

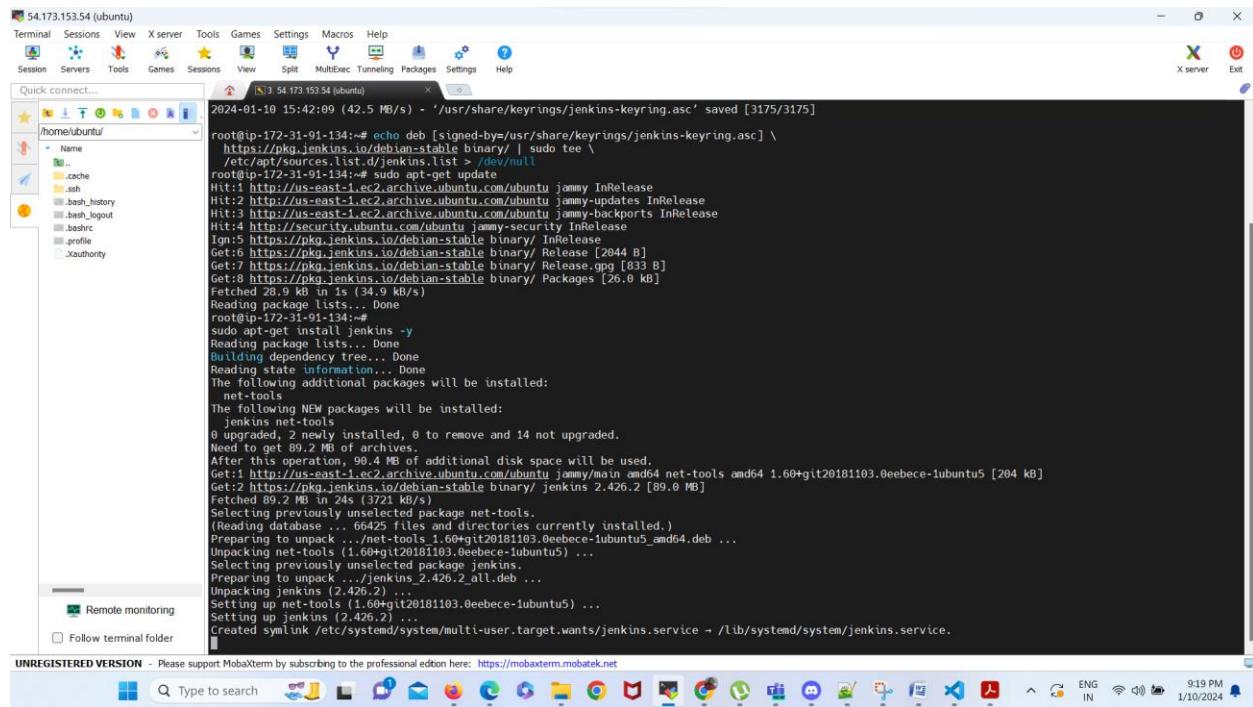
```
Last login: Tue Jan 9 05:16:35 2024 from 49.36.58.80
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

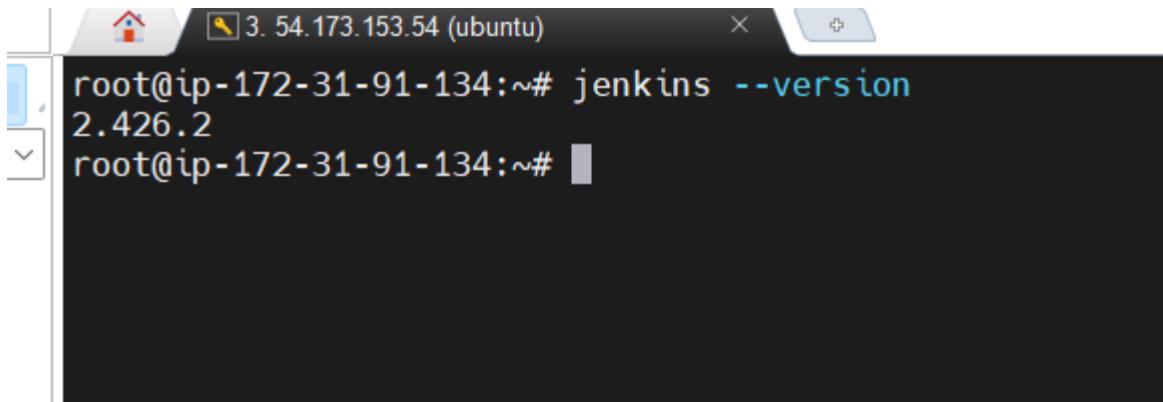
```
ubuntu@ip-172-31-91-134:~$ java --version
Command 'java' not found, but can be installed with:
sudo apt install openjdk-11-jre-headless # version 11.0.20.1+1-Ubuntu
sudo apt install default-jre          # version 2:1.11-72build2
sudo apt install openjdk-17-jre-headless # version 17.0.8.1+1~us1-Ubuntu
sudo apt install openjdk-18-jre-headless # version 18.0.2+9-2~22.04
sudo apt install openjdk-19-jre-headless # version 19.0.2+7-Ubuntu3~jammy
sudo apt install openjdk-8-jre-headless # version 8u382-ga-1~22.04.1
ubuntu@ip-172-31-91-134:~$ sudo -i
```

```
[root@ip-172-31-91-134 ~]# apt update
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1277 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [261 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1272 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [207 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1022 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [227 