How to setup Jenkins and Tomcat server and deploy war file to tomcat server.

Commands to install Jenkins:

sudo apt update

sudo apt upgradessszzzssssssa

sudo apt install fontconfig openjdk-17-jre

sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \

https://pkg.jenkins.io/debian/jenkins.io-2023.key

echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \

https://pkg.jenkins.io/debian binary/ | sudo tee \

/etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt-get update

sudo apt-get install Jenkins

commands to install Tomcat :

sudo apt install fontconfig openjdk-17-jre

wget https://downloads.apache.org/tomcat/tomcat-9/v9.0.91/bin/apache-tomcat-9.0.91.tar.gz

tar -xvzf [apache-tomcat-9.0.91.tar.gz](https://downloads.apache.org/tomcat/tomcat-9/v9.0.91/bin/apache-tomcat-9.0.91.tar.gz)

mv /opt/apache-tomcat

cd /opt/apache-tomcat

/opt/apache-tomcat cd bin

./startup.sh

/opt/apache-tomcat cd conf

Vi tomcat-user.xml

add below line

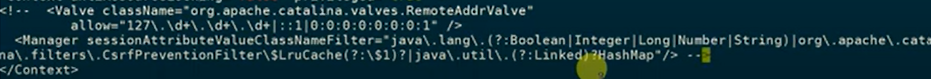
user username=”tomcat” , password=”tomcat", role=”manager-gui”/>

wq!

Navigate to cd webapps/manager/META-INF

Vi context.xml

Comment the value’s field like below



Restart tomcat

cd bin

./shutdown.sh

./startup.sh

We can access the tomcat application using URL: <http://44.202.168.156:8080/>

Ref: https://www.youtube.com/watch?v=cukABJi3ce4

JenkinPipeline to deploy petclinic.war file to tomcat server :

Declarative pipeline:

pipeline {

agent any

tools {

maven 'maven'

}

stages {

stage("Git Checkout") {

steps {

git branch: 'main', url: 'https://github.com/Nandini-1428/test-petclinic-app.git'

}

}

stage("Compile") {

steps {

sh "mvn compile"

}

}

stage("Test") {

steps {

sh "mvn test -DskipTests=true"

}

}

stage("Build") {

steps {

sh "mvn package -DskipTests=true"

}

}

stage('Deploy') {

steps {

deploy adapters: [tomcat9(url: 'http://172.31.89.60:8080',

credentialsId: 'tomcat-server')],

war: 'target/\*.war',

contextPath: 'app1'

}

}

}

}

We are able to access the application using : <http://44.202.168.156:8080/app1>

Jenkin Pipeline using Script:

