

Created Instances on AWS name as developer-server, Jenkins server and Tomcat server with same key-pair and same security group.

The screenshot shows the AWS Management Console interface for the EC2 service. The left sidebar navigation bar includes 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Instances' (selected), 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity', and 'Reservations'. The main content area displays a table titled 'Instances (1/3) Info' with three entries:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Developer-ser...	i-03562ff2ca26514ea	Running	t3.micro	Initializing	View alarms
Tomcat-Server	i-05b8fe40abe5ca0d0	Running	t3.micro	Initializing	View alarms
Jenkins-server	i-0190cc1cf5f4682e2	Running	t3.micro	Initializing	View alarms

Below the table, a detailed view for the first instance (Developer-server) is shown, including its Instance ID (i-03562ff2ca26514ea), Public IPv4 address (15.152.219.83), Private IPv4 addresses (172.31.7.178), Public IPv4 DNS (ec2-15-152-219-83.ap-northeast-3.compute.amazonaws.com), and its current state (Running).

Connected developer server instance with local system through ssh and gave it a localhost name as developer-server

```
root@ip-172-31-7-178:~ + | ~
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\10748090>cd Downloads

C:\Users\10748090\Downloads>ssh -i "deployment-key-pair.pem" ec2-user@ec2-15-152-219-83.ap-northeast-3.compute.amazonaws.com
#_
`_\_ #####_      Amazon Linux 2023
~~ \_#####\_
~~ \###_
~~ \#/ ___ https://aws.amazon.com/linux/amazon-linux-2023
~~ V~' `->
~~ .-. /_
~/` /_
/_m/`_/
Last login: Mon Sep  2 14:28:15 2024 from 136.226.233.19
[ec2-user@ip-172-31-7-178 ~]$ sudo su -
[root@ip-172-31-7-178 ~]# hostnamectl set-hostname developer-server.example.com
[root@ip-172-31-7-178 ~]# bash
[root@developer-server ~]# |
```

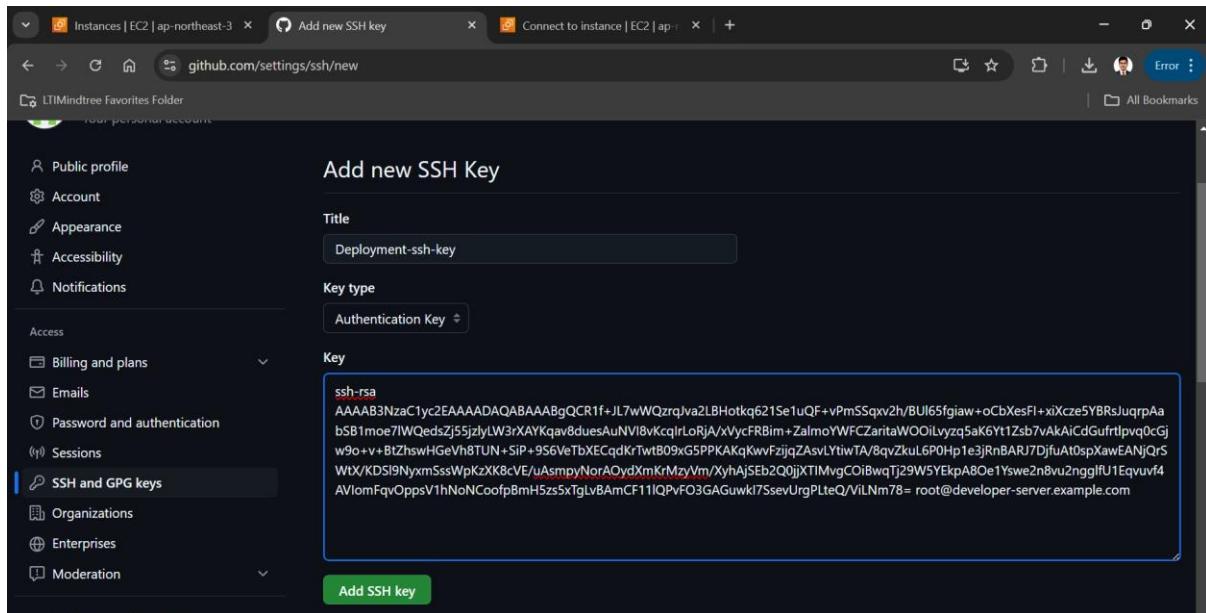
Installed and initialized git in developer-server

```
[root@developer-server ~]# yum install git -y
Last metadata expiration check: 0:11:43 ago on Mon Sep 2 14:21:36 2024.
Dependencies resolved.
=====
Package           Architecture      Version            Repository      Size
=====
git              x86_64          2.40.1-1.amzn2023.0.3   amazonlinux    54 k
git-core          x86_64          2.40.1-1.amzn2023.0.3   amazonlinux    4.3 M
git-core-doc     noarch          2.40.1-1.amzn2023.0.3   amazonlinux    2.6 M
perl-Error        noarch          1:0.17029-5.amzn2023.0.2   amazonlinux    41 k
perl-File-Find   noarch          1.37-477.amzn2023.0.6   amazonlinux    26 k
perl-Git          noarch          2.40.1-1.amzn2023.0.3   amazonlinux    42 k
perl-TermReadKey x86_64          2.38-9.amzn2023.0.2    amazonlinux    36 k
perl-lib          x86_64          0.65-477.amzn2023.0.6   amazonlinux    15 k
=====
Transaction Summary
=====
Install 8 Packages

Total download size: 7.1 M
Installed size: 34 M
Downloading Packages:
(1/8): git-2.40.1-1.amzn2023.0.3.x86_64.rpm           646 kB/s | 54 kB  00:00
(2/8): perl-Error-0.17029-5.amzn2023.0.2.noarch.rpm       1.7 MB/s | 41 kB  00:00
(3/8): perl-File-Find-1.37-477.amzn2023.0.6.noarch.rpm    1.6 MB/s | 26 kB  00:00
(4/8): git-core-doc-2.40.1-1.amzn2023.0.3.noarch.rpm      16 MB/s | 2.6 MB  00:00
(5/8): perl-Git-2.40.1-1.amzn2023.0.3.noarch.rpm         1.0 MB/s | 42 kB  00:00
(6/8): git-core-2.40.1-1.amzn2023.0.3.x86_64.rpm         19 MB/s | 4.3 MB  00:00
(7/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64.rpm    567 kB/s | 36 kB  00:00
(8/8): perl-lib-0.65-477.amzn2023.0.6.x86_64.rpm        244 kB/s | 15 kB  00:00
=====
Complete!
[root@developer-server ~]# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /root/.git/
```

