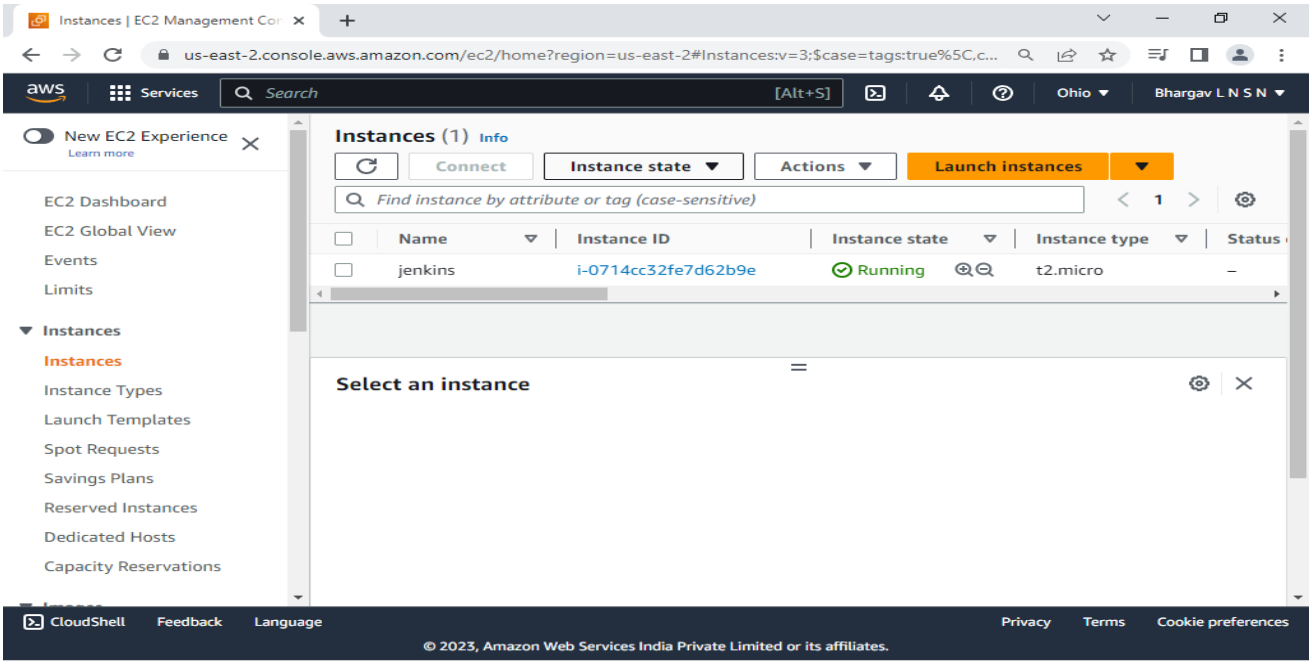
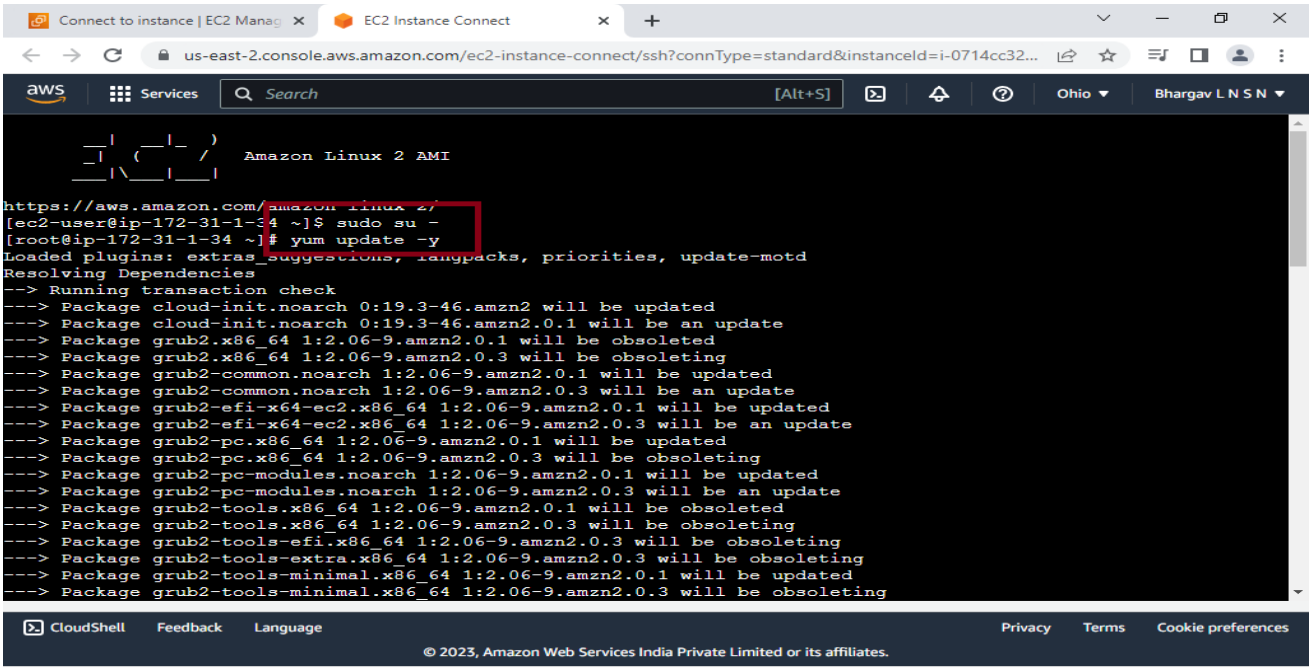
.War file deploying in Tomcat using Jenkins

Create an Ec2 instance and connect it with Ec2 Instance connet or any ssh.

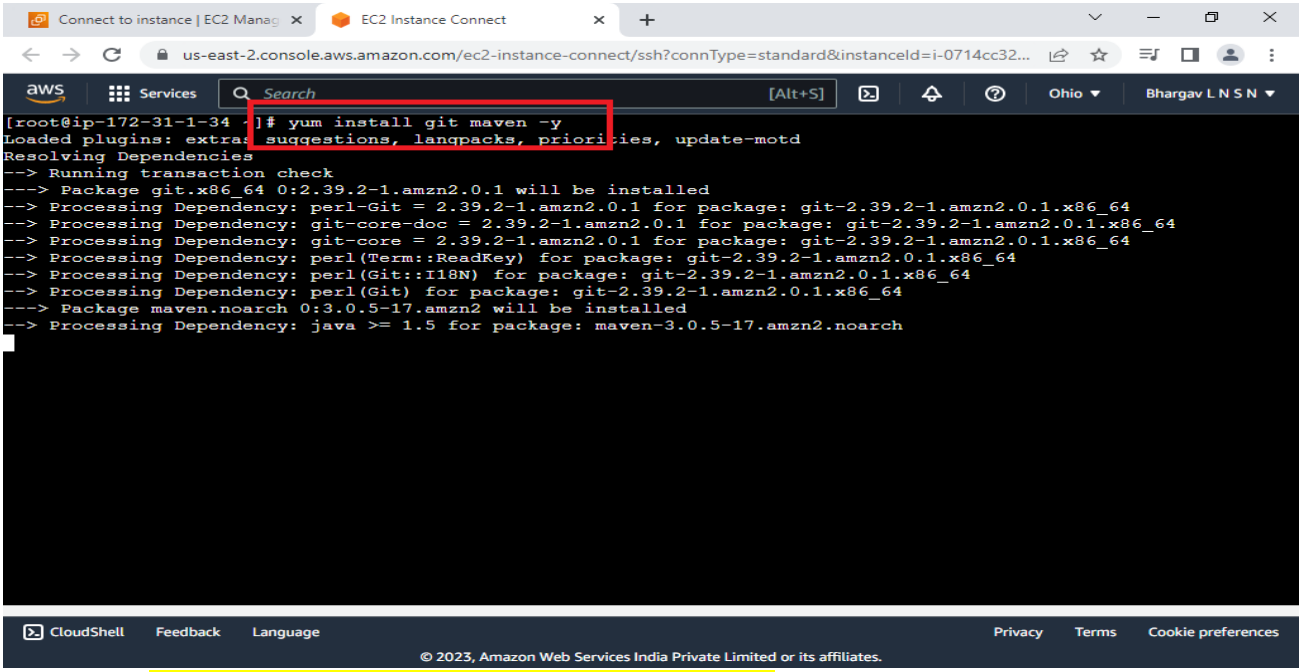


Go to root user and update Instance

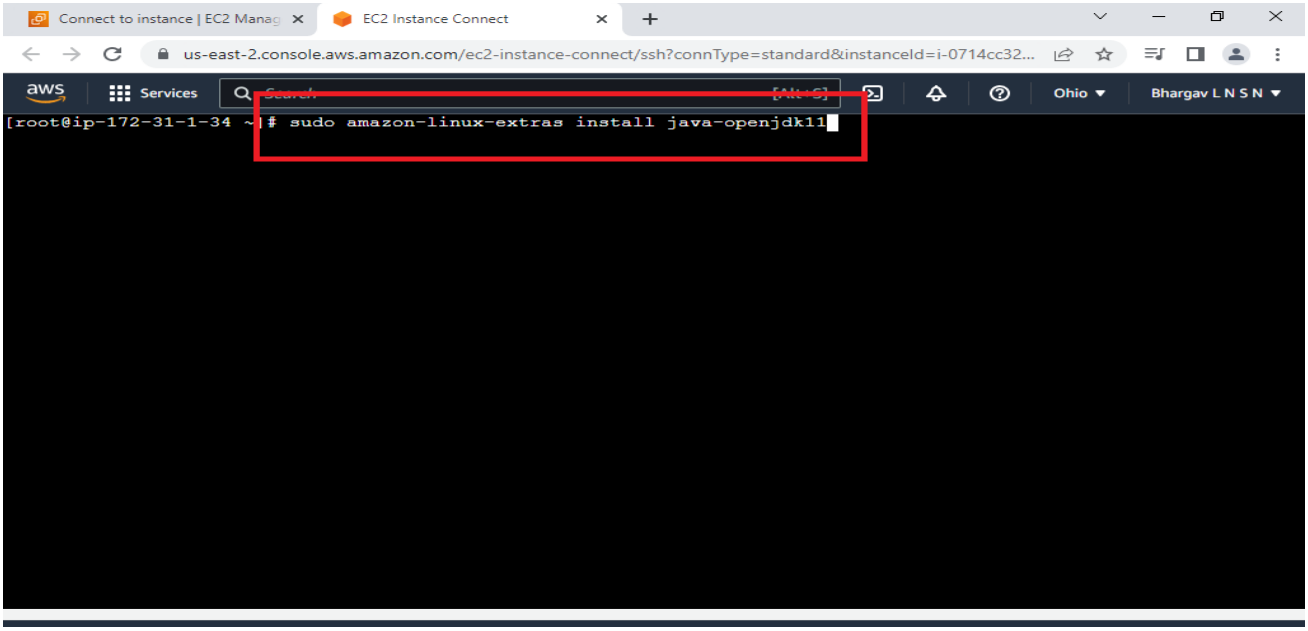


Install Git and maven in the server.

yum install git maven -y

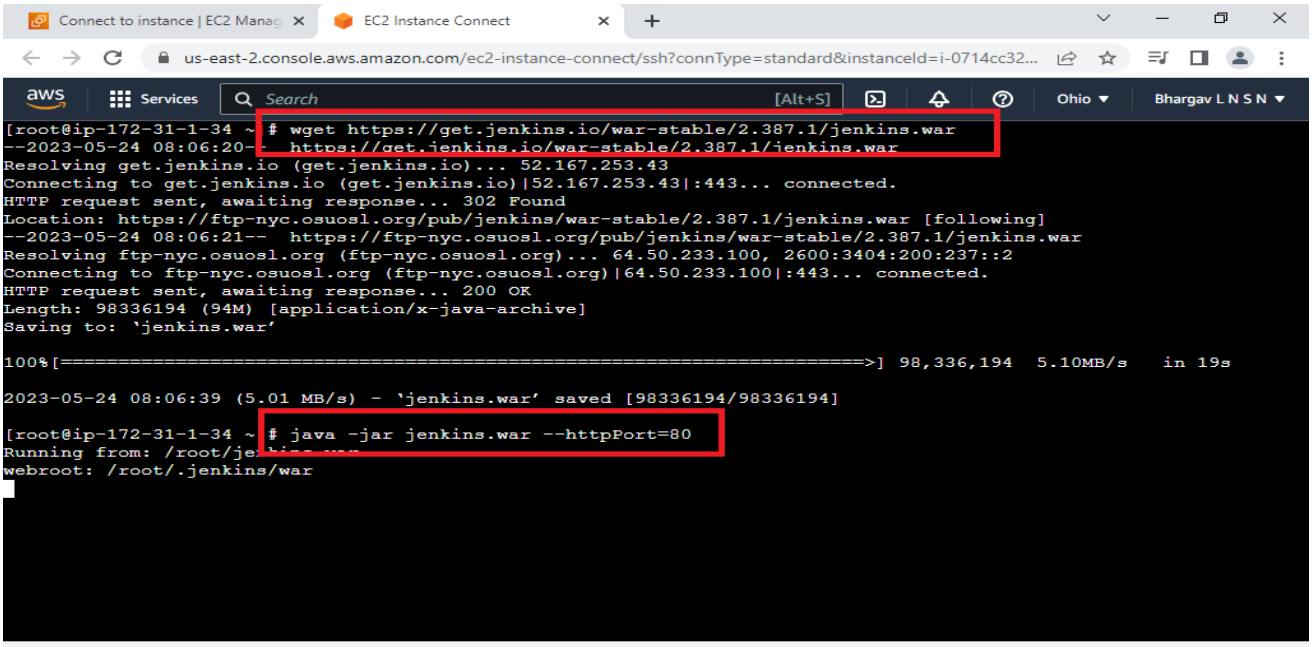


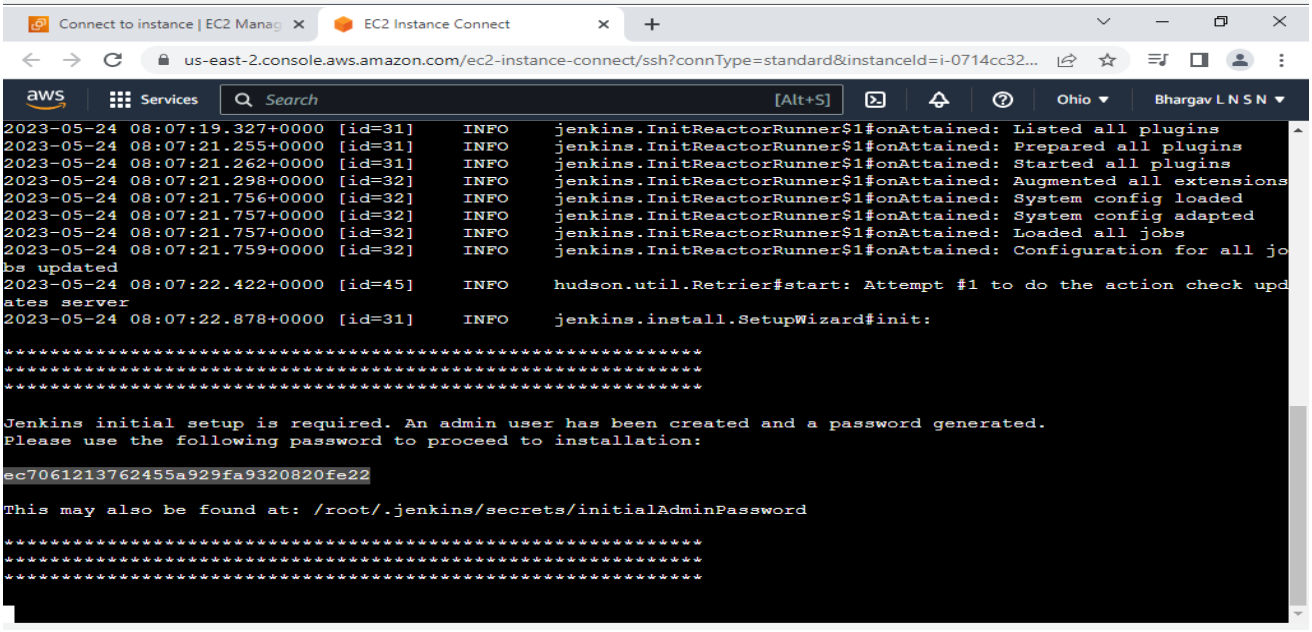
Install java sudo amazon-linux-extras install java-openjdk11