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.1 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.1 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.3 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1062 kB]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [201 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1242 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [203 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [824 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [156 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7476 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 28.9 MB in 5s (5293 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
5 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-91-134:~#
```

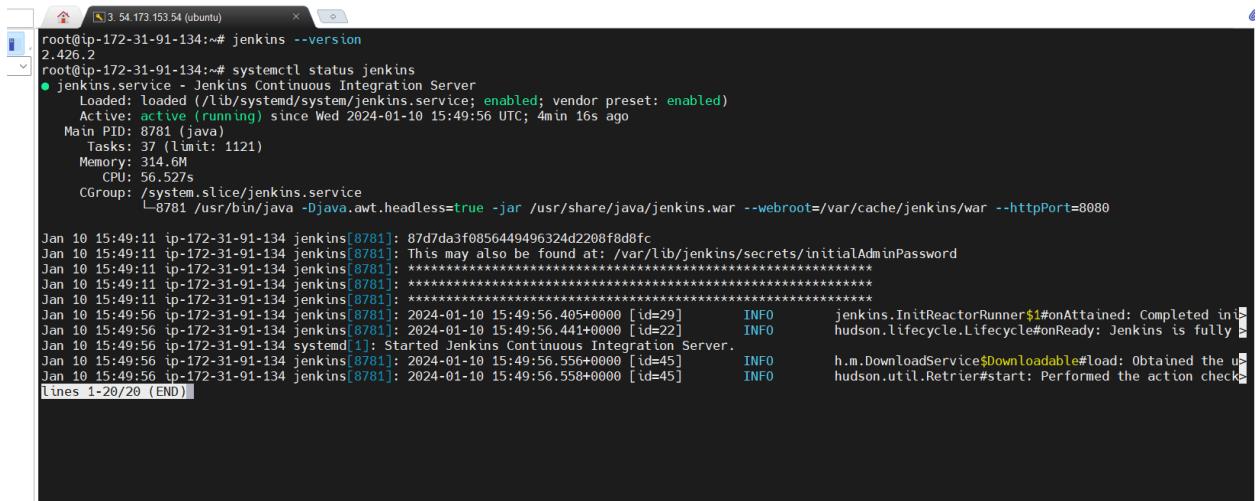
```
loading state information... Done
4 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-91-134:~# sudo apt install openjdk-11-jre -y
loading package lists... Done
building dependency tree... Done
loading state information... Done
the following additional packages will be installed:
```

```
no VM guests are running outdated hypervisors (qemu) binaries on this host.
root@ip-172-31-91-134:~# java --version
openjdk 11.0.21 2023-10-17
OpenJDK Runtime Environment (build 11.0.21+9-post-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.21+9-post-Ubuntu-0ubuntu122.04, mixed mode, shared
```



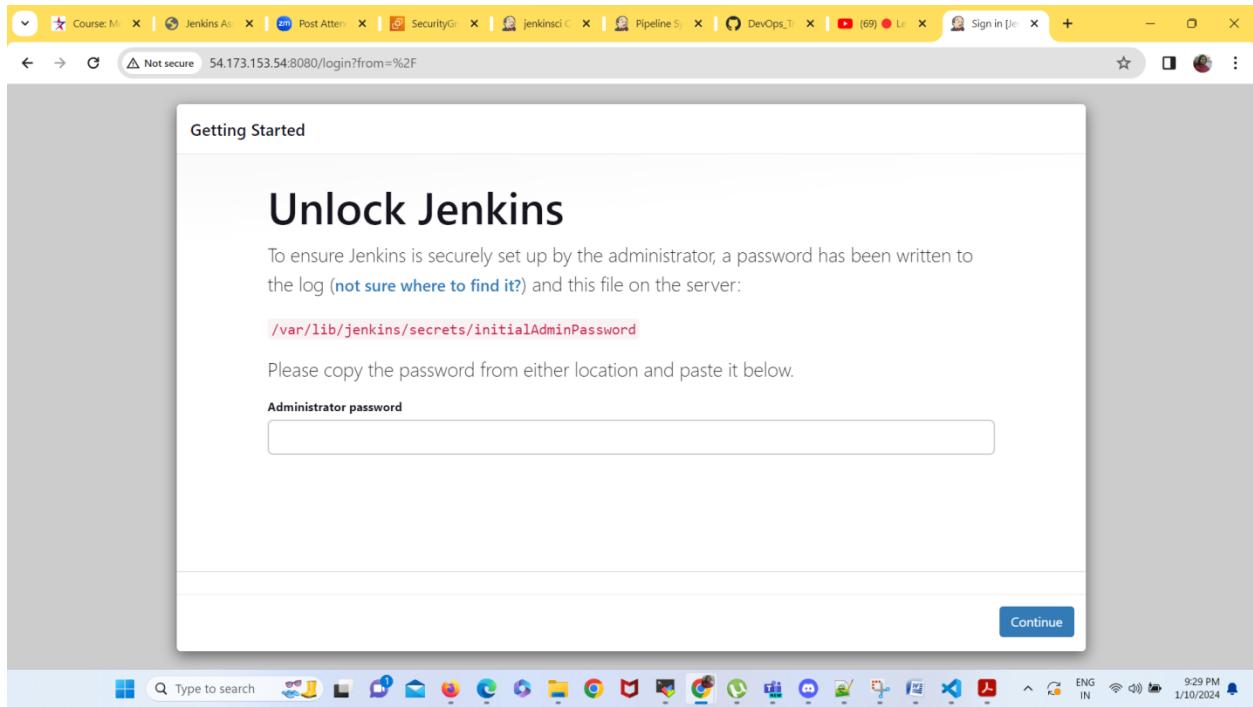


```
root@ip-172-31-91-134:~# jenkins --version
2.426.2
root@ip-172-31-91-134:~#
```



```
root@ip-172-31-91-134:~# jenkins --version
2.426.2
root@ip-172-31-91-134:~# systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-01-10 15:49:56 UTC; 4min 16s ago
     Main PID: 8781 (java)
        Tasks: 37 (limit: 1121)
       Memory: 314.6M
          CPU: 56.527s
        CGroup: /system.slice/jenkins.service
                └─8781 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Jan 10 15:49:11 ip-172-31-91-134 jenkins[8781]: 87d7da3f0856449496324d2208f8d8fc
Jan 10 15:49:11 ip-172-31-91-134 jenkins[8781]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Jan 10 15:49:11 ip-172-31-91-134 jenkins[8781]: ****
Jan 10 15:49:56 ip-172-31-91-134 jenkins[8781]: 2024-01-10 15:49:56.405+0000 [id=20]      INFO      jenkins.InitReactorRunner$1#onAttained: Completed initial reactor initialization
Jan 10 15:49:56 ip-172-31-91-134 jenkins[8781]: 2024-01-10 15:49:56.441+0000 [id=22]      INFO      hudson.lifecycle.Lifecycle#onReady: Jenkins is fully initialized
Jan 10 15:49:56 ip-172-31-91-134 systemd[1]: Started Jenkins Continuous Integration Server.