Created and added public ssh-key to github-account for ssh-authentication

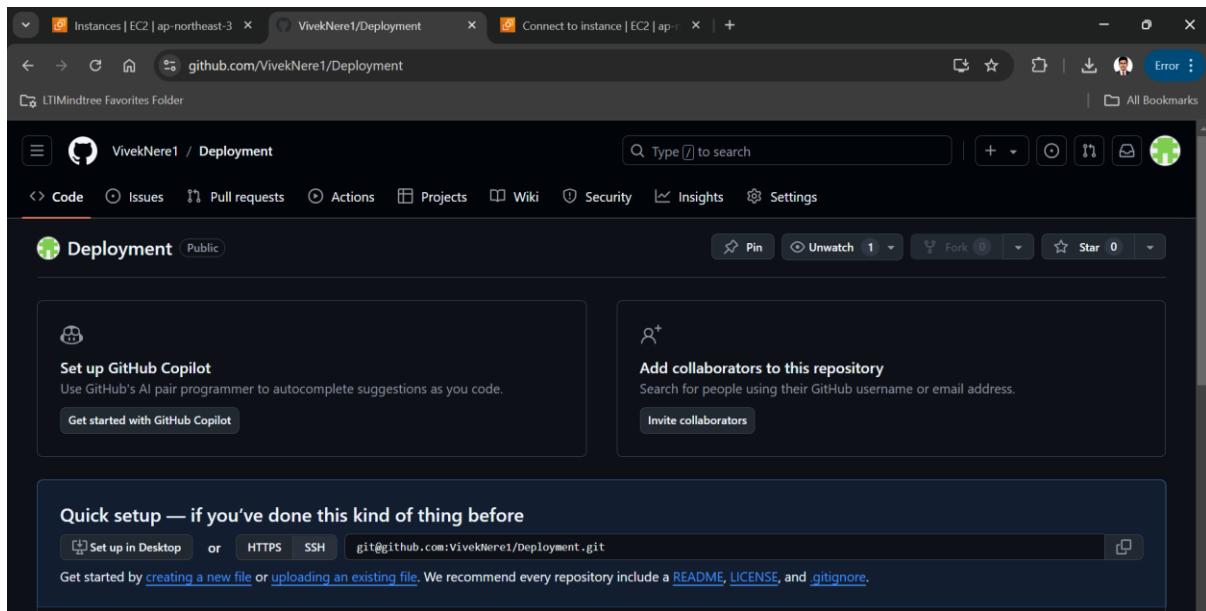
```
[root@developer-server ~]# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key's fingerprint is:
SHA256:TtyXfdjWDIhr6n236p2vhcbdrIZPqV506W81CZfPy8 root@developer-server.example.com
The key's randomart image is:
+---[RSA 3072]---+
| . +* |
| . o o. |
| . . . |
| . o o |
| So. o |
| o. . *.* |
| ... .+o# |
| ... .+FB |
| o==*XX |
+---[SHA256]---+
[root@developer-server ~]# ll
total 8
[root@developer-server ~]# ls -a
. .... .bash_logout .bash_profile .bashrc .git .ssh .tcshrc
[root@developer-server ~]# cd .ssh/
[root@developer-server .ssh]# ll
total 12
-rw-----. 1 root root 567 Sep 2 14:21 authorized_keys
-rw-----. 1 root root 2622 Sep 2 14:35 id_rsa
-rw-r--r--. 1 root root 587 Sep 2 14:35 id_rsa.pub
[root@developer-server .ssh]# cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAQABQCR1f+JL7wWZqrqJva2LBHotkq621Se1uQF+vMsSqv2h/BU165fgiaw+oCbXesFI+xiXce5YBRsJuqrpAabSB1moe7LWQedsZj55jzlyLW3zXAYKqav8
duesAuVI8VkcqIrOrJA/xycFrbim+2almoYWFCZarital00ilVyzq5ak6Yt1zb7vAHA1cdGufrtlpv0cGjw9o+*BtzhswiGeVh8TUN+SiP+956VeTbXEcqdKtTwB99xG5PPKAkqKwvfzijqZAsvLY
tiwTA/8qvZhul6P0Hpi1e3jRnBARJ7DjfujAt0spKawEANj0rSwX/kDSL9NyxsSsWpKzXH8cVE/uAsmyNor0ydkMktMzyVm/XyhAjSEB2Q0jjXTifvgCoibeqTj29M5YEkpA80e1Yswe2n8vu2nggLFU1E
qvuvf4AV1omFqv0psVlhNohCoopfBmH5zs5xTglvBAmCf11lPqvF03GAGuwkI7SevrgPLteQ/VilNm78= root@developer-server.example.com
[root@developer-server .ssh]# ^
[root@developer-server .ssh]#
```



CLONE JAVA PROJECT FROM GIT REPOSITORY WHERE IT IS PRESENT

```
[root@developer-server .ssh]# cd
[root@developer-server ~]# git clone https://github.com/VivekNere1/JENKINS.git
Cloning into 'JENKINS'...
remote: Enumerating objects: 155, done.
remote: Counting objects: 100% (155/155), done.
remote: Compressing objects: 100% (69/69), done.
remote: Total 155 (delta 39), reused 139 (delta 35), pack-reused 0 (from 0)
Receiving objects: 100% (155/155), 12.41 MiB | 17.50 MiB/s, done.
Resolving deltas: 100% (39/39), done.
[root@developer-server ~]# cd jenkins
bash: cd: jenkins: No such file or directory
[root@developer-server ~]# ll
total 0
drwxr-xr-x. 5 root root 179 Sep  2 14:39 JENKINS
[root@developer-server ~]# cd JENKINS/
[root@developer-server JENKINS]# |
```

Created deployment name repository in my account to push the code in that repository which we have cloned just now



Now we have successfully pushed the code on my own branch

```

root@developer-server JENKINS]# git init
Reinitialized existing Git repository in /root/JENKINS/.git/
[root@developer-server JENKINS]# git add .
[root@developer-server JENKINS]# git commit -m "first commit"
On branch main
nothing to commit, working tree clean
[root@developer-server JENKINS]# git remote remove origin
[root@developer-server JENKINS]# git remote add origin git@github.com:VivekNere1/Deployment.git
[root@developer-server JENKINS]# git branch -M main
[root@developer-server JENKINS]# git push origin main
The authenticity of host 'github.com (20.27.177.113)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3vvvV6TuJJhbZisF/zLDA0zPMsvHdkr4UvCQqU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
Enumerating objects: 143, done.
Counting objects: 100% (143/143), done.
Delta compression using up to 2 threads
Compressing objects: 100% (60/60), done.
Writing objects: 100% (143/143), 12.41 MiB | 3.37 MiB/s, done.
Total 143 (delta 39), reused 143 (delta 39), pack-reused 0
remote: Resolving deltas: 100% (39/39), done.
To github.com:VivekNere1/Deployment.git
 * [new branch]      main -> main
[root@developer-server JENKINS]#

```

The screenshot shows a GitHub repository named 'Deployment'. The repository has 1 branch (main) and 0 tags. The most recent commit was made 2 days ago by 'VivekNere1' with the message 'Update index.jsp'. The commit has 28 commits. The 'About' section has no description, website, or topics provided. The 'Releases' section shows no releases published. The 'Packages' section shows no packages published.

Now we have to open Jenkins-server instance in our machine using ssh and I have gave the hostname as Jenkins-server

```

root@ip-172-31-7-178:~/JENKI ~ root@ip-172-31-0-183:~ + 
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\10748090>cd Downloads

C:\Users\10748090\Downloads>ssh -i "deployment-key-pair.pem" ec2-user@ec2-15-152-106-53.ap-northeast-3.compute.amazonaws.com
The authenticity of host 'ec2-15-152-106-53.ap-northeast-3.compute.amazonaws.com (15.152.106.53)' can't be established.
ED25519 key fingerprint is SHA256:c+rHQNo0n9IRtiMbARTn0X9yydN8QkTsRpAvS0Q/f5.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-15-152-106-53.ap-northeast-3.compute.amazonaws.com' (ED25519) to the list of known hosts.

#_
\_#####
\_#####
\###
\#/ __ https://aws.amazon.com/linux/amazon-linux-2023
\#`-'__>
``--_/_/
/_/`/_/
/_/m/'

[ec2-user@ip-172-31-0-183 ~]$ sudo su -
[root@ip-172-31-0-183 ~]# hostnamectl set-hostname jenkins-server.example.com
[root@ip-172-31-0-183 ~]# bash
[root@jenkins-server ~]#

```

Now we have to add one extra inbound rule in security group for Jenkins server instance with port number 8080

The screenshot shows the AWS Management Console interface for modifying inbound security group rules. The security group rule ID is sgr-0282f2d8bcfeaf4e0. There are two rules listed:

- Rule 1: Type SSH, Protocol TCP, Port range 22, Source 0.0.0.0/0. This rule is highlighted.
- Rule 2: Type Custom TCP, Protocol TCP, Port range 8080, Source Any. This rule is also highlighted.