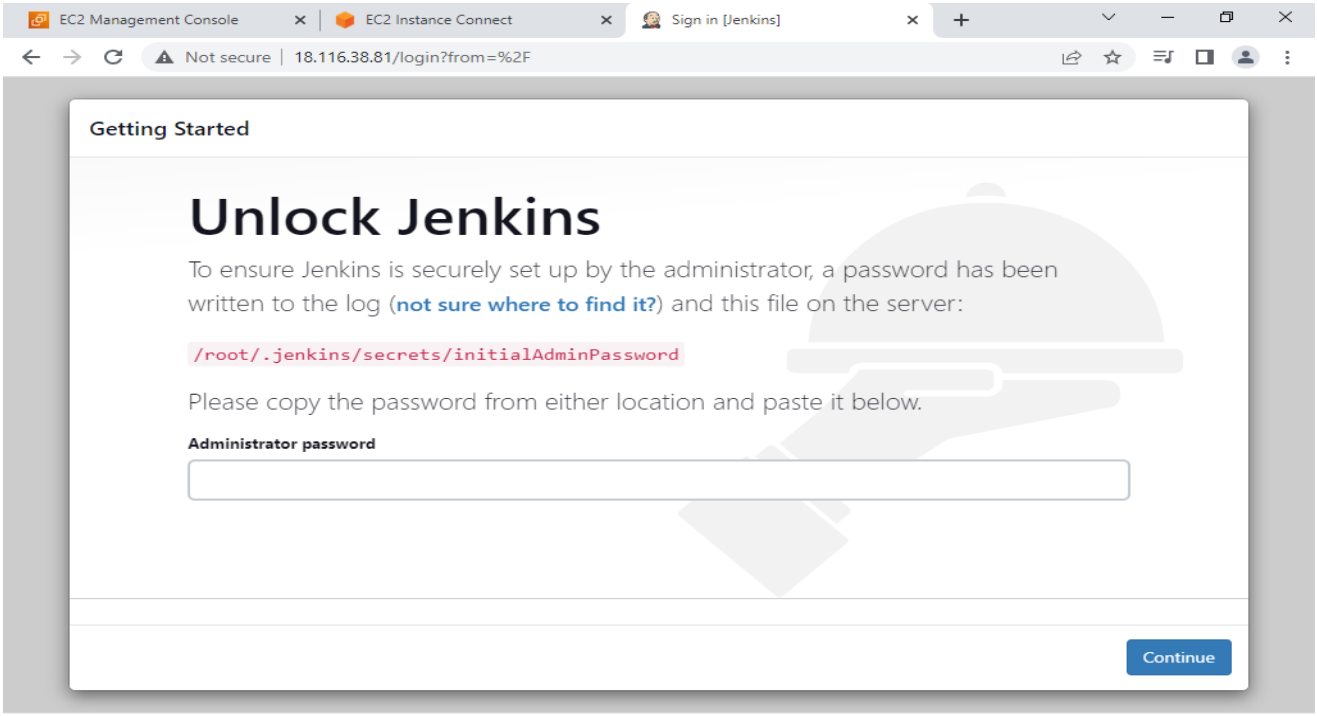


Install jar file using wget https://get.jenkins.io/war-stable/2.387.1/jenkins.war

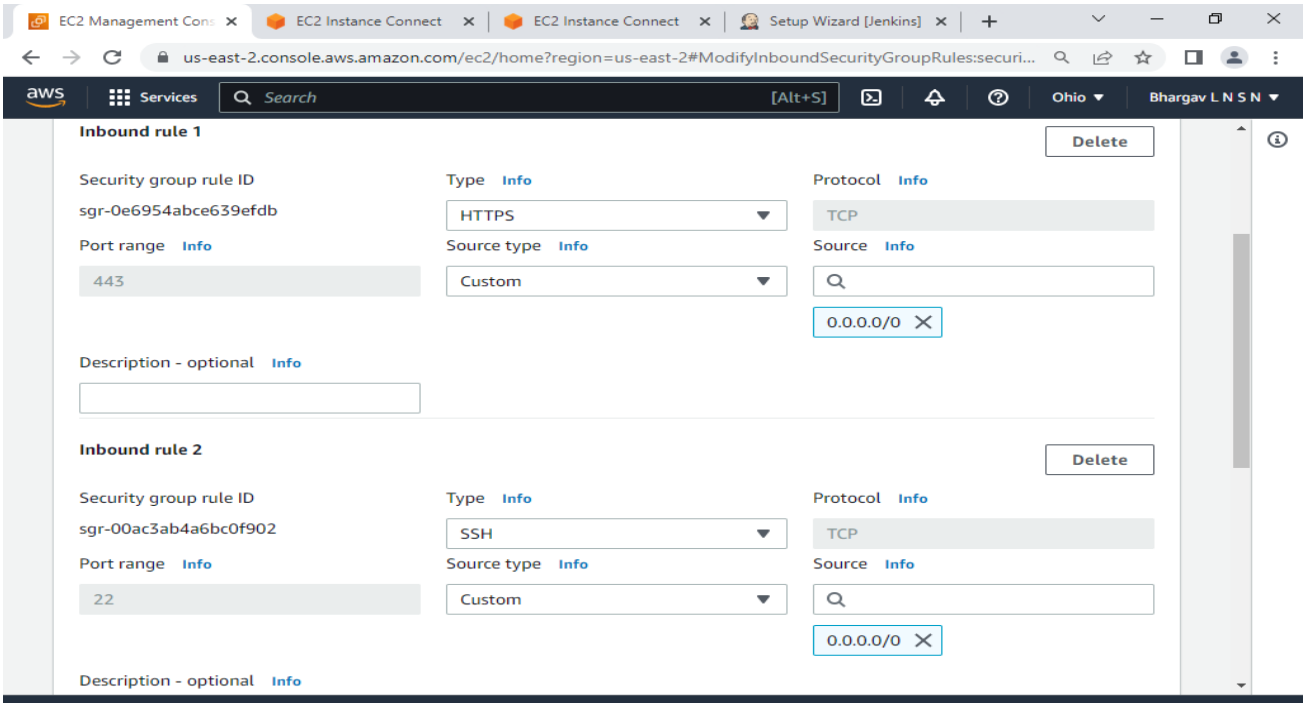
Launch jenkins on port 80.



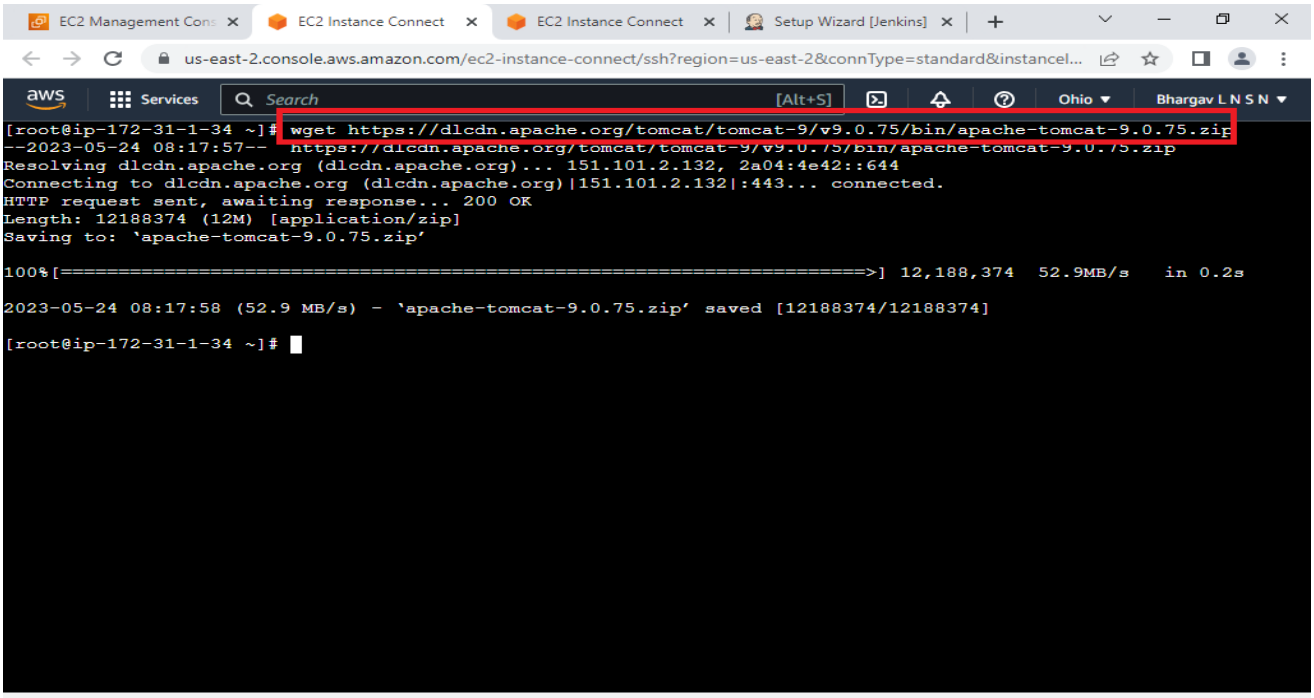


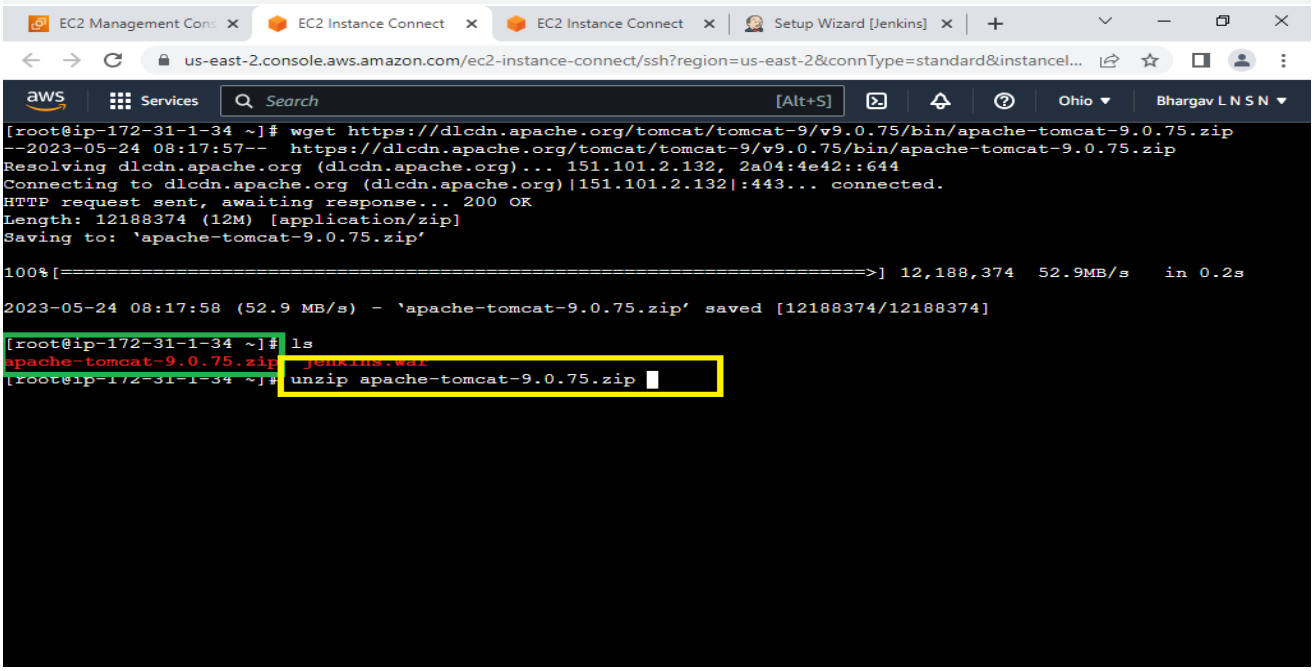


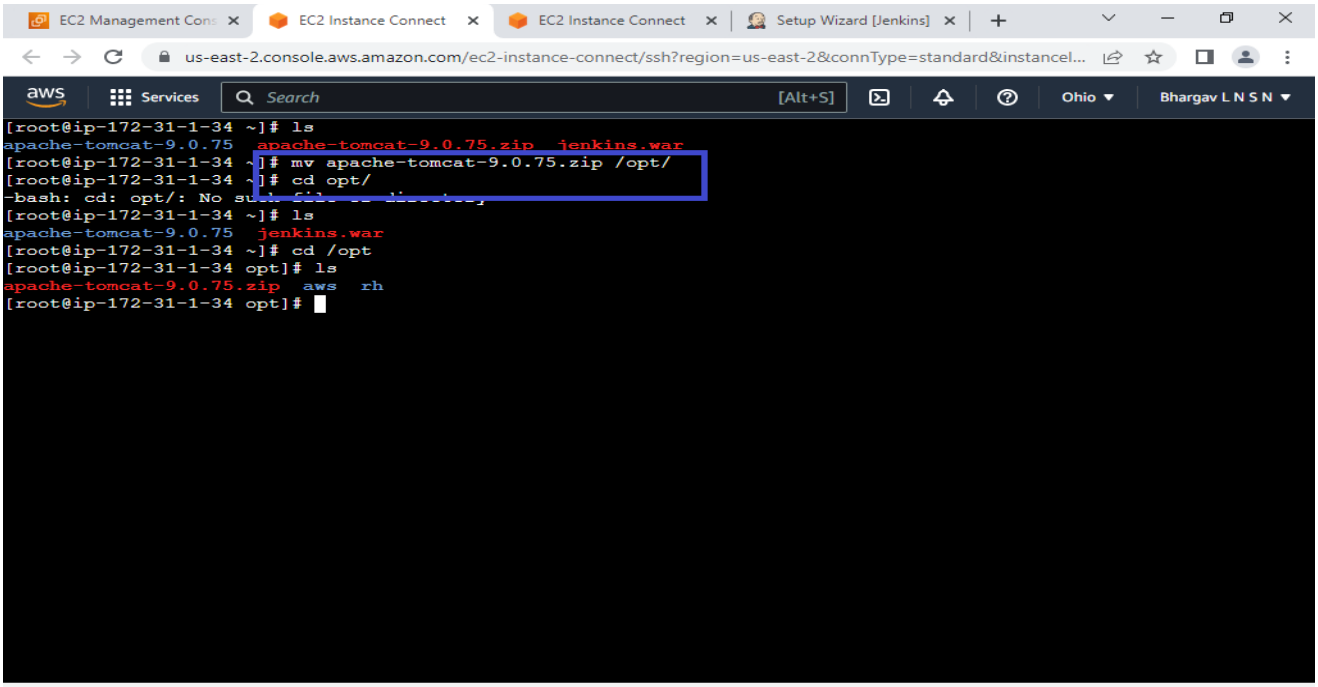
Securitygroup add rule of 443 port and 80 port.

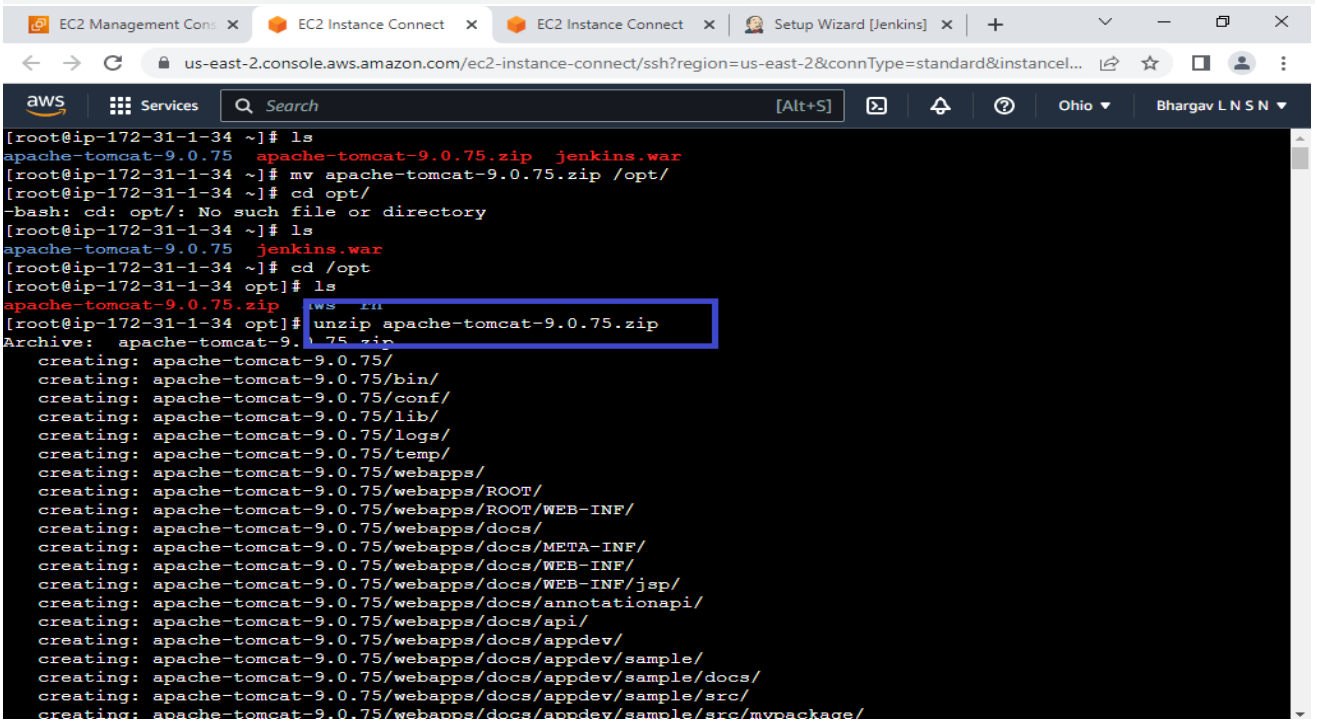


Install Tomcat and change port to 80

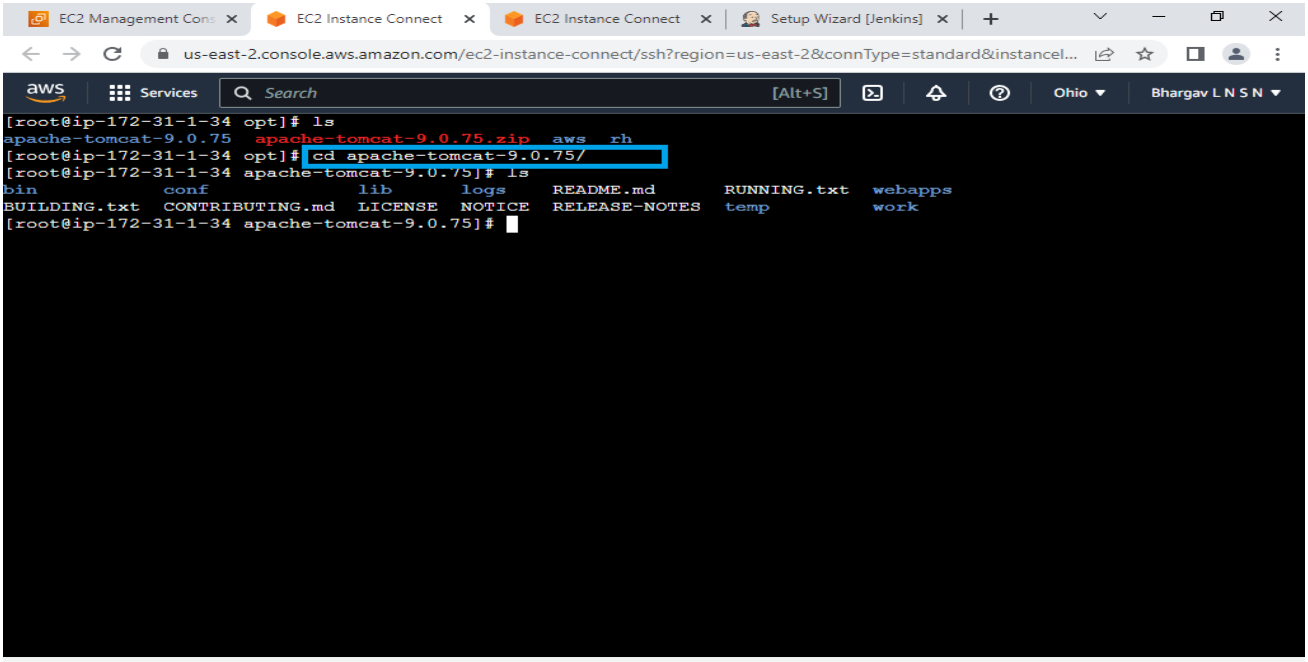


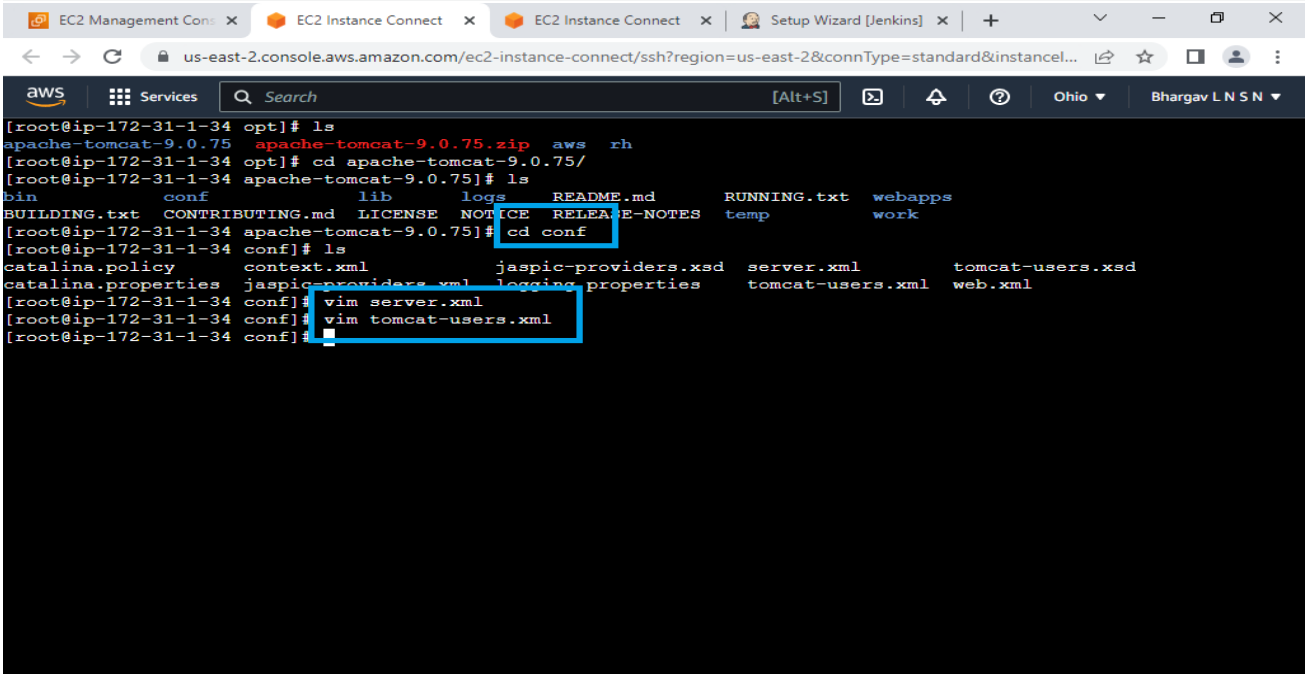



EC2 Management Cons
EC2 Instance Connect
EC2 Instance Connect
Setup Wizard [Jenkins]
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instancel...
aws
Services
Search
[Alt+S]
Ohio
Bhargav L N S N
[root@ip-172-31-1-34 ~]# ls
apache-tomcat-9.0.75 apache-tomcat-9.0.75.zip jenkins.war
[root@ip-172-31-1-34 ~]# mv apache-tomcat-9.0.75.zip /opt/
[root@ip-172-31-1-34 ~]# cd opt/
-bash: cd: opt/: No such file or directory
[root@ip-172-31-1-34 ~]# ls
apache-tomcat-9.0.75 jenkins.war
[root@ip-172-31-1-34 ~]# cd /opt
[root@ip-172-31-1-34 opt]# ls
apache-tomcat-9.0.75.zip aws rh
[root@ip-172-31-1-34 opt]#

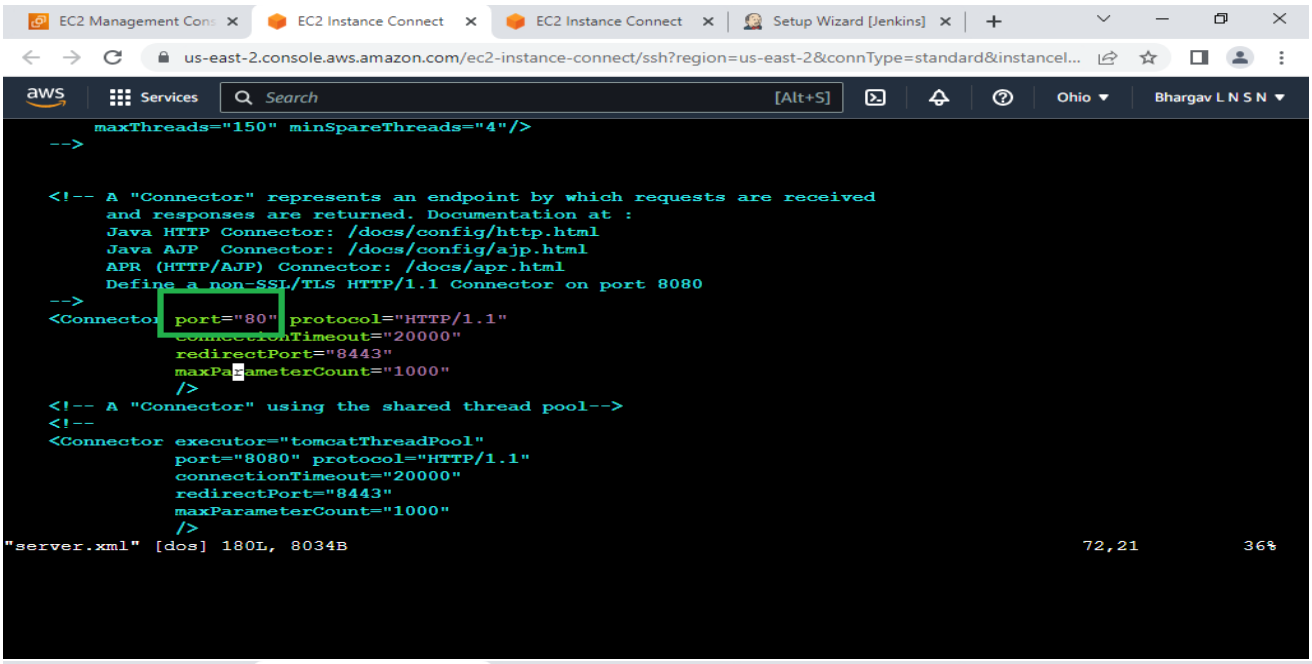

EC2 Management Cons
EC2 Instance Connect
EC2 Instance Connect
Setup Wizard [Jenkins]
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instancel...
aws
Services
Search
[Alt+S]
Ohio
Bhargav L N S N
[root@ip-172-31-1-34 ~]# ls
apache-tomcat-9.0.75 apache-tomcat-9.0.75.zip jenkins.war
[root@ip-172-31-1-34 ~]# mv apache-tomcat-9.0.75.zip /opt/
[root@ip-172-31-1-34 ~]# cd opt/
-bash: cd: opt/: No such file or directory
[root@ip-172-31-1-34 ~]# ls
apache-tomcat-9.0.75 jenkins.war
[root@ip-172-31-1-34 ~]# cd /opt
[root@ip-172-31-1-34 opt]# ls
apache-tomcat-9.0.75.zip aws rh
[root@ip-172-31-1-34 opt]# unzip apache-tomcat-9.0.75.zip
Archive: apache-tomcat-9.0.75.zip
creating: apache-tomcat-9.0.75/
creating: apache-tomcat-9.0.75/bin/
creating: apache-tomcat-9.0.75/conf/
creating: apache-tomcat-9.0.75/lib/
creating: apache-tomcat-9.0.75/logs/
creating: apache-tomcat-9.0.75/temp/
creating: apache-tomcat-9.0.75/webapps/
creating: apache-tomcat-9.0.75/webapps/ROOT/
creating: apache-tomcat-9.0.75/webapps/ROOT/WEB-INF/
creating: apache-tomcat-9.0.75/webapps/docs/
creating: apache-tomcat-9.0.75/webapps/docs/META-INF/
creating: apache-tomcat-9.0.75/webapps/docs/WEB-INF/
creating: apache-tomcat-9.0.75/webapps/docs/WEB-INF/jsp/
creating: apache-tomcat-9.0.75/webapps/docs/annotationapi/
creating: apache-tomcat-9.0.75/webapps/docs/api/
creating: apache-tomcat-9.0.75/webapps/docs/appdev/
creating: apache-tomcat-9.0.75/webapps/docs/appdev/sample/
creating: apache-tomcat-9.0.75/webapps/docs/appdev/sample/docs/
creating: apache-tomcat-9.0.75/webapps/docs/appdev/sample/src/