Jan 10 15:49:56 ip-172-31-91-134 jenkins[8781]: 2024-01-10 15:49:56.556+0000 [id=45]      INFO      h.m.DownloadService$Downloadable#load: Obtained the latest update
Jan 10 15:49:56 ip-172-31-91-134 jenkins[8781]: 2024-01-10 15:49:56.558+0000 [id=45]      INFO      hudson.util.Retriger#start: Performed the action check
(Lines 1-20/20 (END))
```



The screenshot shows a terminal window with two tabs. Tab 3 is titled '3. 54.173.153.54 (ubuntu)' and shows a root shell. Tab 4 is titled '4. /home/mobaxterm' and shows a user shell. In the root shell, the command 'cd /var/lib/jenkins/secrets' is run, followed by 'ls' which lists files: 'initialAdminPassword', 'jenkins.model.Jenkins.crumbSalt', and 'master.key'. Then 'cd initialAdminPassword' is run, resulting in an error message: '-bash: cd: initialAdminpassword: No such file or directory'. Finally, 'cat initialAdminPassword' is run, displaying the password '87d7da3f0856449496324d2208f8d8fc'. The user shell shows the password has been copied to the clipboard.

```
root@ip-172-31-91-134:~# cd /var/lib/jenkins/secrets
root@ip-172-31-91-134:/var/lib/jenkins/secrets# ls
initialAdminPassword jenkins.model.Jenkins.crumbSalt master.key
root@ip-172-31-91-134:/var/lib/jenkins/secrets# cd initialAdminpassword
-bash: cd: initialAdminpassword: No such file or directory
root@ip-172-31-91-134:/var/lib/jenkins/secrets# ls
initialAdminPassword jenkins.model.Jenkins.crumbSalt master.key
root@ip-172-31-91-134:/var/lib/jenkins/secrets# cat initialAdminPassword
87d7da3f0856449496324d2208f8d8fc
root@ip-172-31-91-134:/var/lib/jenkins/secrets#
```

The screenshot shows a Windows desktop environment with a browser window open to the Jenkins 'Unlock Jenkins' setup page. The URL in the address bar is `54.173.153.54:8080/login?from=%2F`. The page title is 'Getting Started' and features a large heading 'Unlock Jenkins'. It instructs the user to copy the password from a log file or a file on the server, specifically mentioning `/var/lib/jenkins/secrets/initialAdminPassword`. Below this is a text input field labeled 'Administrator password' containing a redacted password. A 'Continue' button is at the bottom right of the form.

The screenshot shows a Windows desktop environment with a browser window open to the Jenkins 'Customize Jenkins' setup page. The URL in the address bar is `54.173.153.54:8080`. The page title is 'Getting Started'. It features a large heading 'Customize Jenkins' and a sub-instruction: 'Plugins extend Jenkins with additional features to support many different needs.' Two main options are presented in boxes: 'Install suggested plugins' (blue box) and 'Select plugins to install' (grey box). Both boxes contain descriptive text: 'Install plugins the Jenkins community finds most useful.' and 'Select and install plugins most suitable for your needs.' At the bottom left, it says 'Jenkins 2.426.2'. The system tray at the bottom shows the date as 1/10/2024 and the time as 9:36 PM.