A button labeled "Add rule" is visible at the bottom left. A warning message at the bottom states: "⚠ Rules with source of 0.0.0.0/0 or -/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP."

Now we have to install and initialized git in Jenkins-server

```
[root@jenkins-server ~]# yum install git
Last metadata expiration check: 0:32:05 ago on Mon Sep  2 14:23:16 2024.
Dependencies resolved.
=====
Transaction Summary
=====
Install 8 Packages

Total download size: 7.1 M
Installed size: 34 M
Downloading Packages:
(1/8): git-2.40.1-1.amzn2023.0.3.x86_64.rpm          877 kB/s | 54 kB   00:00
(2/8): perl-Error-0.17029-5.amzn2023.0.2.noarch.rpm    1.7 MB/s | 41 kB   00:00
(3/8): perl-File-Find-1.37-477.amzn2023.0.6.noarch.rpm  977 kB/s | 26 kB   00:00
(4/8): git-core-doc-2.40.1-1.amzn2023.0.3.noarch.rpm    17 MB/s | 2.6 MB   00:00
(5/8): git-core-2.40.1-1.amzn2023.0.3.x86_64.rpm        23 MB/s | 4.3 MB   00:00
(6/8): perl-Git-2.40.1-1.amzn2023.0.3.noarch.rpm       549 kB/s | 42 kB   00:00
(7/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64.rpm  1.0 MB/s | 36 kB   00:00
(8/8): perl-lib-0.65-477.amzn2023.0.6.x86_64.rpm       315 kB/s | 15 kB   00:00
```

```
Complete!
[root@jenkins-server ~]# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /root/.git/
```

Now we have to install and configure java and Jenkins on Jenkins-server

```
[root@jenkins-server ~]# java -version
openjdk version "17.0.12" 2024-07-16
OpenJDK Runtime Environment Corretto-17.0.12.7.1 (build 17.0.12+7-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.12.7.1 (build 17.0.12+7-LTS, mixed mode, sharing)
[root@jenkins-server ~]# wget -O /etc/yum.repos.d/jenkins.repo \
  https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2024-09-02 15:01:27- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.90.133, 2a04:4e42:15::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.90.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

/etc/yum.repos.d/jenkins.repo    100%[=====]     85  --.-KB/s   in 0s

2024-09-02 15:01:28 (5.55 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

[root@jenkins-server ~]# rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
[root@jenkins-server ~]# dnf install jenkins -y
Jenkins-stable
Dependencies resolved.
=====
 Package           Architecture      Version            Repository      Size
 =====
 Installing:
 jenkins          noarch          2.462.1-1.1      jenkins        89 M

 Transaction Summary
 =====
 Install 1 Package

 Total download size: 89 M
 Installed size: 89 M
 Downloading Packages:
 jenkins-2.462.1-1.1.noarch.rpm
                               9.9 MB/s | 89 MB   00:08
 Total
 Running transaction check
 Transaction check succeeded.
 Running transaction test
 Transaction test succeeded.
 Running transaction
   Preparing :                                         1/1
   Running scriptlet: jenkins-2.462.1-1.1.noarch      1/1
   Installing  : jenkins-2.462.1-1.1.noarch          1/1
   Running scriptlet: jenkins-2.462.1-1.1.noarch      1/1
   Verifying   : jenkins-2.462.1-1.1.noarch          1/1

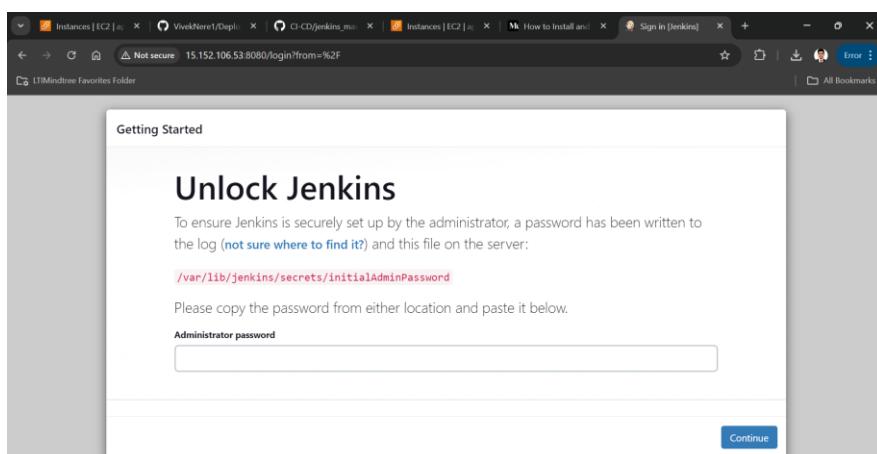
 Installed:
 jenkins-2.462.1-1.1.noarch

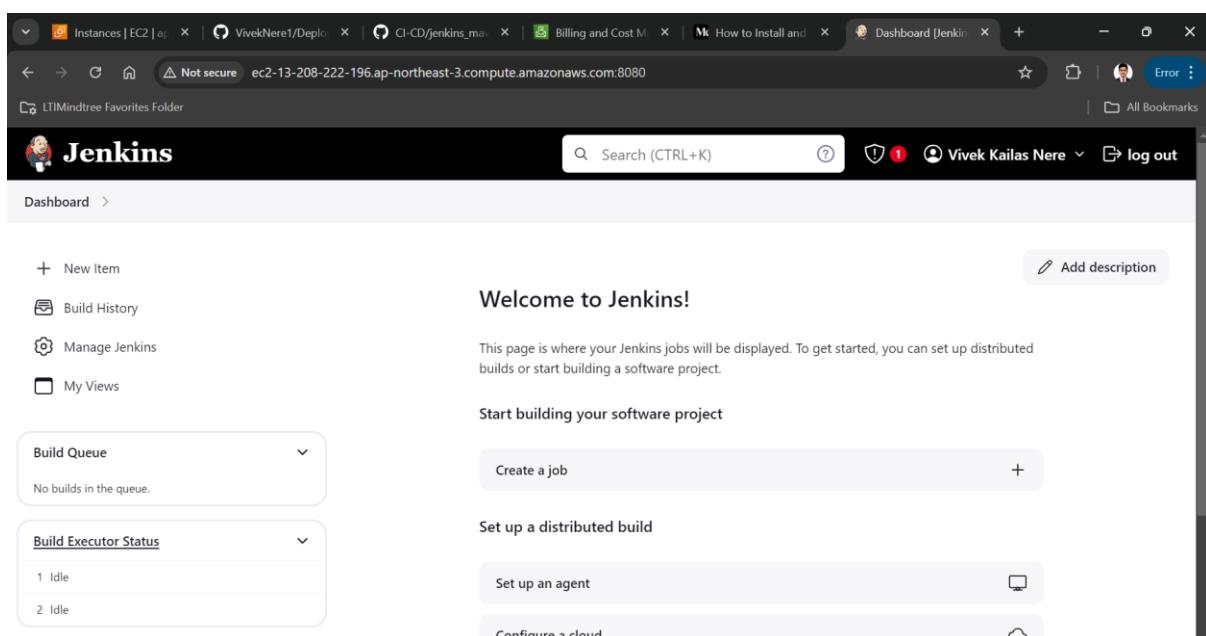
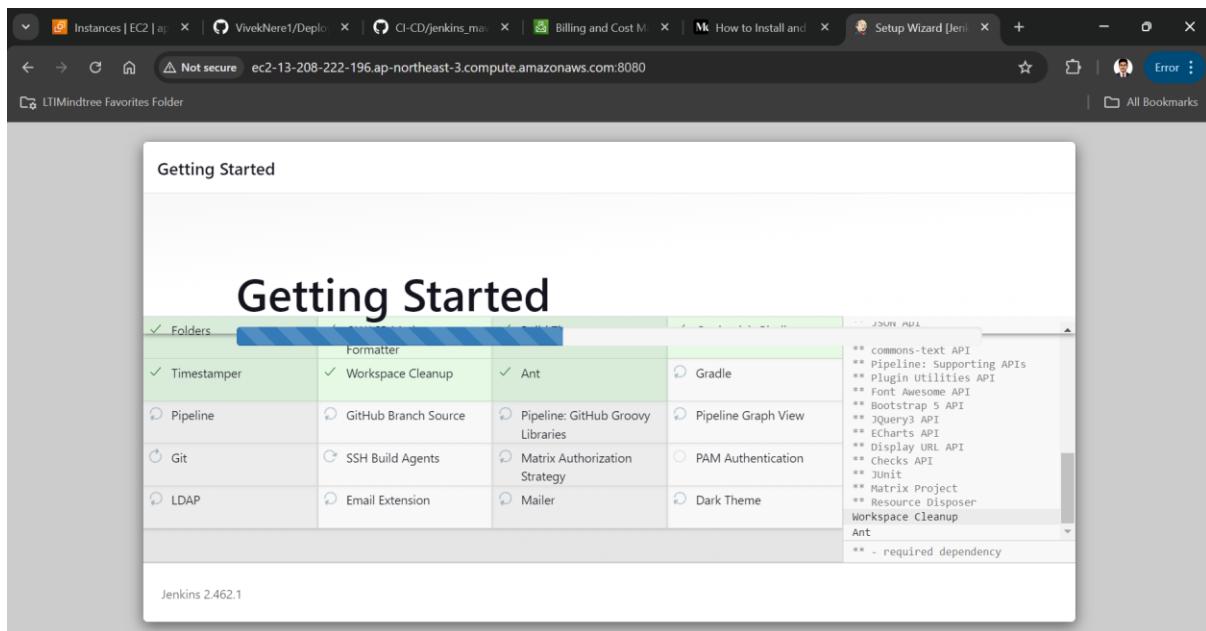
[root@jenkins-server ~]#
```