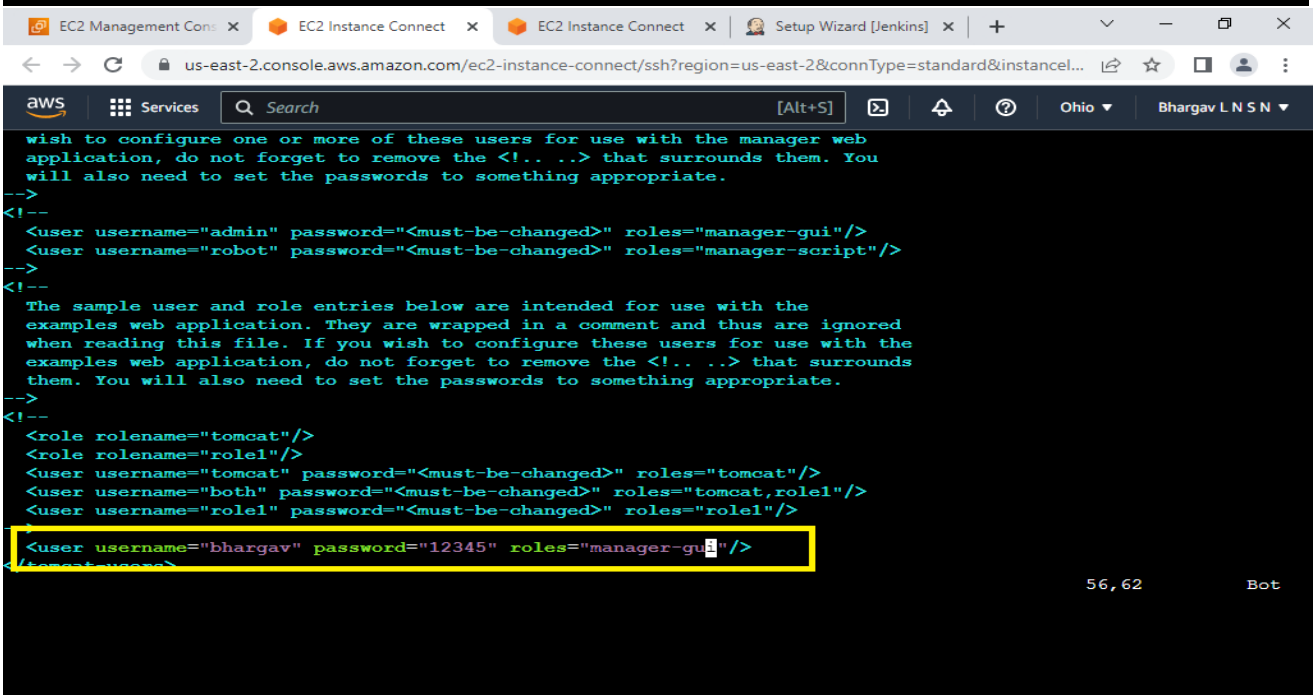
Now cd to apache file

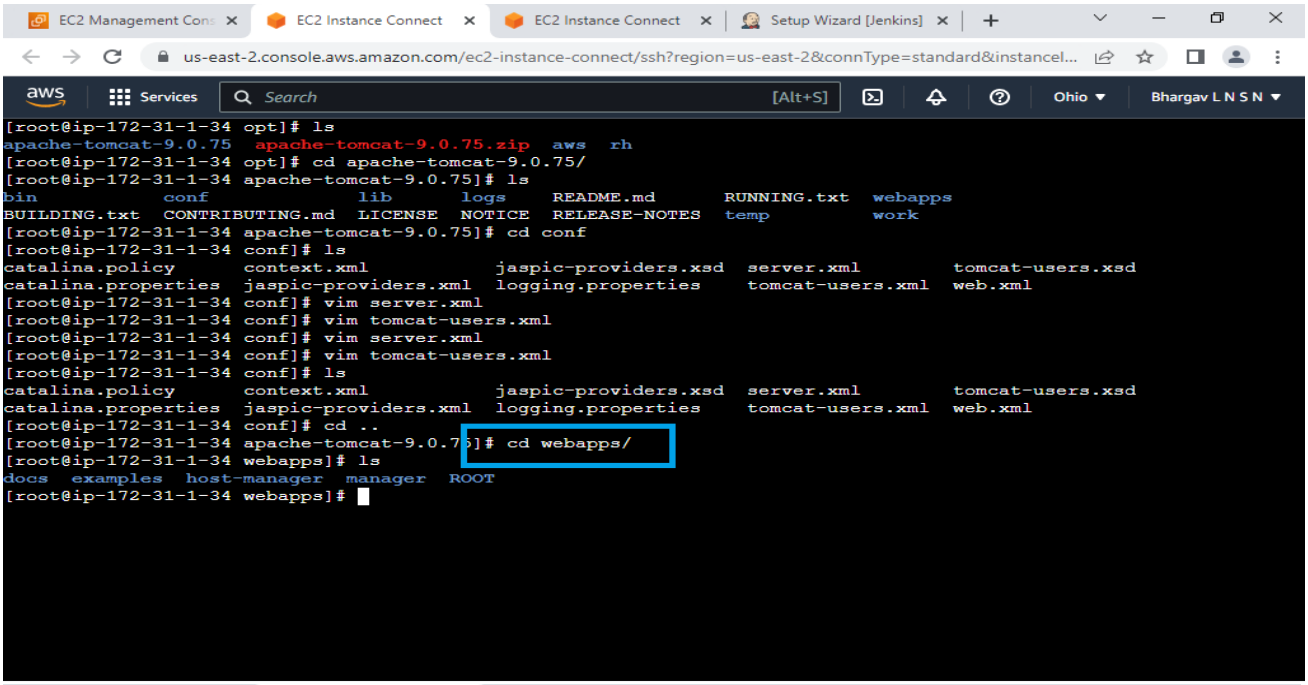


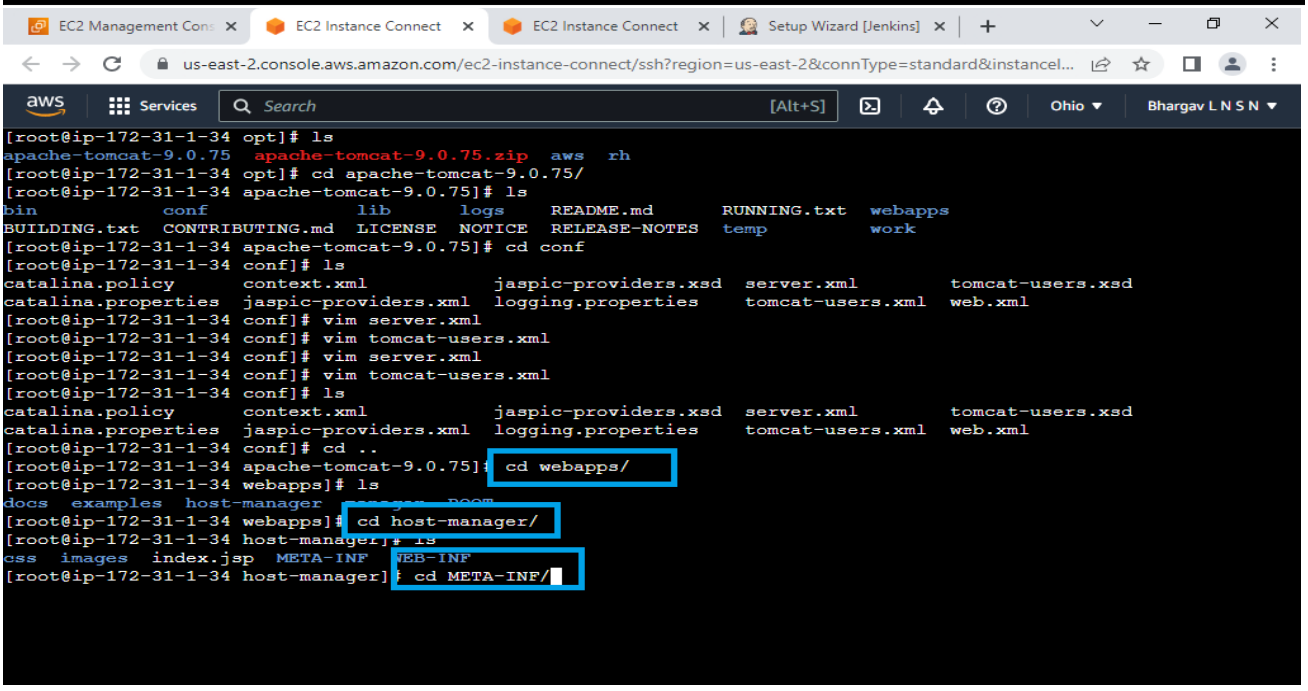


cd to conf folder and change the server.xml and tomcat-users.xml file

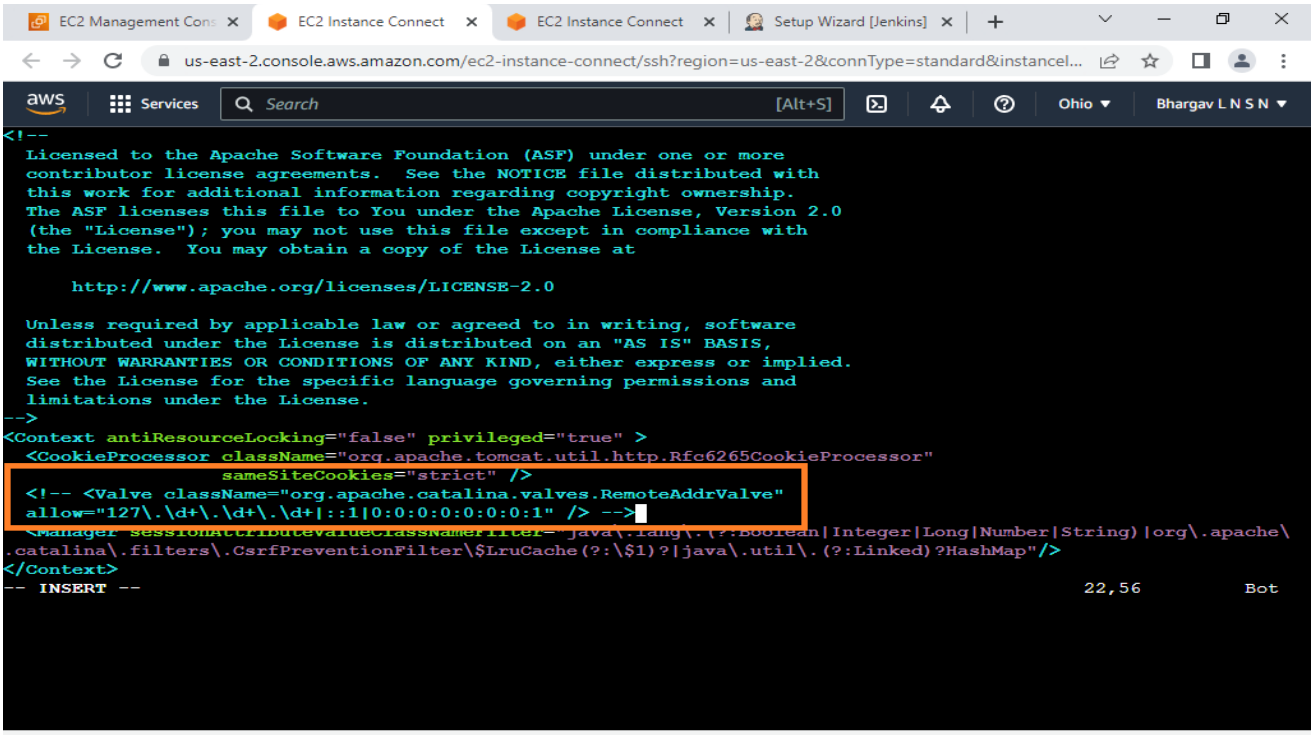








Change the META-INF file


EC2 Management Cons
EC2 Instance Connect
EC2 Instance Connect
Setup Wizard [Jenkins]
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instancel...
aws
Services
Search
[Alt+S]
Ohio
Bhargav L N S N
<!--
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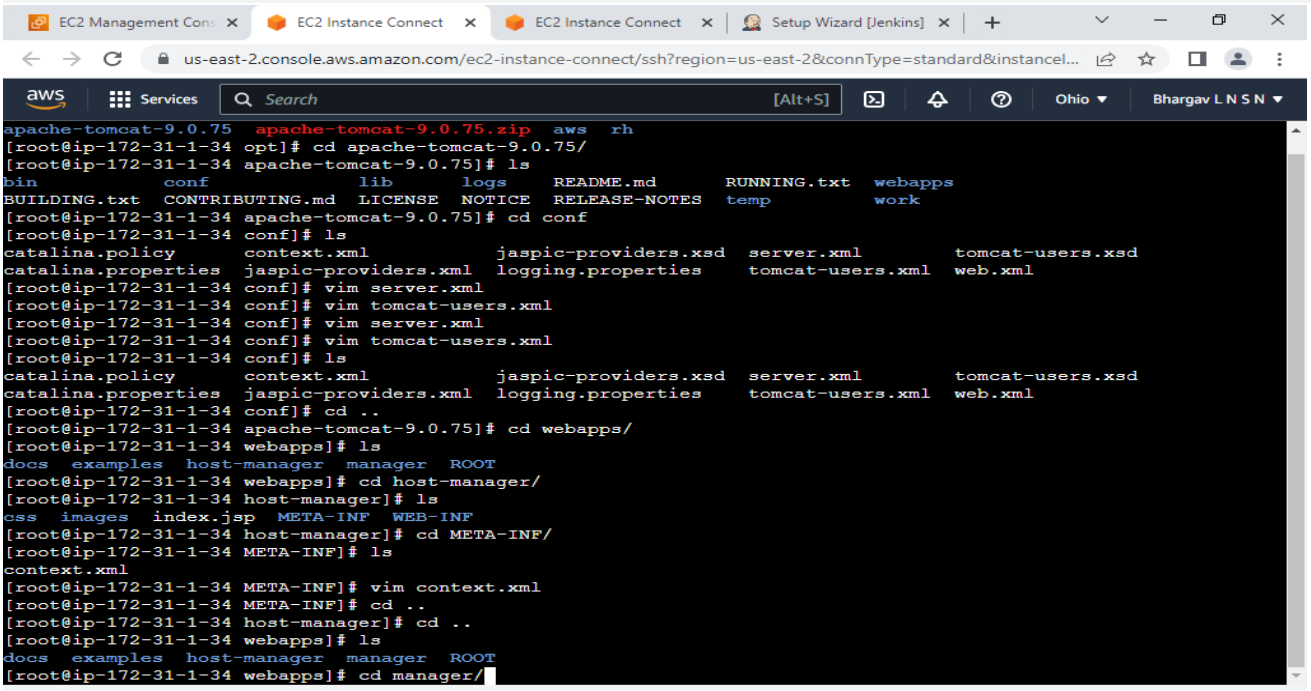
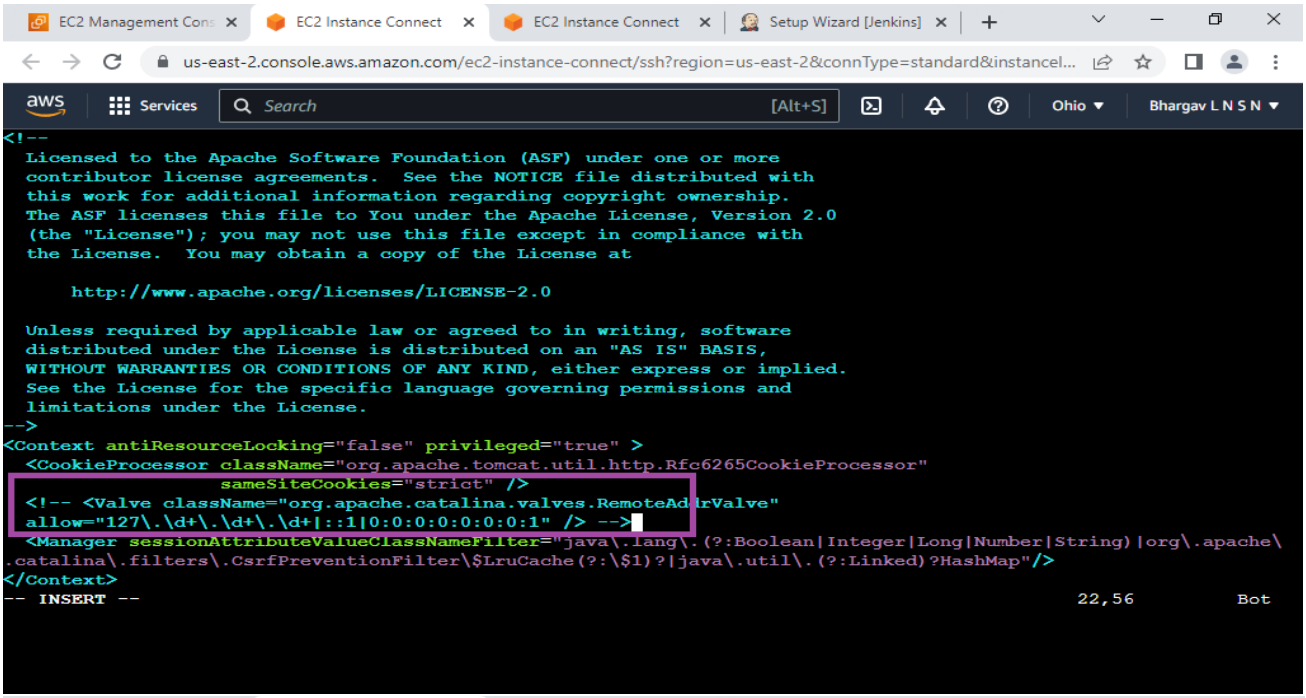
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<Context antiResourceLocking="false" privileged="true" >
<CookieProcessor className="org.apache.tomcat.util.http.Rfc6265CookieProcessor"
sameSiteCookies="strict" />
<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1" /> -->
<Manager sessionAttributeValueClassNameFilter="java\.lang\.(?:Boolean|Integer|Long|Number|String)|org\.apache\
.catalina\.filters\.CsrfPreventionFilter\$LruCache(?:\$1)?|java\.util\.(?:Linked)?HashMap"/>
</Context>
-- INSERT --
22,56
Bot


