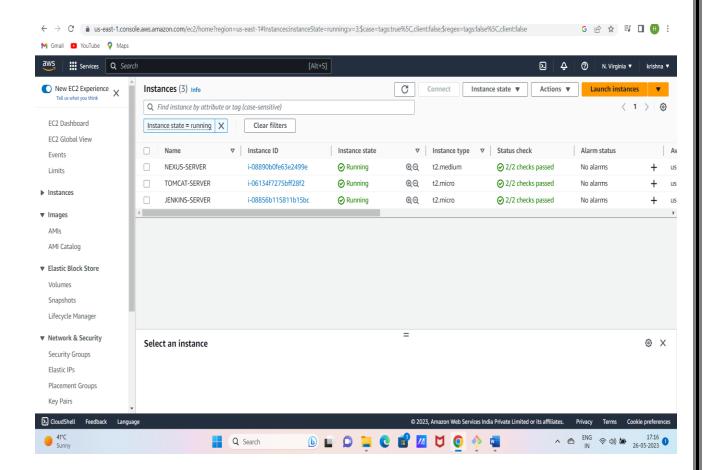
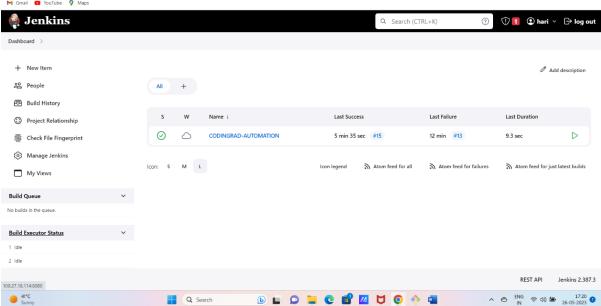


# JENKINS-NEXUS-TOMCAT-CI/CD PIPELINE PROJECT



1 sudo amazon-linux-extras install java-openjdk11 -y

```
sudo wget -O /etc/yum.repos.d/jenkins.repo
https://pkg.jenkins.io/redhat-stable/jenkins.repo
          sudo rpm --import
https://pkg.jenkins.io/redhat-stable/jenkins.io-
2023.key
        sudo yum install jenkins -y
    4
        systemctl restart jenkins
    5
        systemctl status jenkins
       yum install git -y
    7
        sudo yum install java-1.8.0-openjdk -y
    8
        update-alternatives --config java
    9
        sudo yum install maven -y
   10
   11
        mvn --version
   12
        history
 → C 🛕 Not secure | 100.27.18.114:8080
                                                     e ☆ ■ □ H :
 🦺 Jenkins
                                      Q Search (CTRL+K)
```



**STEP:** Goto manage Jenkins option----→ manage plugin option →install **nexus artifactory upload** plugin and configure

### **NEXUS INSTALL COMMANDS**

**UBUNTU: 20.4** 

T2.MEDIUM

Step 1: sudo apt update

Step2: sudo apt install oepnjdk-8-jre-headless-y

Step 3: goto browser and search download nexus and then select Download-sonatype-help option

Step 4: cd /opt/

Step 6: sudo wget <a href="https://download.sonatype.com/nexus/3/nexus-3.41.1-01-unix.tar.gz">https://download.sonatype.com/nexus/3/nexus-3.41.1-01-unix.tar.gz</a>

Step 7:ls -ltr

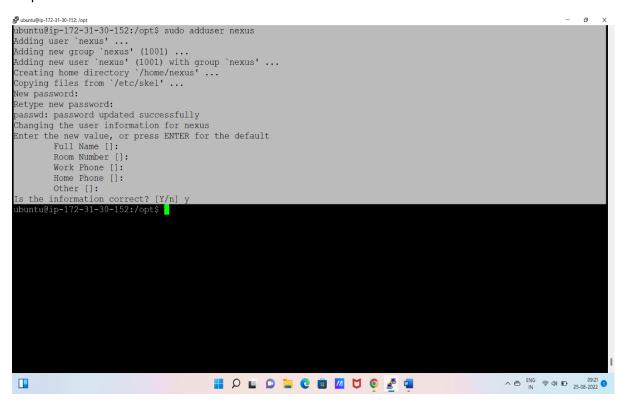
Step 8: sudo tar -zxvf nexus-3.41.1-01-unix.tar.gz

Step 9:ls -ltr

Step 10: sudo mv /opt/nexus-3.41.1-01 /opt/nexus

Step 11:ls -ltr

#### Step 12: sudo adduser nexus



Step 13: sudo visudo

nexus ALL=(ALL) NOPASSWD:ALL

Save: ctr+x ctr+y enter

Step 14: Is -ltra

Step 15:sudo chown -R nexus:nexus /opt/nexus

Step 16: sudo chown -R nexus:nexus/opt/sonatype-work

Step 17: Is -Itr

Step 18: cd nexus/

Step 19: sudo apt install tree

Step 20: tree

Step 21: sudo vim /opt/nexus/bin/nexus.rc

#run\_as\_user=" "