Enable and started Jenkins

```
[root@jenkins-server ~]# sudo systemctl enable jenkins
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /usr/lib/systemd/system/jenkins.service.
[root@jenkins-server ~]# sudo systemctl start jenkins
[root@jenkins-server ~]# ^C
[root@jenkins-server ~]#
```

Accessed Jenkins dashboard via, Jenkins-server machine's public ip address and 8080 port, and completed login process.





The screenshot shows the Jenkins 'Configure' screen for a user named 'Vivek Kailas Nere'. Under the 'API Token' section, a new token has been created. The token details are as follows:

- Created on: 2024-09-03T03:37:17.0
- Token ID: 1143893bf3eb932e7ccb9ba759b0cc4355

A prominent orange warning message states: "⚠️ Copy this token now, because it cannot be recovered in the future." Below the token details is a button labeled "Add new Token".

The screenshot shows the 'Add webhook' page in GitHub. The configuration is as follows:

- Payload URL ***: http://13.57.202.161:8080/github-webhook/
- Content type ***: application/x-www-form-urlencoded
- Secret**: 1143893bf3eb932e7ccb9ba759b0cc4355
- SSL verification**: Enable SSL verification Disable (not recommended)

The screenshot shows the 'Source Code Management' configuration in Jenkins. The repository details are:

- Repository URL**: https://github.com/VivekNere1/Deployment.git
- Credentials**: - none -
- Advanced** dropdown is open.

Below the repository configuration, there is a section for "Branches to build" which is currently empty.

Configure

- General
- Source Code Management**
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Advanced

Add Repository

Branches to build

Branch Specifier (blank for 'any')

```
*/main
```

Add Branch

- General
- Source Code Management
- Build Triggers**
- Build Environment
- Build Steps
- Post-build Actions

Build Triggers

- Trigger builds remotely (e.g., from scripts) ?
- Build after other projects are built ?
- Build periodically ?
- GitHub hook trigger for GITScm polling ?
- Poll SCM ?

Not secure ec2-13-208-222-196.ap-northeast-3.compute.amazonaws.com:8080/job/Deployment-CI-CD/2/console

LTMindtree Favorites Folder

Jenkins

Search (CTRL+K)

Vivek Kailas Nere log out

Dashboard > Deployment-CI-CD > #2 > Console Output

Status Changes

Console Output

Download Copy View as plain text

```

Started by user Vivek Kailas Nere
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Deployment-CI-CD
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Deployment-CI-CD/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/VivekNere1/Deployment.git # timeout=10
Fetching upstream changes from https://github.com/VivekNere1/Deployment.git
> git --version # timeout=10
> git --version # 'git' version 2.40.1'
> git fetch --tags --force --progress -- https://github.com/VivekNere1/Deployment.git
+refs/heads/*:refs/remotes/origin/*
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 4b78e644e172573f7b2e409ab0504d961e0a5b47 (refs/remotes/origin/main)
+refs/heads/*:refs/remotes/origin/*

```

```

Fetching upstream changes from https://github.com/VivekNere1/Deployment.git
> git --version # timeout=10
> git --version # 'git' version 2.40.1'
> git fetch --tags --force --progress -- https://github.com/VivekNere1/Deployment.git
+refs/heads/*:refs/remotes/origin/*
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 4b78e644e172573f7b2e409ab0504d961e0a5b47 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 4b78e644e172573f7b2e409ab0504d961e0a5b47 # timeout=10
Commit message: "Update index.jsp"
> git rev-list --no-walk 4b78e644e172573f7b2e409ab0504d961e0a5b47 # timeout=10
Finished: SUCCESS