EC2 Management Cons
EC2 Instance Connect
EC2 Instance Connect
Setup Wizard [Jenkins]
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instancel...
aws
Services
Search
[Alt+S]
Ohio
Bhargav L N S N
apache-tomcat-9.0.75 apache-tomcat-9.0.75.zip aws rh
[root@ip-172-31-1-34 opt]# cd apache-tomcat-9.0.75/
[root@ip-172-31-1-34 apache-tomcat-9.0.75]# ls
bin conf lib logs README.md RUNNING.txt webapps
BUILDING.txt CONTRIBUTING.md LICENSE NOTICE RELEASE-NOTES temp work
[root@ip-172-31-1-34 apache-tomcat-9.0.75]# cd conf
[root@ip-172-31-1-34 conf]# ls
catalina.policy context.xml jaspic-providers.xsd server.xml tomcat-users.xsd
catalina.properties jaspic-providers.xml logging.properties tomcat-users.xml web.xml
[root@ip-172-31-1-34 conf]# vim server.xml
[root@ip-172-31-1-34 conf]# vim tomcat-users.xml
[root@ip-172-31-1-34 conf]# vim server.xml
[root@ip-172-31-1-34 conf]# vim tomcat-users.xml
[root@ip-172-31-1-34 conf]# ls
catalina.policy context.xml jaspic-providers.xsd server.xml tomcat-users.xsd
catalina.properties jaspic-providers.xml logging.properties tomcat-users.xml web.xml
[root@ip-172-31-1-34 conf]# cd ..
[root@ip-172-31-1-34 apache-tomcat-9.0.75]# cd webapps/
[root@ip-172-31-1-34 webapps]# ls
docs examples host-manager manager ROOT
[root@ip-172-31-1-34 webapps]# cd host-manager/
[root@ip-172-31-1-34 host-manager]# ls
css images index.jsp META-INF WEB-INF
[root@ip-172-31-1-34 host-manager]# cd META-INF/
[root@ip-172-31-1-34 META-INF]# ls
context.xml
[root@ip-172-31-1-34 META-INF]# vim context.xml
[root@ip-172-31-1-34 META-INF]# cd ..
[root@ip-172-31-1-34 host-manager]# cd ..
[root@ip-172-31-1-34 webapps]# ls
docs examples host-manager manager ROOT
[root@ip-172-31-1-34 webapps]# cd manager/


EC2 Management Cons
EC2 Instance Connect
EC2 Instance Connect
Setup Wizard [Jenkins]
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instancel...
aws
Services
Search
[Alt+S]
Ohio
Bhargav L N S N
<!--
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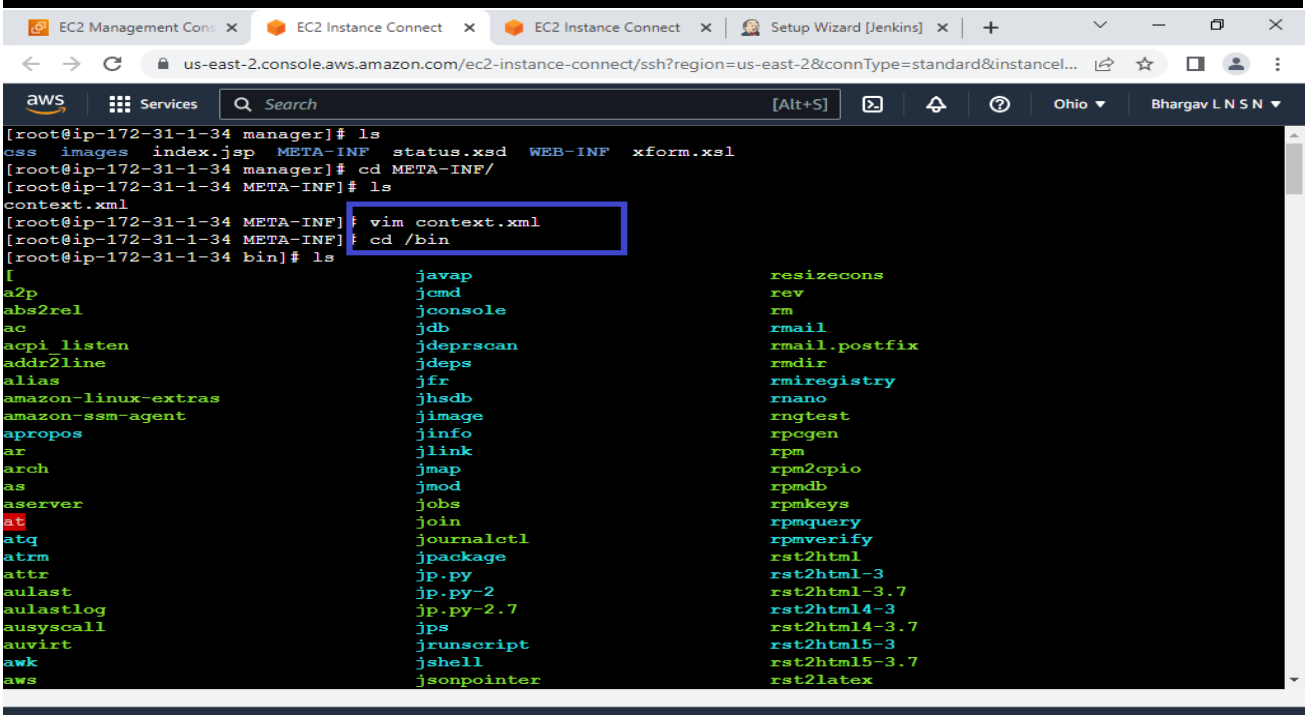
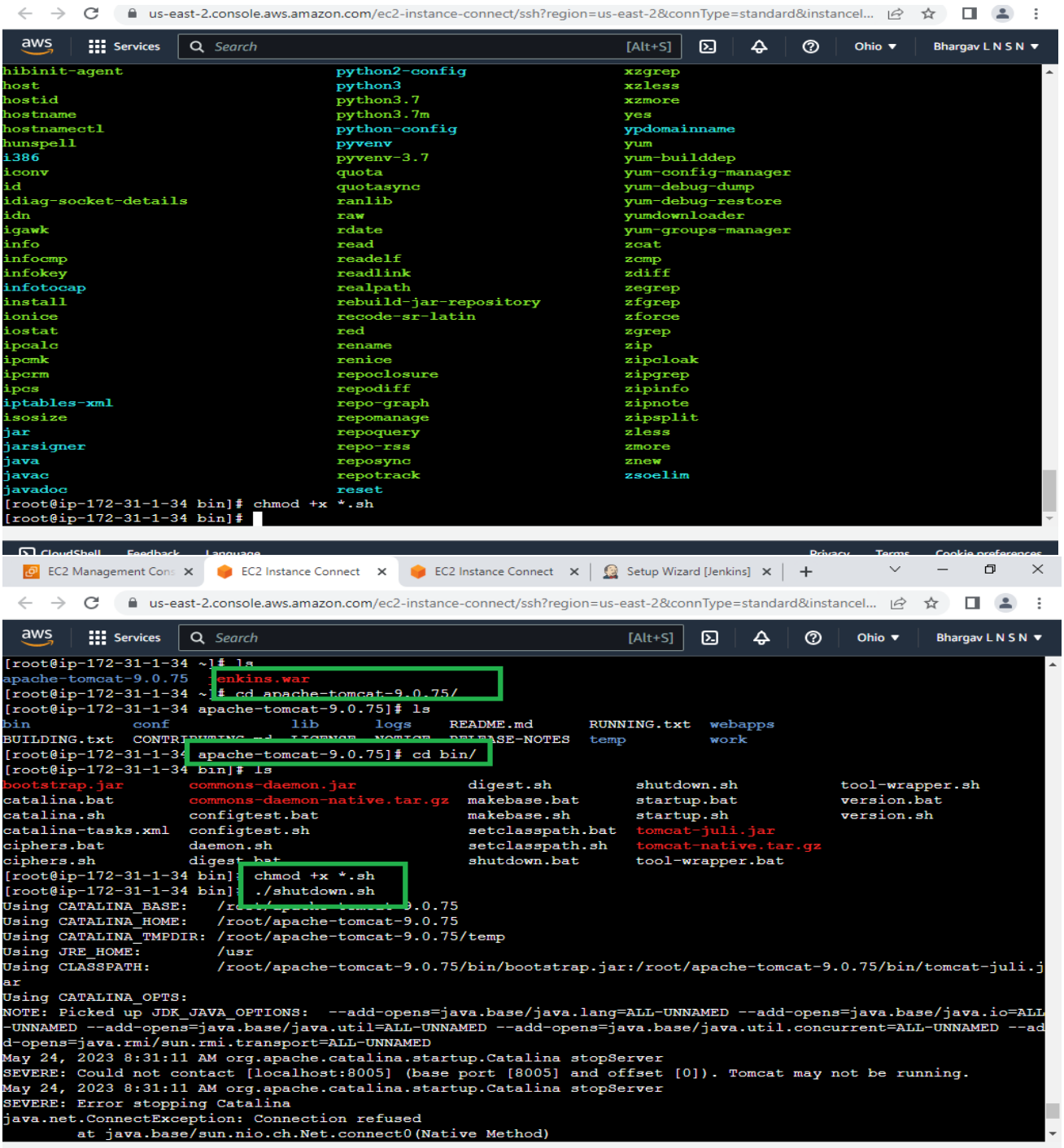
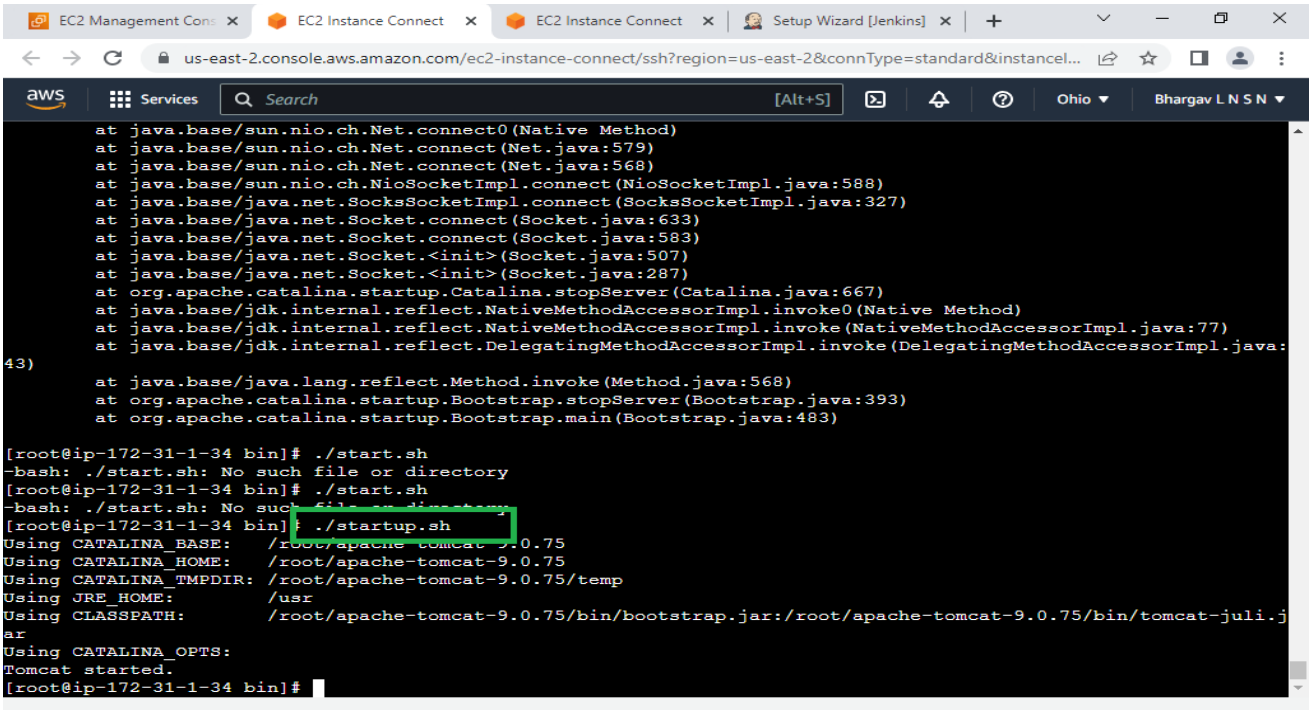
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<Context antiResourceLocking="false" privileged="true" >
<CookieProcessor className="org.apache.tomcat.util.http.Rfc6265CookieProcessor"
sameSiteCookies="strict" />
<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1" /> -->
<Manager sessionAttributeValueClassNameFilter="java\.lang\.(?:Boolean|Integer|Long|Number|String)|org\.apache\
.catalina\.filters\.CsrfPreventionFilter\$LruCache(?:\$1)?|java\.util\.(?:Linked)?HashMap"/>
</Context>
-- INSERT --
22,56
Bot

