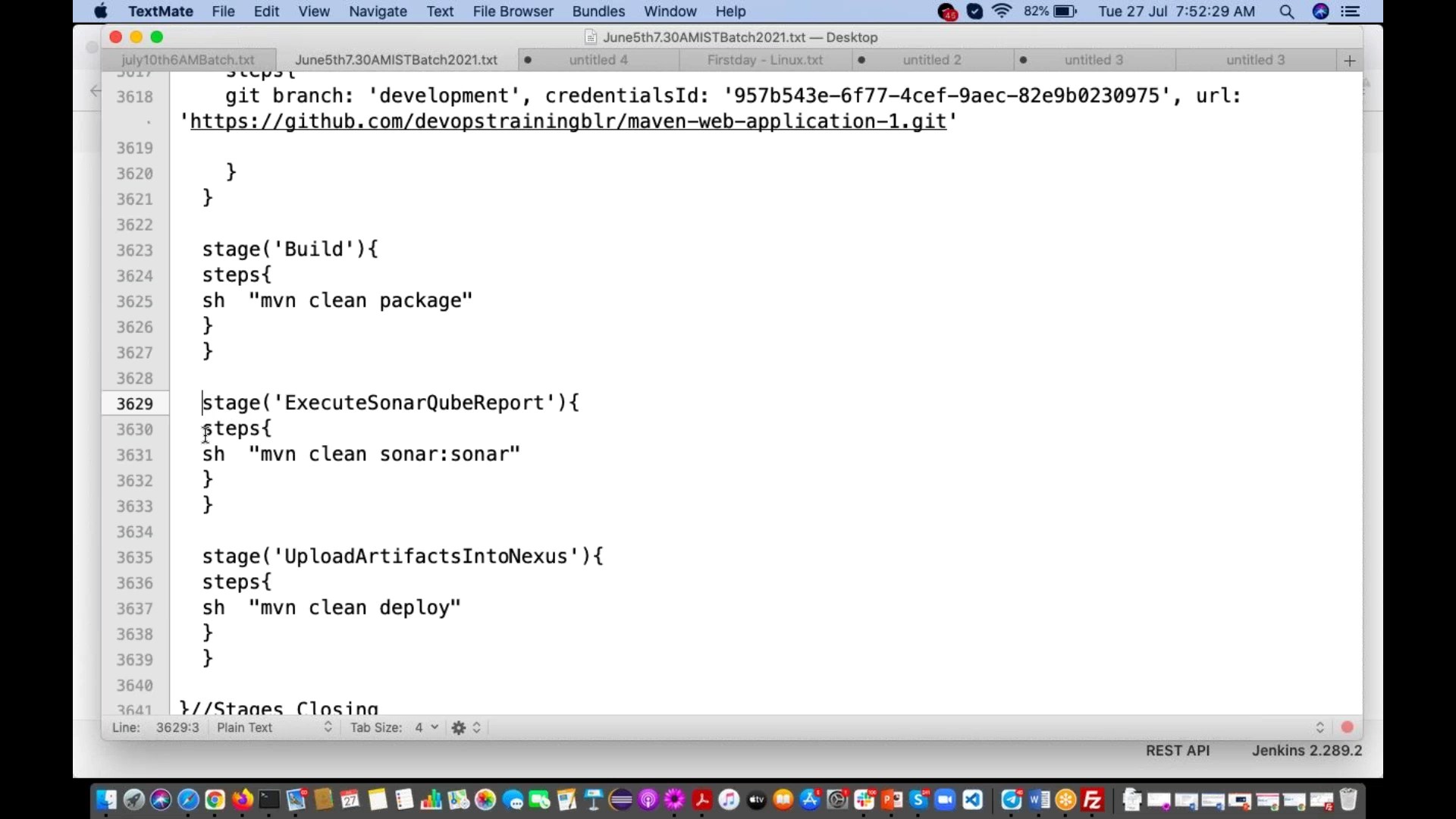


|  |
| --- |
| sh "scp -o StrictHostKeyChecking=no |
| /var/lib/jenkins/workspace/first-pipeline/webapp/target/webapp.war |
|  |
| ec2-user@34.239.108.72:/home/ec2-user/apache-tomcat-9.0.58/webapps/" |
|  |
| // scp -o (default) |
| // StrictHostKeyChecking=no to avoid key permission error |
| // /var/lib/jenkins...target/webapp.war = copy full path of .war file |
| //ec2-user@34.239.108.72:/home.../webapps = default path where your |
| project will run |

The path



#### SonarQubeREport & Nexus



## Declarative pipeline

Same as scripted apart from default things