```

#Installation and Configuration of maven:

```
[root@jenkins-server ~]# cd /opt
[root@jenkins-server opt]# wget https://dlcdn.apache.org/maven/maven-3/3.9.9/binaries/apache-maven-3.9.9-bin.tar.gz
--2024-09-03 03:59:46-- https://dlcdn.apache.org/maven/maven-3/3.9.9/binaries/apache-maven-3.9.9-bin.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 9102945 (8.7M) [application/x-gzip]
Saving to: 'apache-maven-3.9.9-bin.tar.gz'

apache-maven-3.9.9-bin.tar.gz      100%[=====] 8.68M --.-KB/s   in 0.02s

2024-09-03 03:59:46 (445 MB/s) - 'apache-maven-3.9.9-bin.tar.gz' saved [9102945/9102945]
```

```
[root@jenkins-server opt]# tar -xzvf apache-maven-3.9.9-bin.tar.gz
apache-maven-3.9.9/README.txt
apache-maven-3.9.9/LICENSE
apache-maven-3.9.9/NOTICE
apache-maven-3.9.9/lib/
apache-maven-3.9.9/lib/aopalliance.license
apache-maven-3.9.9/lib/commons-cli.license
apache-maven-3.9.9/lib/commons-codec.license
apache-maven-3.9.9/lib/failureaccess.license
apache-maven-3.9.9/lib/guava.license
apache-maven-3.9.9/lib/guice.license
apache-maven-3.9.9/lib/httpclient.license
apache-maven-3.9.9/lib/httpcore.license
apache-maven-3.9.9/lib/jansi.license
apache-maven-3.9.9/lib/javax.annotation-api.license
apache-maven-3.9.9/lib/javax.inject.license
apache-maven-3.9.9/lib/jcl-over-slf4j.license
apache-maven-3.9.9/lib/org.eclipse.sisu.inject.license
```

```
[root@jenkins-server opt]# cd maven/
[root@jenkins-server maven]# cd bin/
[root@jenkins-server bin]# ./mvn -v
Apache Maven 3.9.9 (8e8579a9e76f7d015ee5ec7bfcdc97d260186937)
Maven home: /opt/maven
Java version: 17.0.12, vendor: Amazon.com Inc., runtime: /usr/lib/jvm/java-17-amazon-corretto.x86_64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.1.102-111.182.amzn2023.x86_64", arch: "amd64", family: "unix"
[root@jenkins-server bin]# cd ..
[root@jenkins-server maven]# cd ~
[root@jenkins-server ~]# pwd
/root
[root@jenkins-server ~]# ll -a
total 24
dr-xr-x---. 4 root root 133 Sep  3 03:41 .
dr-xr-xr-x. 18 root root 237 Aug 15 17:15 ..
-rw-r--r--. 1 root root 18 Feb  2 2023 .bash_logout
-rw-r--r--. 1 root root 141 Feb  2 2023 .bash_profile
-rw-r--r--. 1 root root 429 Feb  2 2023 .bashrc
-rw-r--r--. 1 root root 100 Feb  2 2023 .cshrc
drwxr-xr-x. 7 root root 119 Sep  3 03:41 .git
drwx-----. 2 root root 29 Sep  3 03:21 .ssh
-rw-r--r--. 1 root root 129 Feb  2 2023 .tcsSRC
-rw-r--r--. 1 root root 164 Sep  3 03:24 .wget-hsts
```

#Install maven plugins and configure Jenkins for maven

in Jenkins -> manage Jenkins -> plugins -> available plugins -> install maven integration

Available plugins - Plugins [Jenkins]

Search (CTRL+K)

Vivek Kailas Nere

Plugins

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Install

maven integration

Maven Integration 3.23

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.

1 yr 1 mo ago

Pipeline Maven Integration 1421:v610fa_b_e2d60e

Pipeline Maven

This plugin provides integration with Pipeline, configures maven environment to use within a pipeline job by calling sh mvn or bat mvn. The selected maven installation will be configured and prepended to the path.

2 mo 28 days ago

To find out the home directory of maven and java

```
Command Prompt
root@jenkins-server ~]# cd /opt/
[root@jenkins-server opt]# cd maven/
[root@jenkins-server maven]# cd bin/
[root@jenkins-server bin]# mvn -v
Apache Maven 3.8.4 (Red Hat 3.8.4-3.amzn2023.0.5)
Maven home: /usr/share/maven
Java version: 17.0.12, vendor: Amazon.com Inc., runtime: /usr/lib/jvm/java-17-amazon-corretto.x86_64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.1.102-111.182.amzn2023.x86_64", arch: "amd64", family: "unix"
[root@jenkins-server bin]# |
```

- now we need to configure this plugins for that go to manage Jenkins tools-> add JDK -> name=java11 JAVA_HOME=/usr/lib/jvm/jre-17-openjdk then add maven ==> name=maven , MAVEN_HOME= /usr/share/maven

Tools [Jenkins]

JDK installations

Add JDK

Name

java11

JAVA_HOME

/usr/lib/jvm/java-17-amazon-corretto.x86_64

Install automatically

Save

Apply

The screenshot shows the Jenkins 'Tools' configuration page under 'Manage Jenkins > Tools'. A new Maven installation is being added with the name 'maven' and MAVEN_HOME set to '/usr/share/maven'. The 'Install automatically' checkbox is unchecked. Buttons for 'Save' and 'Apply' are at the bottom.

- now manage Jenkins -> plugins -> Installed plugins -> Disable the GITHUB branch source plugin & enable GitHub plugin and restart.

The screenshot shows the Jenkins 'Plugins' page under 'Manage Jenkins > Plugins'. The 'Installed plugins' tab is selected. The 'GitHub Branch Source Plugin' is listed with its status as 'Disabled'. A note says 'Changes will take effect when you restart Jenkins' and a button says 'Restart Once No Jobs Are Running'.

The screenshot shows the Jenkins 'Plugins' page under 'Manage Jenkins > Plugins'. The 'Available plugins' tab is selected. The 'GitHub API Plugin' and 'GitHub plugin' are listed with their status as 'Enabled'. A note says 'Changes will take effect when you restart Jenkins' and a button says 'Restart Once No Jobs Are Running'.



Please wait while Jenkins is restarting ...

Your browser will reload automatically when Jenkins is ready.

Safe Restart

Builds on agents can usually continue.

#Installation and configuration of Tomcat:

Open the tomcat-server instance into local machine by using ssh and set a hostname as tomcat-server

```
Command Prompt      x  root@jenkins-server:~  x  root@ip-172-31-9-125:~  x  +  -
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\10748090>cd Downloads

C:\Users\10748090\Downloads>clear
'clear' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\10748090\Downloads>ssh -i "deployment-key-pair.pem" ec2-user@ec2-15-152-159-145.ap-northeast-3.compute.amazonaws.com
The authenticity of host 'ec2-15-152-159-145.ap-northeast-3.compute.amazonaws.com (15.152.159.145)' can't be established.
ED25519 key fingerprint is SHA256:q76TWMmxuqrPKTRu6YRuN0iWFk/P3FpFQ2WFn908t/8.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-15-152-159-145.ap-northeast-3.compute.amazonaws.com' (ED25519) to the list of known hosts.

#_
  _###_          Amazon Linux 2023
  _###_\
  \##|
  #/ __> https://aws.amazon.com/linux/amazon-linux-2023
  / \
  . / \
  /m/ \
[ec2-user@ip-172-31-9-125 ~]$ sudo su -
[root@ip-172-31-9-125 ~]# hostnamectl set-hostname tomcat-server.example.com
[root@ip-172-31-9-125 ~]# bash
[root@tomcat-server ~]#
```