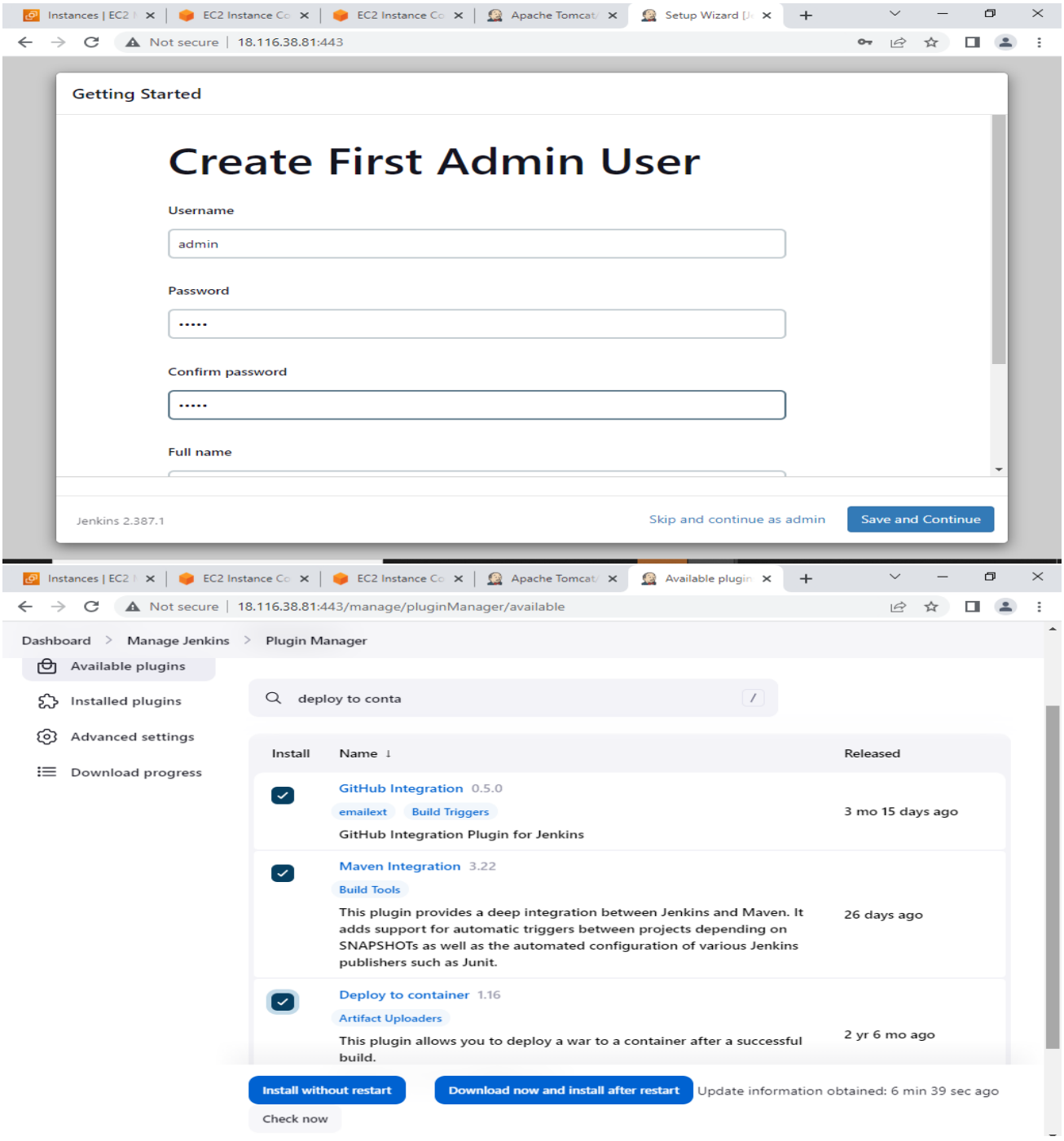

EC2 Management Cons
EC2 Instance Connect
EC2 Instance Connect
Setup Wizard [Jenkins]
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instancel...
aws
Services
Search
[Alt+S]
Ohio
Bhargav L N S N
[root@ip-172-31-1-34 manager]# ls
css images index.jsp META-INF status.xsd WEB-INF xform.xsl
[root@ip-172-31-1-34 manager]# cd META-INF/
[root@ip-172-31-1-34 META-INF]# ls
context.xml
[root@ip-172-31-1-34 META-INF]# vim context.xml
[root@ip-172-31-1-34 META-INF]# cd /bin
[root@ip-172-31-1-34 bin]# ls
[javap resizecons
a2p jcmd rev
abs2rel jconsole rm
ac jdb rmail
acpi_listen jdeprscan rmail.postfix
addr2line jdeps rmdir
alias jfr rmiregistry
amazon-linux-extras jhsdb rnano
amazon-ssm-agent jimage rngtest
apropos jinfo rpcgen
ar jlink rpm
arch jmap rpm2cpio
as jmod rpmdb
aserver jobs rpmkeys
at join rpmquery
atq journalctl rpmverify
atrm jpackage rst2html
attr jp.py rst2html-3
aulast jp.py-2 rst2html-3.7
aulastlog jp.py-2.7 rst2html4-3
ausyscall jps rst2html4-3.7
auvirt jrunscript rst2html5-3
awk jshell rst2html5-3.7
aws jsonpointer rst2latex

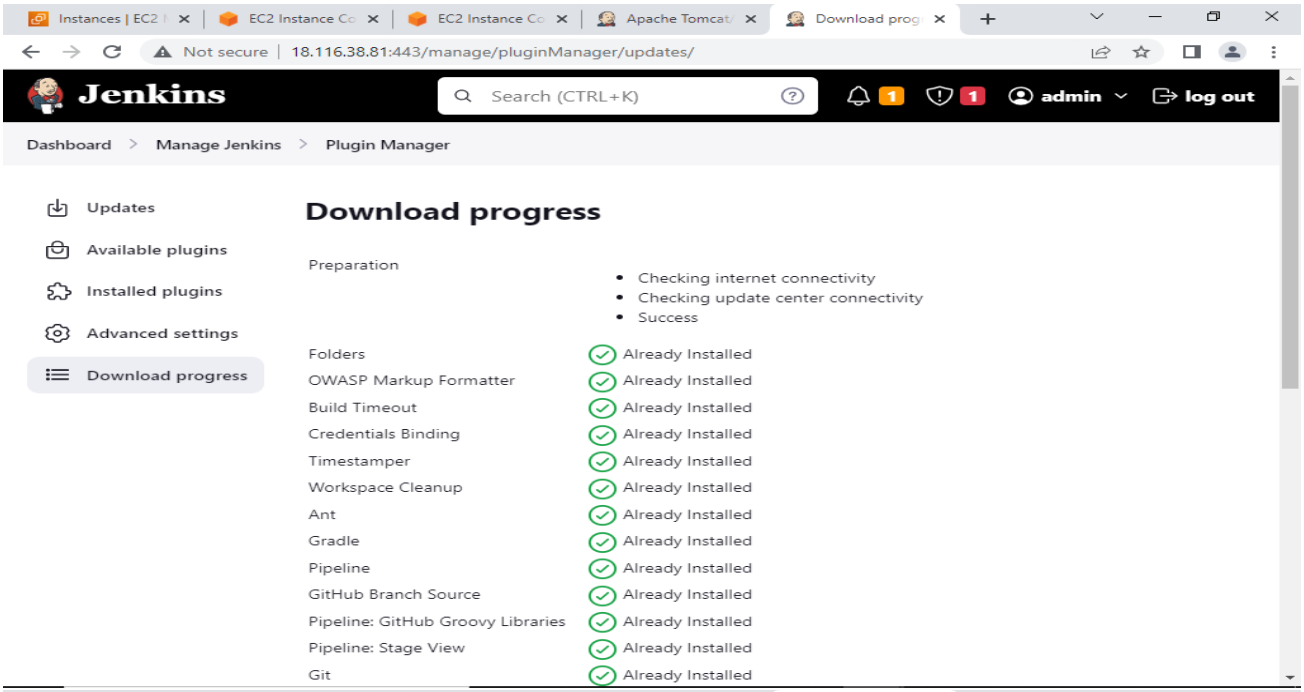

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instancel...
aws
Services
Search
[Alt+S]
Ohio
Bhargav L N S N
hibinit-agent
host
hostid
hostname
hostnamectl
hunspell
i386
iconv
id
idiag-socket-details
idn
igawk
info
infocmp
infokey
infotocap
install
ionice
iostat
ipcalc
ipcmk
ipcrm
ipcs
iptables-xml
isosize
jar
jarsigner
java
javac
javadoc
python2-config
python3
python3.7
python3.7m
python-config
pyvenv
pyvenv-3.7
quota
quotasync
ranlib
raw
rdate
read
readelf
readlink
realpath
rebuild-jar-repository
recode-sr-latin
red
rename
renice
repoclosure
repodiff
repo-graph
repomanage
repoquery
repo-rss
reposync
repotrack
reset
xzgrep
xzless
xzmore
yes
ypdomainname
yum
yum-builddep
yum-config-manager
yum-debug-dump
yum-debug-restore
yumdownloader
yum-groups-manager
zcat
zcmp
zdiff
zegrep
zfgrep
zforce
zgrep
zip
zipcloak
zipgrep
zipinfo
zipnote
zipsplit
zless
zmore
znew
zsoelim
[root@ip-172-31-1-34 bin]# chmod +x *.sh
[root@ip-172-31-1-34 bin]#
CloudShell
Feedback
Language
Privacy
Terms
Cookie preferences
EC2 Management Cons
EC2 Instance Connect
EC2 Instance Connect
Setup Wizard [Jenkins]
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instancel...
aws
Services
Search
[Alt+S]
Ohio
Bhargav L N S N
[root@ip-172-31-1-34 ~]# ls
apache-tomcat-9.0.75 jenkins.war
[root@ip-172-31-1-34 ~]# cd apache-tomcat-9.0.75/
[root@ip-172-31-1-34 apache-tomcat-9.0.75]# ls
bin conf lib logs README.md RUNNING.txt webapps
BUILDING.txt CONTRIBUTING.md LICENSE NOTICE RELEASE-NOTES temp work
[root@ip-172-31-1-34 apache-tomcat-9.0.75]# cd bin/
[root@ip-172-31-1-34 bin]# ls
bootstrap.jar commons-daemon.jar digest.sh shutdown.sh tool-wrapper.sh
catalina.bat commons-daemon-native.tar.gz makebase.bat startup.bat version.bat
catalina.sh configtest.bat makebase.sh startup.sh version.sh
catalina-tasks.xml configtest.sh setclasspath.bat tomcat-juli.jar
ciphers.bat daemon.sh setclasspath.sh tomcat-native.tar.gz
ciphers.sh digest.bat shutdown.bat tool-wrapper.bat
[root@ip-172-31-1-34 bin]# chmod +x *.sh
[root@ip-172-31-1-34 bin]# ./shutdown.sh
Using CATALINA_BASE: /root/apache-tomcat-9.0.75
Using CATALINA_HOME: /root/apache-tomcat-9.0.75
Using CATALINA_TMPDIR: /root/apache-tomcat-9.0.75/temp
Using JRE_HOME: /usr
Using CLASSPATH: /root/apache-tomcat-9.0.75/bin/bootstrap.jar:/root/apache-tomcat-9.0.75/bin/tomcat-juli.jar
Using CATALINA_OPTS:
NOTE: Picked up JDK_JAVA_OPTIONS: --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.base/java.util=ALL-UNNAMED --add-opens=java.base/java.util.concurrent=ALL-UNNAMED --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED
May 24, 2023 8:31:11 AM org.apache.catalina.startup.Catalina stopServer
SEVERE: Could not contact [localhost:8005] (base port [8005] and offset [0]). Tomcat may not be running.
May 24, 2023 8:31:11 AM org.apache.catalina.startup.Catalina stopServer
SEVERE: Error stopping Catalina
java.net.ConnectException: Connection refused
at java.base/sun.nio.ch.Net.connect0(Native Method)