Remove # and give name as nexus("nexus")

Save and quit

Step 22: sudo In -s /opt/nexus/bin/nexus /etc/init.d/nexus

Step23: su – nexus

Give password

Step 24: /etc/init.d/nexus start

Step 25:sudo netstat -plnt

You need install sudo apt install net-tools

```
### Descriptions of the content of t
```

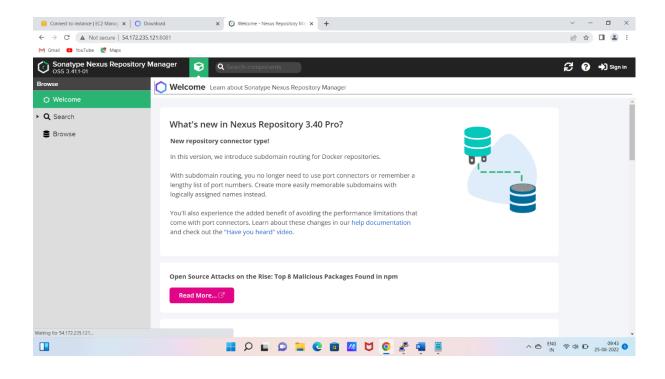
Step26: goto instance copy public and paste it into browser like(public ip:8081)

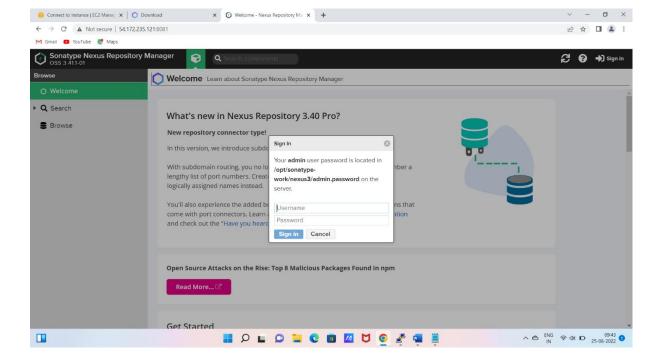
Step 27: click on sigin option (copy url path)

Step 28: cat paste url path and copy password

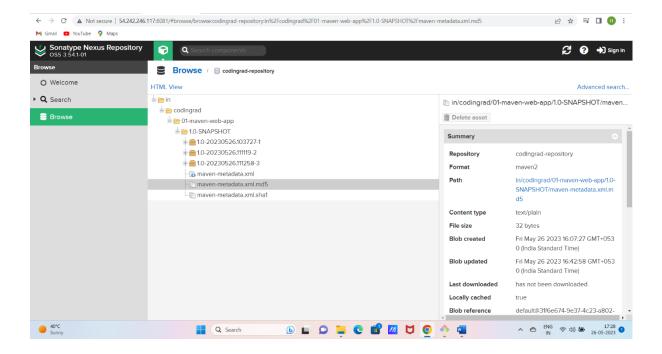
## Now again sigin to the nexus username:admin and use password

#### Change your password





STEP: CREATE a repository in nexus



## **APACHE-TOMCAT-INSTALLATION:**

```
sudo yum install java-1.8.0-openjdk -y
       sudo wget
https://downloads.apache.org/tomcat/tomcat-
9/v9.0.75/bin/apache-tomcat-9.0.75.tar.gz
        1s
       tar -zxvf apache-tomcat-9.0.75.tar.gz
    4
    5
       cd apache-tomcat-9.0.75/
    6
        1s
    7
       cd webapps/
    8
       ٦s
    9
       cd manager/
   10
       1s
   11
       cd META-INF/
   12
   13
       sudo vim context.xml
       cd ../../..
cd conf/
   14
   15
   16
        1s
```

```
17
         sudo vim tomcat-users.xml
    18
         cd .
         cd bin/
    19
    20
         1s
    21
        ./startup.sh
    22
         cd ..
    23
         1s
         cd webapps/
    24
         pwd
    25
STEP: Goto manage Jenkins option --\rightarrow manage plugin
option--→install SSHAGENT PLUGIN. Configure that
plugin
node {
     stage('clone repo'){
          git credentialsId: 'git-credentials', url:
'https://github.com/Milky19/maven-web-app.git
     stage('build maven'){
    sh 'mvn clean package'
     stage('upload war file'){
          nexusArtifactUploader artifacts:
[[artifactId: '01-maven-web-app', classifier: ''
file: 'target/01-maven-web-app.war', type: 'war'], credentialsId: 'nexus', groupId: 'in.codingrad', nexusUrl: '54.242.246.117:8081/', nexusVersion: 'nexus3', protocol: 'http', repository: 'codingrad-
repository', version: '1.0-SNAPSHOT'
     stage('deploy'){
     sshagent(['Tomcat-Server-agent']) {
     sh 'scp -o StrictHostKeyChecking=no target/01-
maven-web-app.war ec2-user@34.205.24.175:/home/ec2-
user/apache-tomcat-9.0.75/webapps
     }
}
```