Installed java in tomcat-server

```
[root@tomcat-server ~]# dnf install java-17-amazon-corretto -y
Last metadata expiration check: 14:33:58 ago on Mon Sep  2 14:24:17 2024.
Dependencies resolved.
=====
Package           Architecture Version      Repository  Size
=====
java-17-amazon-corretto x86_64    1:17.0.12+7-1.amzn2023.1 amazonlinux 187 k
=====
Installing:
java-17-amazon-corretto x86_64    1:17.0.12+7-1.amzn2023.1 amazonlinux 187 k
Installing dependencies:
alsa-lib             x86_64    1.2.7.2-1.amzn2023.0.2 amazonlinux 504 k
cairo                x86_64    1.17.6-2.amzn2023.0.1 amazonlinux 684 k
dejavu-sans-fonts   noarch    2.37-16.amzn2023.0.2 amazonlinux 1.3 M
dejavu-sans-mono-fonts noarch    2.37-16.amzn2023.0.2 amazonlinux 467 k
dejavu-serif-fonts  noarch    2.37-16.amzn2023.0.2 amazonlinux 1.0 M
fontconfig            x86_64    2.13.94-2.amzn2023.0.2 amazonlinux 273 k
fonts-filesystem     noarch    1:2.0.5-12.amzn2023.0.1 amazonlinux 9.5 k
freetype              x86_64    2.13.2-5.amzn2023.0.1 amazonlinux 423 k
giflib                x86_64    5.2.1-9.amzn2023.0.1 amazonlinux 49 k
google-noto-fonts-common noarch    20201206-2.amzn2023.0.2 amazonlinux 15 k
google-noto-sans-vf-fonts noarch    20201206-2.amzn2023.0.2 amazonlinux 492 k
graphite2             x86_64    1.3.14-7.amzn2023.0.2 amazonlinux 97 k
harfbuzz              x86_64    7.0.0-2.amzn2023.0.1 amazonlinux 868 k
java-17-amazon-corretto-headless x86_64    1:17.0.12+7-1.amzn2023.1 amazonlinux 91 M
javapackages-filesystem noarch    6.0.0-7.amzn2023.0.6 amazonlinux 12 k
langpacks-core-font-en noarch    3.0-21.amzn2023.0.4 amazonlinux 10 k
libICE                x86_64    1.0.10-6.amzn2023.0.2 amazonlinux 71 k
libSM                 x86_64    1.2.3-8.amzn2023.0.2 amazonlinux 42 k
libX11                x86_64    1.7.2-3.amzn2023.0.4 amazonlinux 657 k
libX11-common          noarch    1.7.2-3.amzn2023.0.4 amazonlinux 152 k
libXau                x86_64    1.0.9-6.amzn2023.0.2 amazonlinux 31 k
libXext                x86_64    1.3.4-6.amzn2023.0.2 amazonlinux 41 k
libXi                 x86_64    1.7.10-6.amzn2023.0.2 amazonlinux 40 k
libXinerama             x86_64    1.1.4-8.amzn2023.0.2 amazonlinux 15 k
```

Download tar file of tomcat from tomcat official website in /opt folder

```
[root@tomcat-server ~]# cd /opt/
[root@tomcat-server opt]# wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.93/bin/apache-tomcat-9.0.93.tar.gz
--2024-09-03 05:06:13-- https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.93/bin/apache-tomcat-9.0.93.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 12122732 (12M) [application/x-gzip]
Saving to: 'apache-tomcat-9.0.93.tar.gz'

apache-tomcat-9.0.93.tar.gz      100%[=====] 11.56M --.-KB/s   in 0.03s

2024-09-03 05:06:14 (396 MB/s) - 'apache-tomcat-9.0.93.tar.gz' saved [12122732/12122732]

[root@tomcat-server opt]# |
```

Extract tar file:

```
[root@tomcat-server opt]# ls
apache-tomcat-9.0.93.tar.gz  aws
[root@tomcat-server opt]# tar xvzf apache-tomcat-9.0.93.tar.gz
apache-tomcat-9.0.93/conf/
apache-tomcat-9.0.93/conf/catalina.policy
apache-tomcat-9.0.93/conf/catalina.properties
apache-tomcat-9.0.93/conf/context.xml
apache-tomcat-9.0.93/conf/jaspic-providers.xml
apache-tomcat-9.0.93/conf/jaspic-providers.xsd
```

Move in tomcat folder

Now we have to start the tomcat server

```
[root@tomcat-server opt]# mv apache-tomcat-9.0.93 tomcat
[root@tomcat-server opt]# cd tomcat
[root@tomcat-server tomcat]# cd bin
[root@tomcat-server bin]# ./startup.sh
Using CATALINA_BASE: /opt/tomcat
Using CATALINA_HOME: /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME: /usr
Using CLASSPATH: /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@tomcat-server bin]# |
```

in google open [http://\(ip of tomcat server instance\):8080](http://(ip of tomcat server instance):8080)

The screenshot shows the Apache Tomcat 9.0.93 homepage. At the top, there's a navigation bar with links to Home, Documentation, Configuration, Examples, Wiki, and Mailing Lists. A 'Find Help' button is also present. Below the navigation is a green banner with the text 'If you're seeing this, you've successfully installed Tomcat. Congratulations!'. To the left of the banner is a cartoon cat logo. To the right, there are links for Server Status, Manager App, and Host Manager. The main content area includes sections for 'Developer Quick Start' (with links to Tomcat Setup, First Web Application, Realms & AAA, JDBC DataSources, Examples, and Servlet Specifications), 'Documentation' (with links to Tomcat 9.0 Documentation, Tomcat 9.0 Configuration, and Tomcat Wiki), and 'Getting Help' (with links to FAQ and Mailing Lists).

now we have make some changes in context.xml file for that we need to find that file in tomcat

```
[root@tomcat-server bin]# cd ..
[root@tomcat-server tomcat]# find / -name context.xml
/opt/tomcat/conf/context.xml
/opt/tomcat/webapps/docs/META-INF/context.xml
/opt/tomcat/webapps/examples/META-INF/context.xml
/opt/tomcat/webapps/host-manager/META-INF/context.xml
/opt/tomcat/webapps/manager/META-INF/context.xml
[root@tomcat-server tomcat]#
```

```
#comment value tag sections in below all files
[root@tomcat-server bin]# vim /opt/tomcat/webapps/examples/META-INF/context.xml
[root@tomcat-server bin]# vim /opt/tomcat/webapps/host-manager/META-INF/context.xml
[root@tomcat-server bin]# vim /opt/tomcat/webapps/manager/META-INF/context.xml
<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
allow="127\\.\\d+\\.\\d+\\.\\d+:1|0:0:0:0:0:1" /> --!>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at
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>
  <CookieProcessor className="org.apache.tomcat.util.http.Rfc6265CookieProcessor"
    sameSiteCookies="strict" />
  <!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
    allow="127\\.\\d+\\.\\d+\\.\\d+:1|0:0:0:0:0:1" /> -->
</Context>
~
```

Now we need to change tomcat user configuration info:

The screenshot shows three terminal windows side-by-side:

- Terminal 1 (Left):** Command Prompt window showing the command: [root@tomcat-server bin]# cd ..
- Terminal 2 (Middle):** root@jenkins-server:~ window showing the command: [root@tomcat-server tomcat]# cd conf/
- Terminal 3 (Right):** root@tomcat-server:/opt/ton window showing the command: [root@tomcat-server conf]# vim tomcat-users.xml

The rightmost terminal window displays the XML content of the `tomcat-users.xml` file. The XML defines several user entries and role definitions:

```

<tomcat-users xmlns="http://tomcat.apache.org/xml"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
  version="1.0">
  <!--
    By default, no user is included in the "manager-gui" role required
    to operate the "/manager/html" web application. If you wish to use this app,
    you must define such a user - the username and password are arbitrary.

    Built-in Tomcat manager roles:
    - manager-gui      - allows access to the HTML GUI and the status pages
    - manager-script   - allows access to the HTTP API and the status pages
    - manager-jmx      - allows access to the JMX proxy and the status pages
    - manager-status   - allows access to the status pages only

    The users below are wrapped in a comment and are therefore ignored. If you
    wish to configure one or more of these users for use with the manager web
    application, do not forget to remove the <...> that surrounds them. You
    will also need to set the passwords to something appropriate.
  -->
  <!--
    <user username="admin" password=<must-be-changed> roles="manager-gui"/>
    <user username="robot" password=<must-be-changed> roles="manager-script"/>
  -->
  <!--
    The sample user and role entries below are intended for use with the
    examples web application. They are wrapped in a comment and thus are ignored
    when reading this file. If you wish to configure these users for use with the
    examples web application, do not forget to remove the <...> that surrounds
    them. You will also need to set the passwords to something appropriate.
  -->
  <role rolename="manager-gui"/>
  <role rolename="manager-script"/>
  <role rolename="manager-jmx"/>
  <role rolename="manager-status"/>
  <user username="admin" password="admin" roles="manager-gui,manager-script,manager-jmx,manager-status"/>
  <user username="deployer" password="deployer" roles="manager-script"/>
  <user username="tomcat" password="s3cret" roles="manager-gui"/>
</tomcat-users>
-- INSERT (paste) --