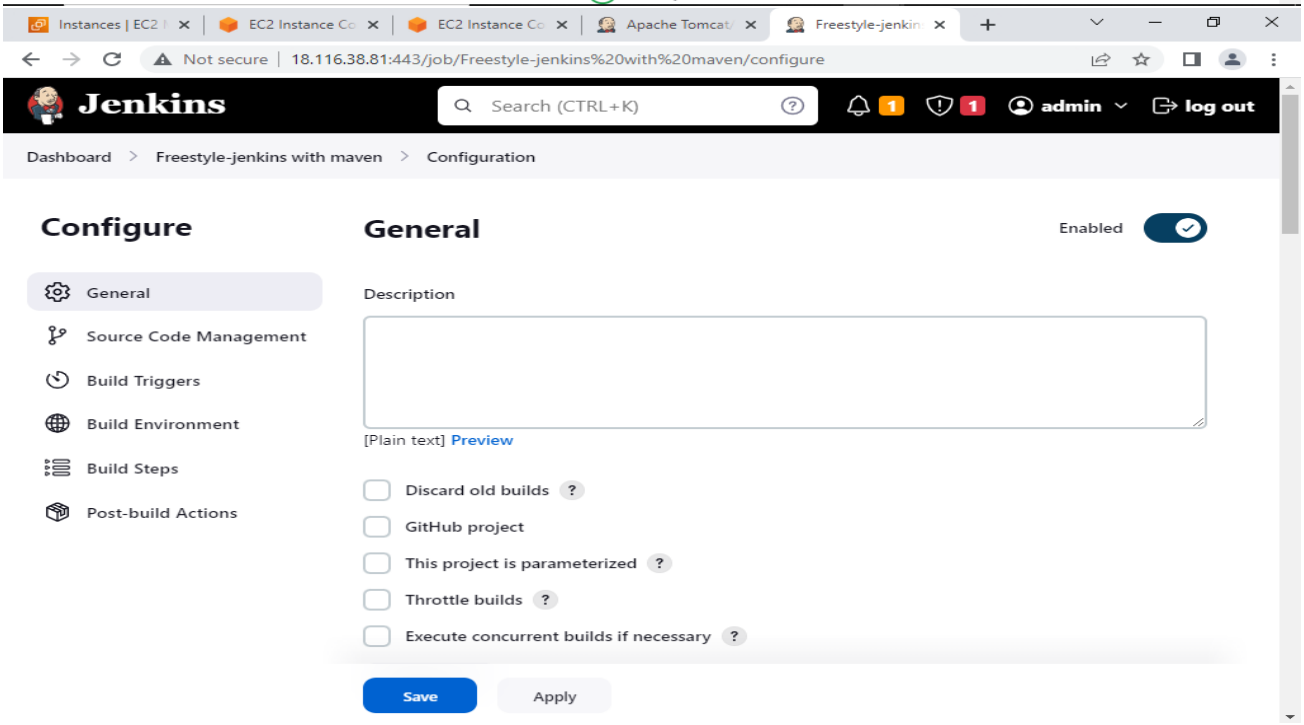


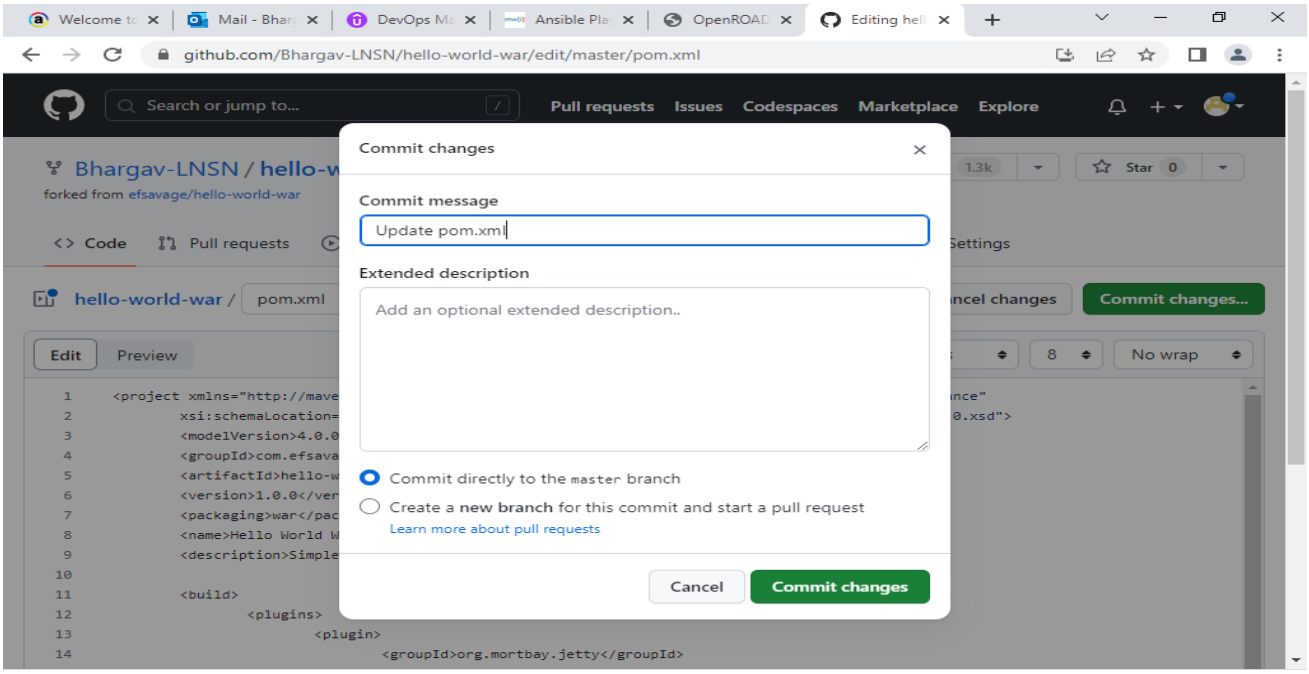
Now go jenkins and do a job:

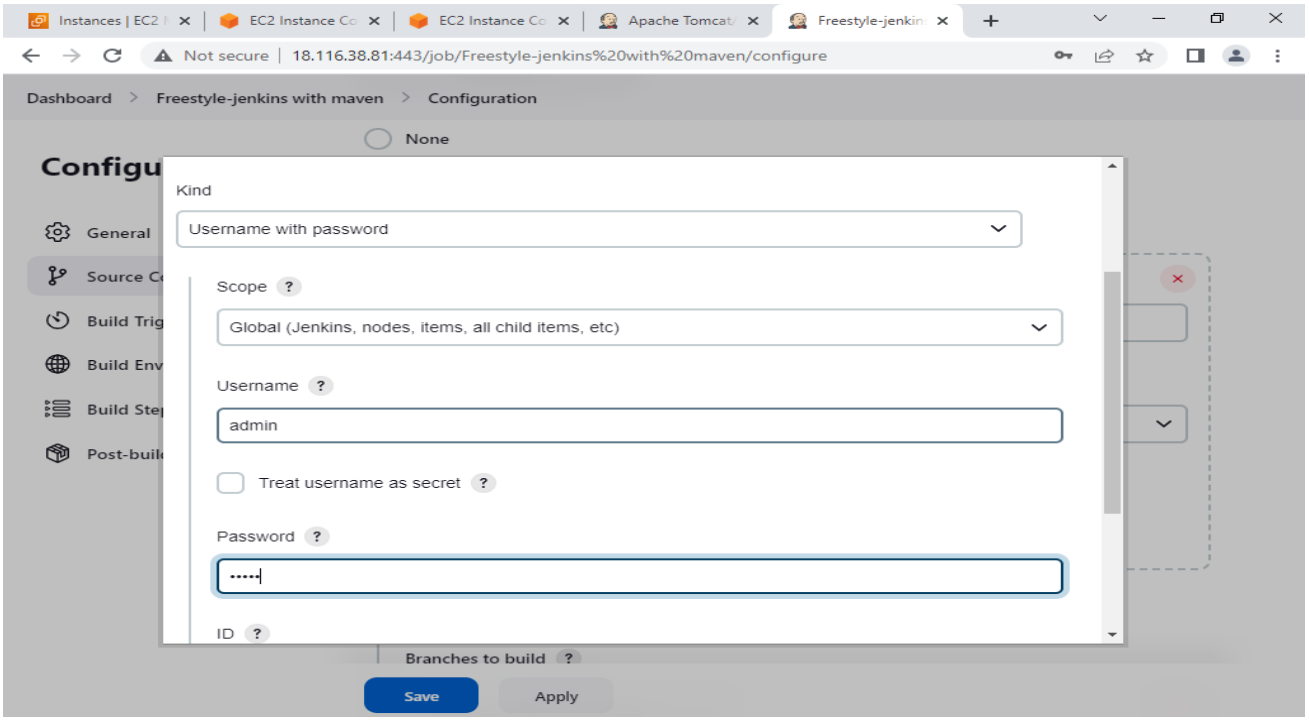
I. Login with password that is generated.
II. Add username password and gmail.
III. Fork a github repository to your github
IV. Now install extra plugins like github integration maven integration and deploy to container.
V. Add build step add executeshell.
VI. Apply and save
VII. Build now and configure.

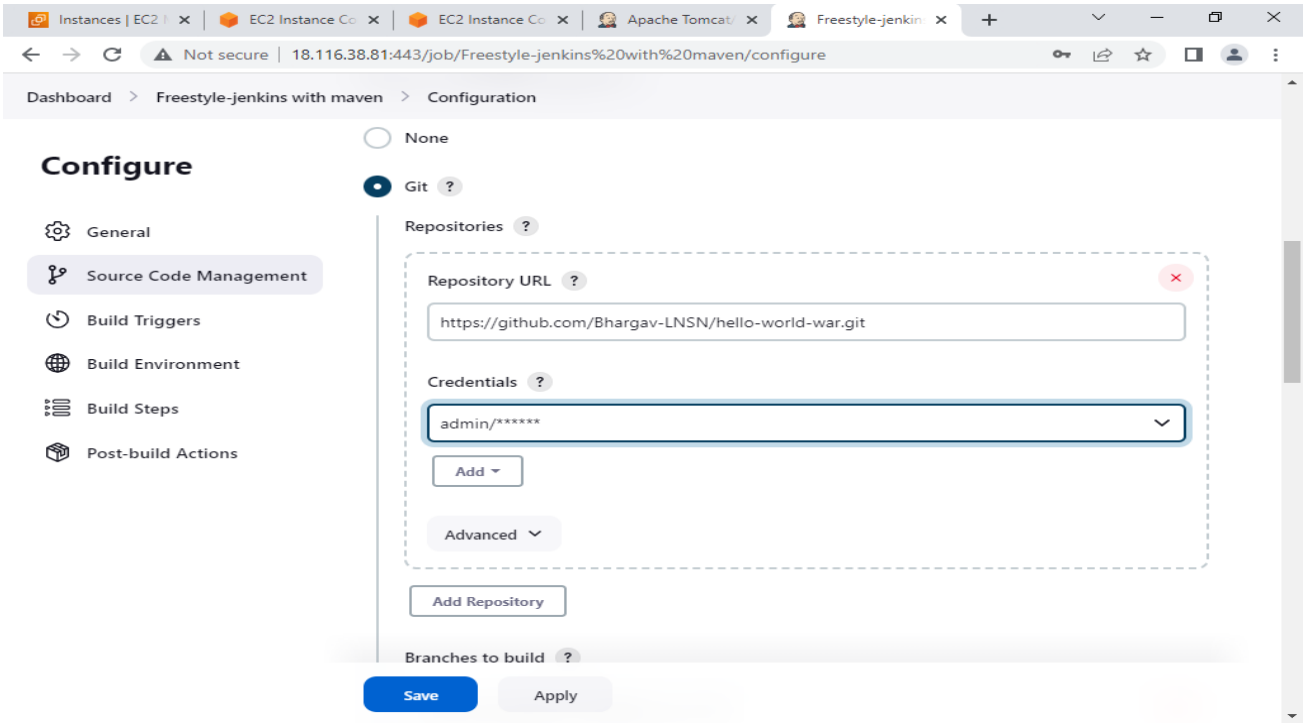

Not secure | 18.116.38.81:443
Getting Started
Create First Admin User
Username
admin
Password
Confirm password
Full name
Jenkins 2.387.1
Skip and continue as admin
Save and Continue
Not secure | 18.116.38.81:443/manage/pluginManager/available
Dashboard > Manage Jenkins > Plugin Manager
Available plugins
Installed plugins
Advanced settings
Download progress
deploy to conta
Install
Name
Released
GitHub Integration 0.5.0
emailext
Build Triggers
GitHub Integration Plugin for Jenkins
3 mo 15 days ago
Maven Integration 3.22
Build Tools
This plugin provides a deep integration between Jenkins and Maven. It adds support for automatic triggers between projects depending on SNAPSHOTs as well as the automated configuration of various Jenkins publishers such as Junit.
26 days ago
Deploy to container 1.16
Artifact Uploaders
This plugin allows you to deploy a war to a container after a successful build.
2 yr 6 mo ago
Install without restart
Download now and install after restart
Update information obtained: 6 min 39 sec ago
Check now

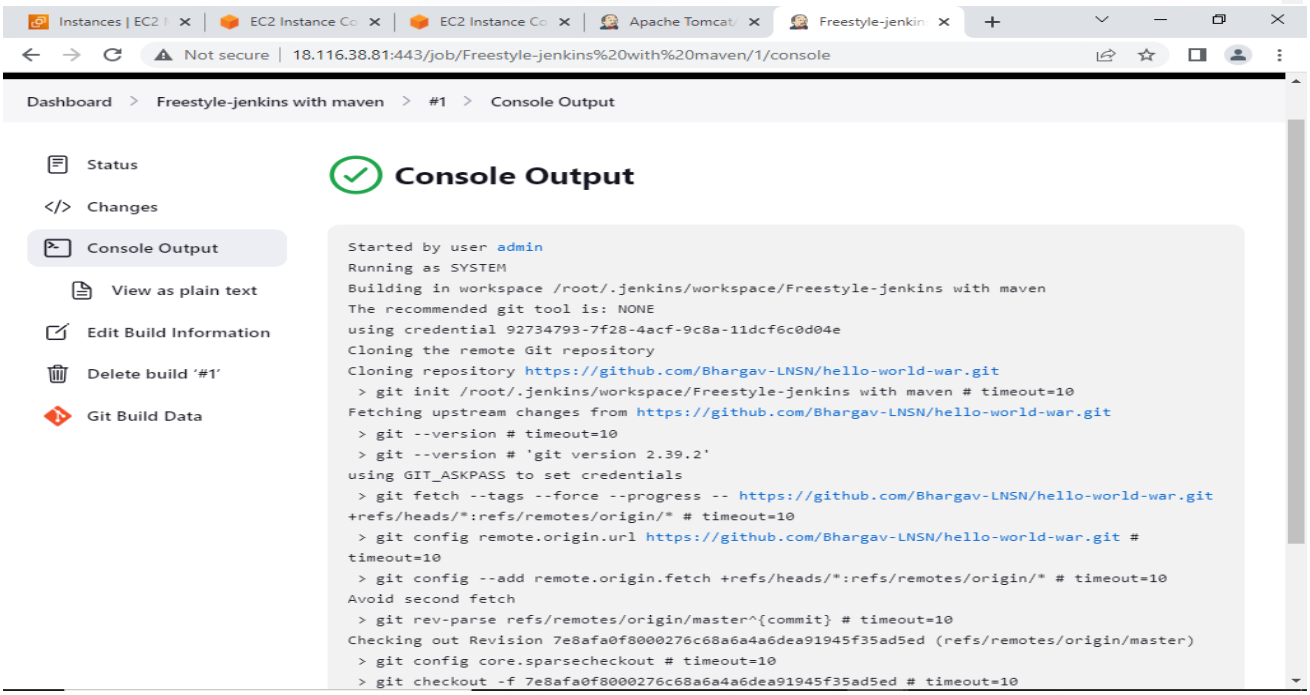

Instances | EC2
EC2 Instance Co
EC2 Instance Co
Apache Tomcat
Download prog
Not secure | 18.116.38.81:443/manage/pluginManager/updates/
Jenkins
Search (CTRL+K)
admin
log out
Dashboard > Manage Jenkins > Plugin Manager
Updates
Available plugins
Installed plugins
Advanced settings
Download progress
Download progress
Preparation
Checking internet connectivity
Checking update center connectivity
Success
Folders Already Installed
OWASP Markup Formatter Already Installed
Build Timeout Already Installed
Credentials Binding Already Installed
Timestamper Already Installed
Workspace Cleanup Already Installed
Ant Already Installed
Gradle Already Installed
Pipeline Already Installed
GitHub Branch Source Already Installed
Pipeline: GitHub Groovy Libraries Already Installed
Pipeline: Stage View Already Installed
Git Already Installed

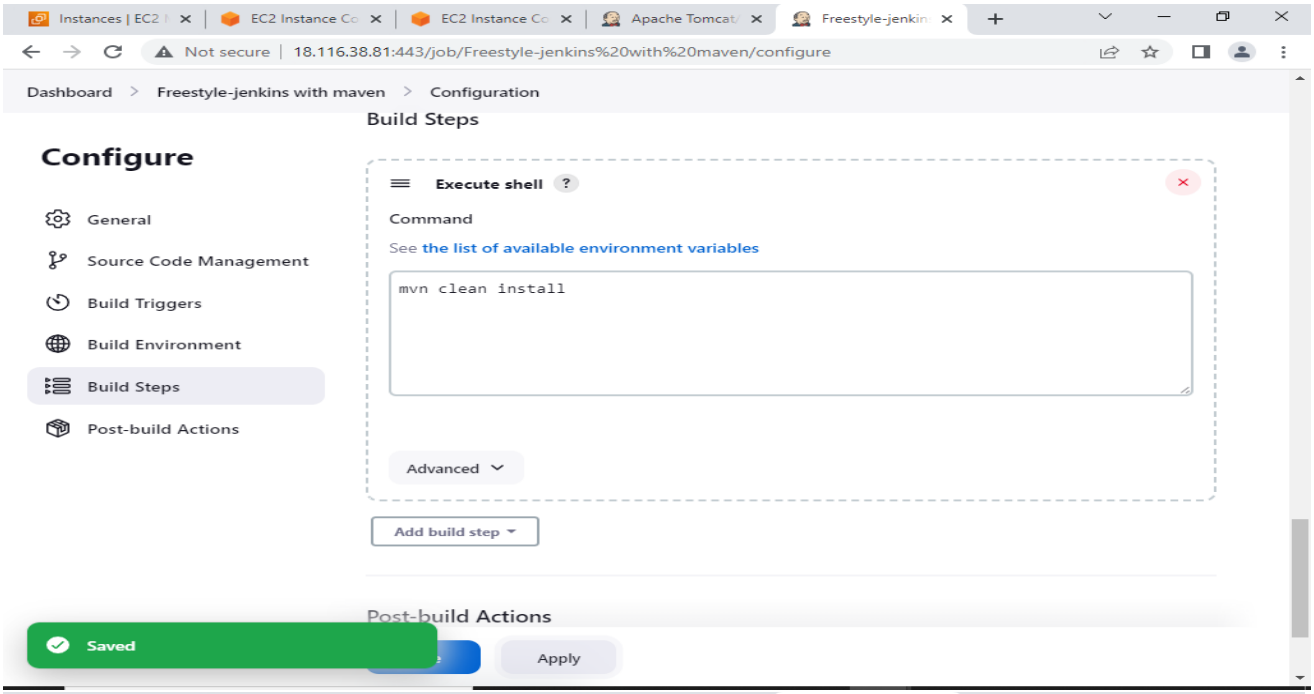

Instances | EC2
EC2 Instance Co
EC2 Instance Co
Apache Tomcat
Freestyle-jenkin
Not secure | 18.116.38.81:443/job/Freestyle-jenkins%20with%20maven/configure
Jenkins
Search (CTRL+K)
admin
log out
Dashboard > Freestyle-jenkins with maven > Configuration
Configure
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
General
Enabled
Description
[Plain text] Preview
Discard old builds
GitHub project
This project is parameterized
Throttle builds
Execute concurrent builds if necessary
Save
Apply

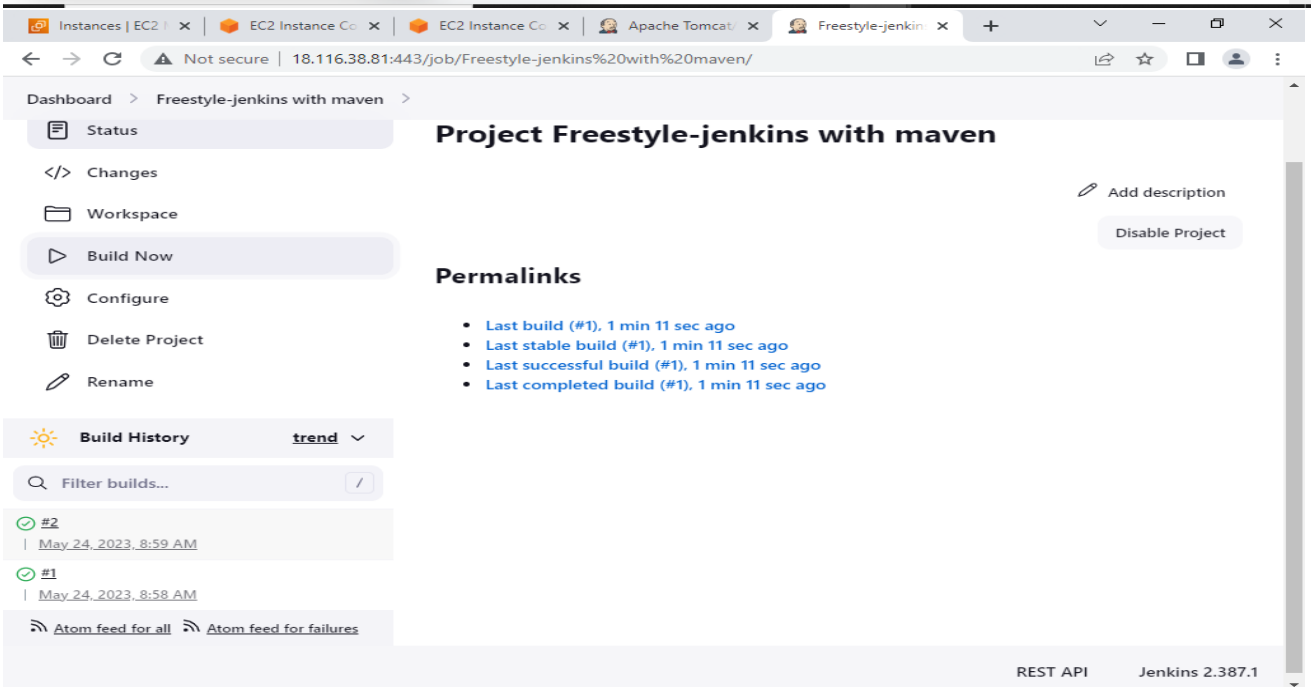

github.com/Bhargav-LNSN/hello-world-war/edit/master/pom.xml
Search or jump to...
Pull requests
Issues
Codespaces
Marketplace
Explore
Bhargav-LNSN / hello-w
forked from efsavage/hello-world-war
Star 0
Code
Pull requests
Settings
hello-world-war / pom.xml
Commit changes...
Edit
Preview
No wrap
Commit changes
Commit message
Update pom.xml
Extended description
Add an optional extended description..
Commit directly to the master branch
Create a new branch for this commit and start a pull request
Learn more about pull requests
Cancel
Commit changes

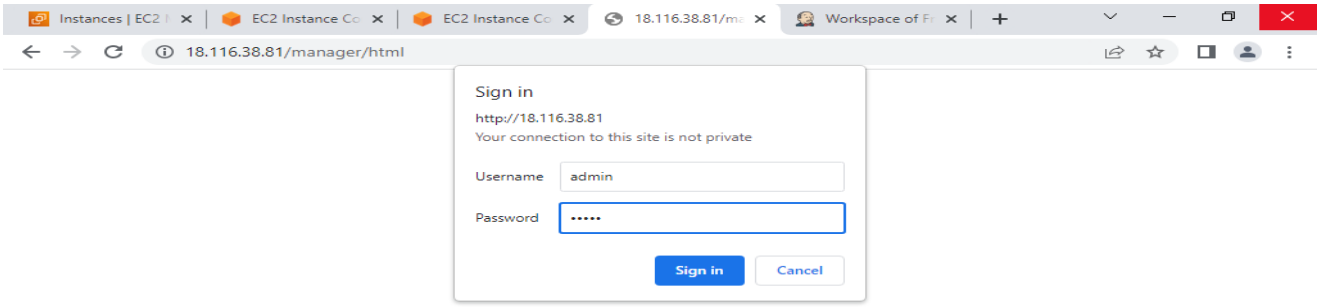

Not secure | 18.116.38.81:443/job/Freestyle-jenkins%20with%20maven/configure
Dashboard > Freestyle-jenkins with maven > Configuration
None
Kind
Username with password
Scope
Global (Jenkins, nodes, items, all child items, etc)
Username
admin
Treat username as secret
Password
ID
Branches to build
Save
Apply


Not secure | 18.116.38.81:443/job/Freestyle-jenkins%20with%20maven/configure
Dashboard > Freestyle-jenkins with maven > Configuration
Configure
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
None
Git
Repositories
Repository URL
https://github.com/Bhargav-LNSN/hello-world-war.git
Credentials
admin/******
Add
Advanced
Add Repository
Branches to build
Save
Apply

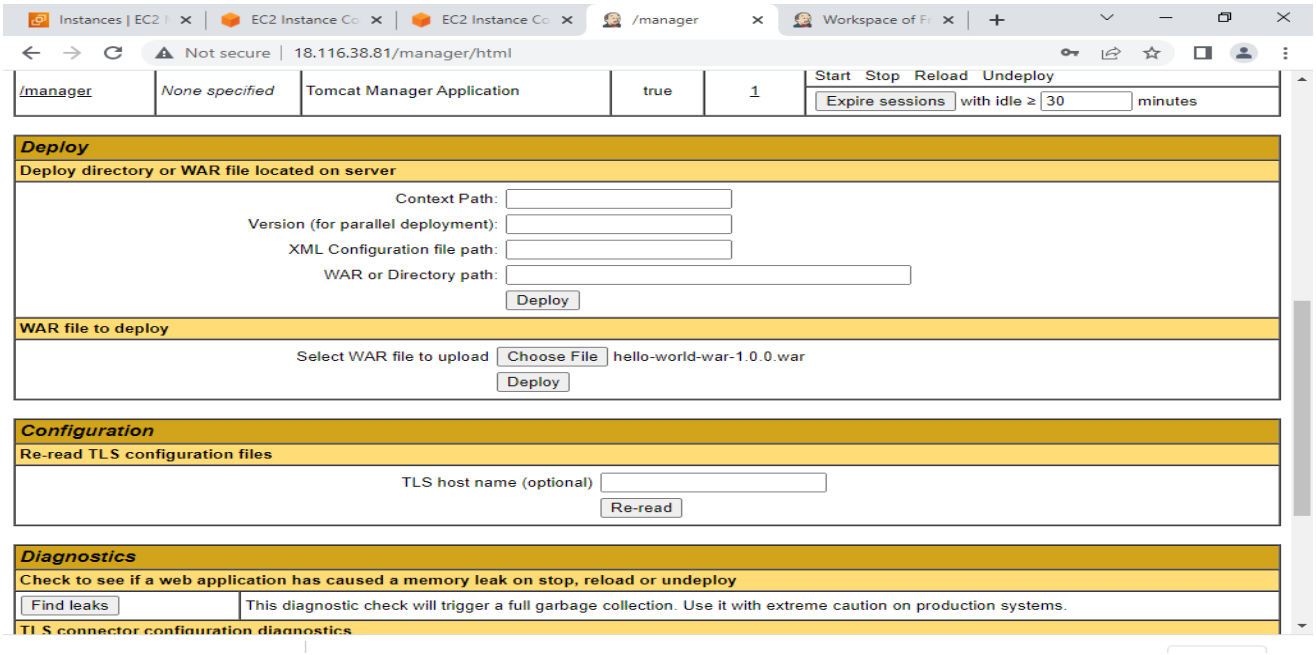

Not secure | 18.116.38.81:443/job/Freestyle-jenkins%20with%20maven/1/console
Dashboard > Freestyle-jenkins with maven > #1 > Console Output
Status
Changes
Console Output
View as plain text
Edit Build Information
Delete build '#1'
Git Build Data
Console Output
Started by user admin
Running as SYSTEM
Building in workspace /root/.jenkins/workspace/Freestyle-jenkins with maven
The recommended git tool is: NONE
using credential 92734793-7f28-4acf-9c8a-11dcf6c0d04e
Cloning the remote Git repository
Cloning repository https://github.com/Bhargav-LNSN/hello-world-war.git
> git init /root/.jenkins/workspace/Freestyle-jenkins with maven # timeout=10
Fetching upstream changes from https://github.com/Bhargav-LNSN/hello-world-war.git
> git --version # timeout=10
> git --version # 'git version 2.39.2'
using GIT_ASKPASS to set credentials
> git fetch --tags --force --progress -- https://github.com/Bhargav-LNSN/hello-world-war.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/Bhargav-LNSN/hello-world-war.git #
timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 7e8afa0f8000276c68a6a4a6dea91945f35ad5ed (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 7e8afa0f8000276c68a6a4a6dea91945f35ad5ed # timeout=10

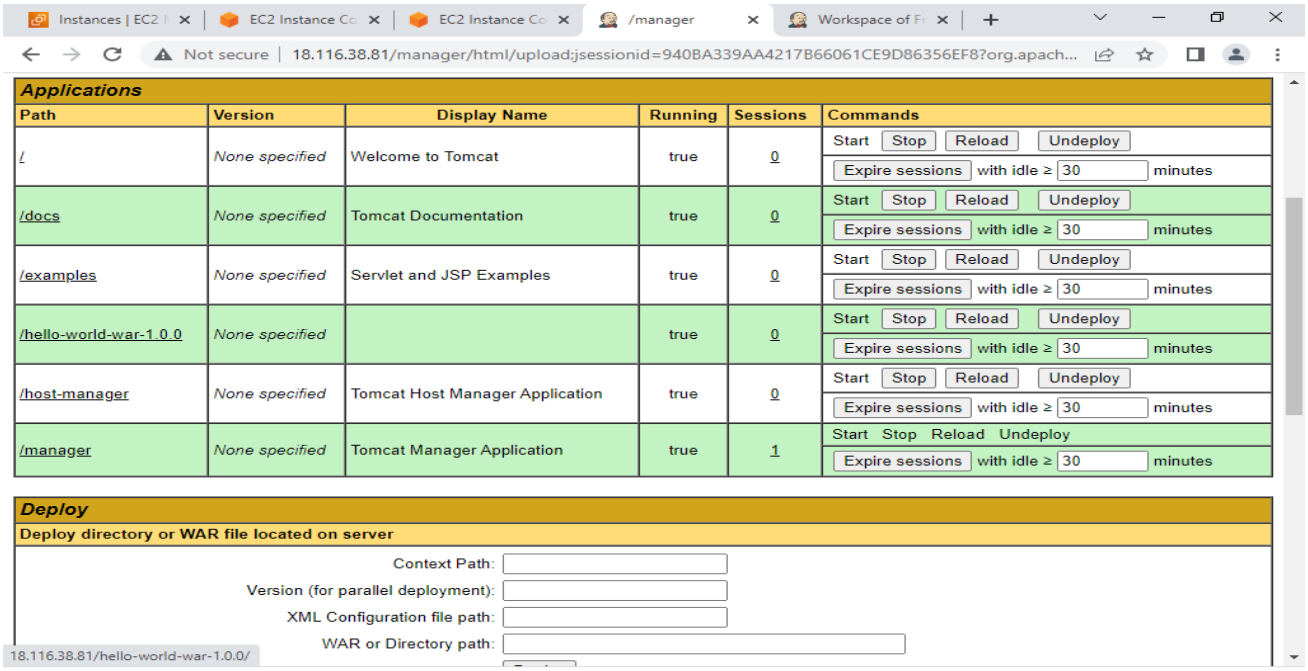

Instances | EC2
EC2 Instance Co
EC2 Instance Co
Apache Tomcat/
Freestyle-jenkin
Not secure | 18.116.38.81:443/job/Freestyle-jenkins%20with%20maven/configure
Dashboard > Freestyle-jenkins with maven > Configuration
Configure
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
Build Steps
Execute shell
Command
See the list of available environment variables
mvn clean install
Advanced
Add build step
Post-build Actions
Saved
Apply

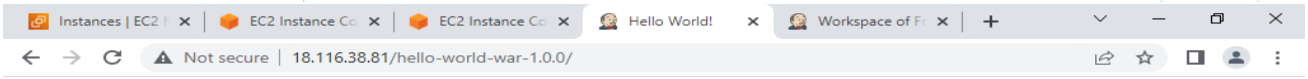

Instances | EC2
EC2 Instance Co
EC2 Instance Co
Apache Tomcat/
Freestyle-jenkin
Not secure | 18.116.38.81:443/job/Freestyle-jenkins%20with%20maven/
Dashboard > Freestyle-jenkins with maven >
Status
Changes
Workspace
Build Now
Configure
Delete Project
Rename
Build History
trend
Filter builds...
#2
May 24, 2023, 8:59 AM
#1
May 24, 2023, 8:58 AM
Atom feed for all
Atom feed for failures
Project Freestyle-jenkins with maven
Add description
Disable Project
Permalinks
Last build (#1), 1 min 11 sec ago
Last stable build (#1), 1 min 11 sec ago
Last successful build (#1), 1 min 11 sec ago
Last completed build (#1), 1 min 11 sec ago
REST API
Jenkins 2.387.1



Deploy the .war in Tomcat server.







Hello World!

It is now Wed May 24 09:40:35 UTC 2023

You are coming from 106.51.122.2