```

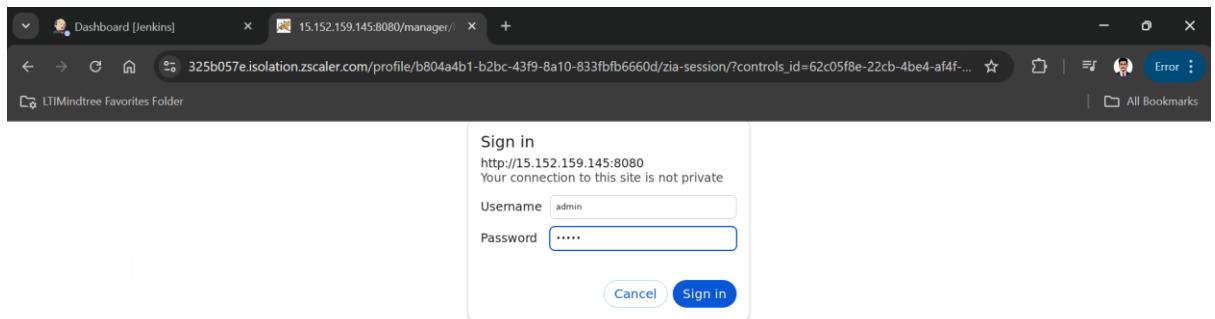
now we need to reboot the tomcat server

The terminal window shows the execution of the shutdown script followed by the startup script:

```

[root@tomcat-server conf]# cd ..
[root@tomcat-server tomcat]# cd bin/
[root@tomcat-server bin]# ./shutdown.sh
Using CATALINA_BASE:  /opt/tomcat
Using CATALINA_HOME:  /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/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
[root@tomcat-server bin]# ./startup.sh
Using CATALINA_BASE:  /opt/tomcat
Using CATALINA_HOME:  /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@tomcat-server bin]#

```



Integrating tomcat server with Jenkins:

there is no predefined tomcat plugin in Jenkins so we need to install "deploy to container plugin" then configure the tomcat server with credentials

manage Jenkins -> plugins -> available plugins -> deploy to container

The screenshot shows the Jenkins Plugins page. A search bar at the top right contains the text "deploy to container". Below it, a table lists the plugin "Deploy to container" by "Artifact Uploaders". The table includes columns for "Install", "Name", and "Released". The "Deploy to container" row is highlighted with a blue background and has a checkmark in the "Install" column. The "Released" column shows "3 yr 10 mo ago". A "Install" button is visible on the right.

now we need to add credentials of tomcat to the Jenkins

manage Jenkins -> credentials -> system -> global credentials -> add

credentials(<user username="deployer" password="deployer" roles="manager-script"/>) id and description=tomcat-credentials

The screenshot shows the "New credentials" creation page. The "Kind" dropdown is set to "Username with password". The "Scope" dropdown is set to "Global (Jenkins, nodes, items, all child items, etc)". The "Username" field contains "deployer". A checkbox labeled "Treat username as secret" is unchecked. At the bottom is a "Create" button.

The screenshot shows the "Global credentials (unrestricted)" page. It displays a single credential entry: "manager-script" with "deployer/******** (manager-script)" as the name, "Username with password" as the kind, and "manager-script" as the description. There is a "Add Credentials" button at the top right.

Global credentials (unrestricted)

+ Add Credentials

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
manager-script	deployer/******** (manager-script)	Username with password	manager-script

Icon: S M L

then go to dashboard and create new item name as BuildAndDeployToTomcat as a maven project

add git repository http url

make branch main

and at the last click on "Add post-build action" and select "Deploy war/ear to a container"

in war/ear file add "*/*.war"

add container Tomcat 8.x

add tomcat-server instance url

save and apply

The screenshot shows two consecutive screenshots of the Jenkins configuration interface for a job named 'BuildAndDeployToTomcat'.

Source Code Management (Top Screenshot):

- The left sidebar shows navigation options: General, Source Code Management (selected), Build Triggers, Build Environment, Pre Steps, Build, Post Steps, Build Settings, and Post-build Actions.
- The main panel is titled 'Source Code Management'.
- A radio button for 'None' is unselected.
- A radio button for 'Git' is selected.
- Under 'Git', there is a 'Repositories' section with a 'Repository URL' input field containing 'https://github.com/VivekNere1/Deployment.git' and a 'Credentials' dropdown set to '- none -'.
- At the bottom are 'Save' and 'Apply' buttons.

Post-build Actions (Bottom Screenshot):

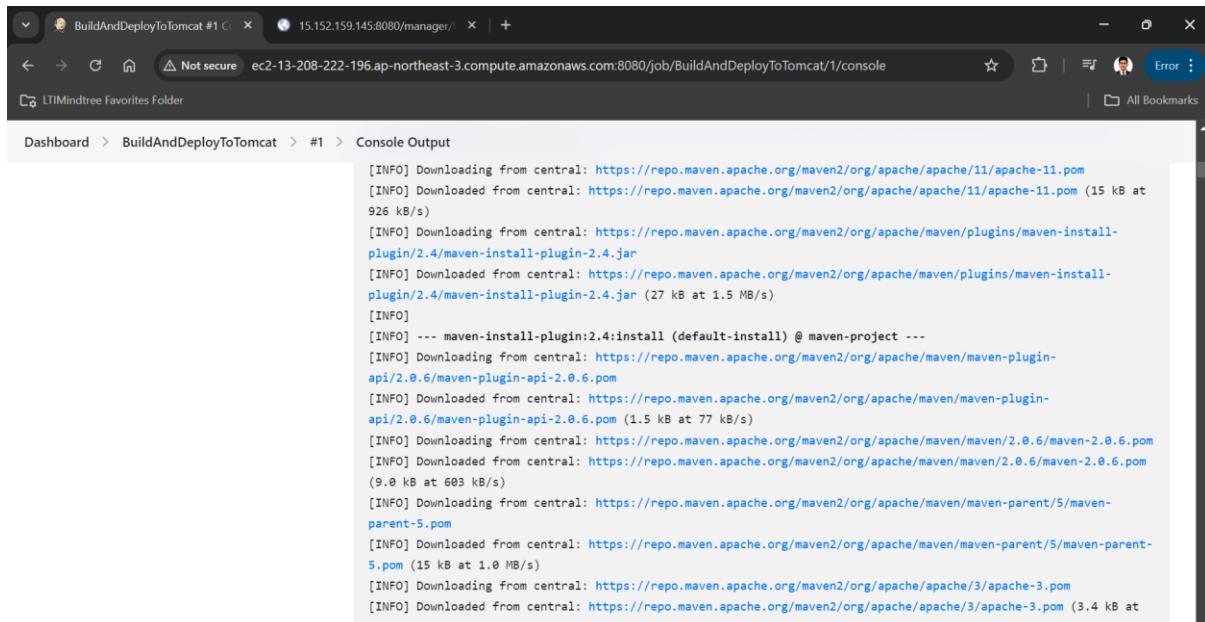
- The left sidebar shows the same navigation options.
- The main panel is titled 'Post-build Actions'.
- A section titled 'Deploy war/ear to a container' is expanded.
- Under 'WAR/EAR files', the input field contains '**/*.war'.
- Under 'Context path', the input field is empty.
- Under 'Containers', a section titled 'Tomcat 8.x Remote' is expanded.
- Under 'Tomcat 8.x Remote', a 'Credentials' dropdown is shown.
- At the bottom are 'Save' and 'Apply' buttons.

The screenshot shows the Jenkins configuration page for a job named "BuildAndDeployToTomcat". Under the "Configuration" section, there is a "Containers" panel for "Tomcat 8.x Remote". It includes fields for "Credentials" (set to "deployer/******** (manager-script)") and "Tomcat URL" (set to "http://15.152.159.145:8080"). There is also an "Advanced" dropdown and a "Add Container" button.

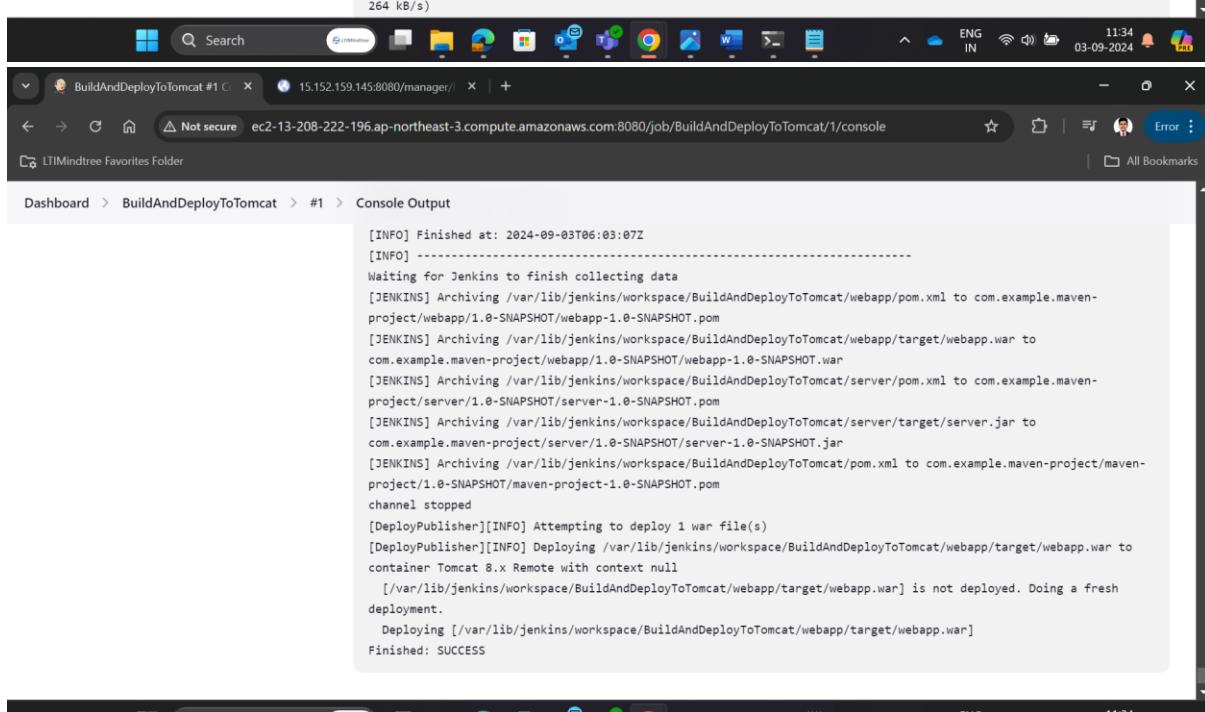
We have successfully deployed project on tomcat server

The screenshot shows the Jenkins console output for build #1 of the "BuildAndDeployToTomcat" job. The output indicates a successful deployment to a Tomcat server. Key log entries include:

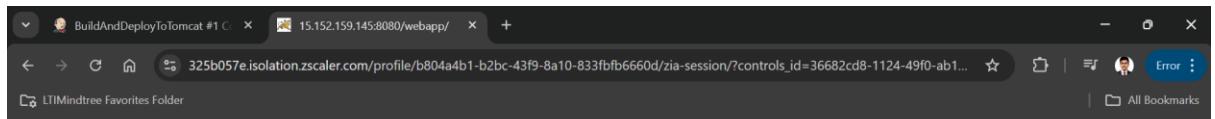
```
Started by user Vivek Kailas Nere
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/BuildAndDeployToTomcat
The recommended git tool is: NONE
using credential manager-script
Cloning the remote Git repository
  Cloning repository https://github.com/VivekNere1/Deployment.git
    > git init /var/lib/jenkins/workspace/BuildAndDeployToTomcat # timeout=10
    Fetching upstream changes from https://github.com/VivekNere1/Deployment.git
      > git --version # timeout=10
      > git --version # 'git' version 2.40.1'
      using GIT_ASKPASS to set credentials manager-script
      > git fetch --tags --force --progress -- https://github.com/VivekNere1/Deployment.git
        +refs/heads/*:refs/remotes/origin/* # timeout=10
      > git config remote.origin.url https://github.com/VivekNere1/Deployment.git # timeout=10
      > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
```



```
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/11/apache-11.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/11/apache-11.pom (15 kB at 926 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2.4.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.4/maven-install-plugin-2.4.jar (27 kB at 1.5 MB/s)
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ maven-project ---
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom (1.5 kB at 77 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven/2.0.6/maven-2.0.6.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven/2.0.6/maven-2.0.6.pom (9.0 kB at 603 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom (15 kB at 1.0 MB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom (3.4 kB at 264 kB/s)
```



```
[INFO] Finished at: 2024-09-03T06:03:07Z
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /var/lib/jenkins/workspace/BuildAndDeployToTomcat/webapp/pom.xml to com.example.maven-project/webapp/1.0-SNAPSHOT/webapp-1.0-SNAPSHOT.pom
[JENKINS] Archiving /var/lib/jenkins/workspace/BuildAndDeployToTomcat/webapp/target/webapp.war to com.example.maven-project/webapp/1.0-SNAPSHOT/webapp-1.0-SNAPSHOT.war
[JENKINS] Archiving /var/lib/jenkins/workspace/BuildAndDeployToTomcat/server/pom.xml to com.example.maven-project/server/1.0-SNAPSHOT/server-1.0-SNAPSHOT.pom
[JENKINS] Archiving /var/lib/jenkins/workspace/BuildAndDeployToTomcat/server/target/server.jar to com.example.maven-project/server/1.0-SNAPSHOT/server-1.0-SNAPSHOT.jar
[JENKINS] Archiving /var/lib/jenkins/workspace/BuildAndDeployToTomcat/pom.xml to com.example.maven-project/1.0-SNAPSHOT/maven-project-1.0-SNAPSHOT.pom
channel stopped
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying /var/lib/jenkins/workspace/BuildAndDeployToTomcat/webapp/target/webapp.war to container Tomcat 8.x Remote with context null
    [/var/lib/jenkins/workspace/BuildAndDeployToTomcat/webapp/target/webapp.war] is not deployed. Doing a fresh deployment.
        Deploying [/var/lib/jenkins/workspace/BuildAndDeployToTomcat/webapp/target/webapp.war]
Finished: SUCCESS
```



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Thank You, Happy Learning Vivek Nere

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