Course: M | Jenkins All | Post Attri... | Security... | jenkinsci | Pipeline S... | DevOps_... | (69) | New Item | +

Not secure 54.173.153.54:8080/view/all/newJob

Dashboard > All >

Enter an item name

first_job
» Required field

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

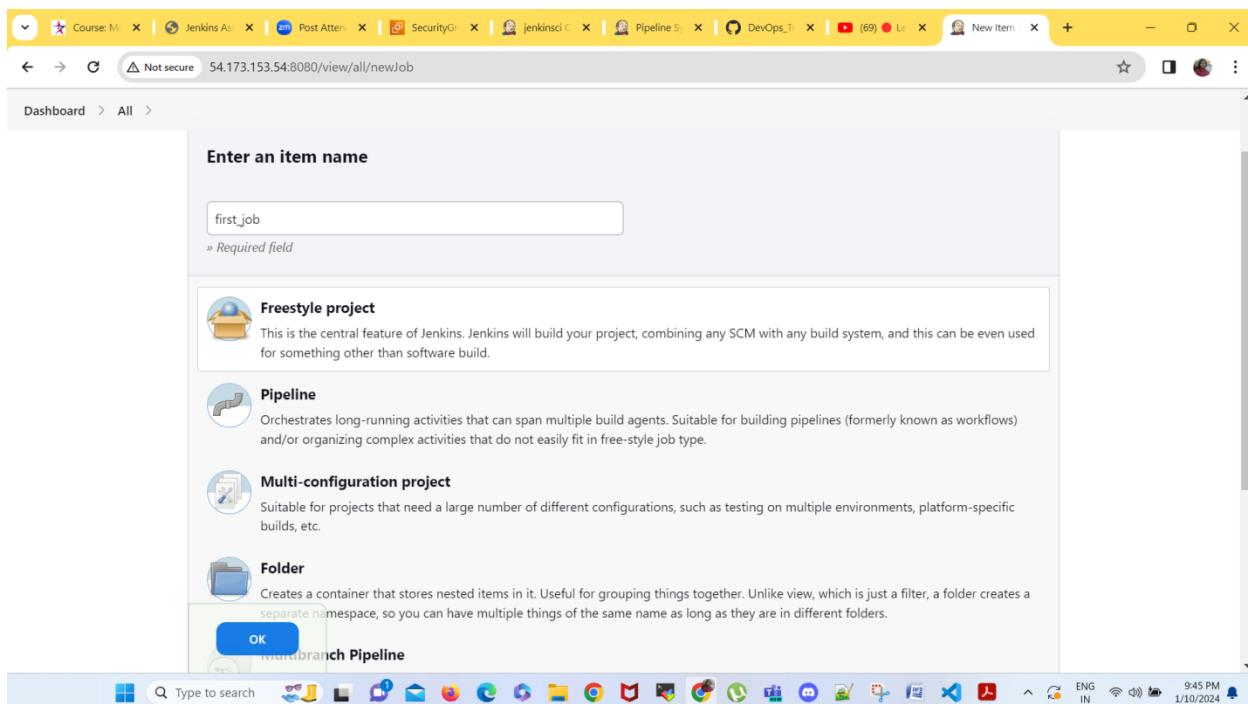
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

OK

Manbranch Pipeline



SA2310 | Jenkins | Post Attri... | Security... | jenkinsci | Pipeline S... | DevOps_... | (69) | first_job | project | +

Not secure 54.173.153.54:8080/job/first_job/configure

Dashboard > first_job > Configuration

Configure

General

Description
job to build and deploy

Plain text [Preview](#)

Discard old builds ?

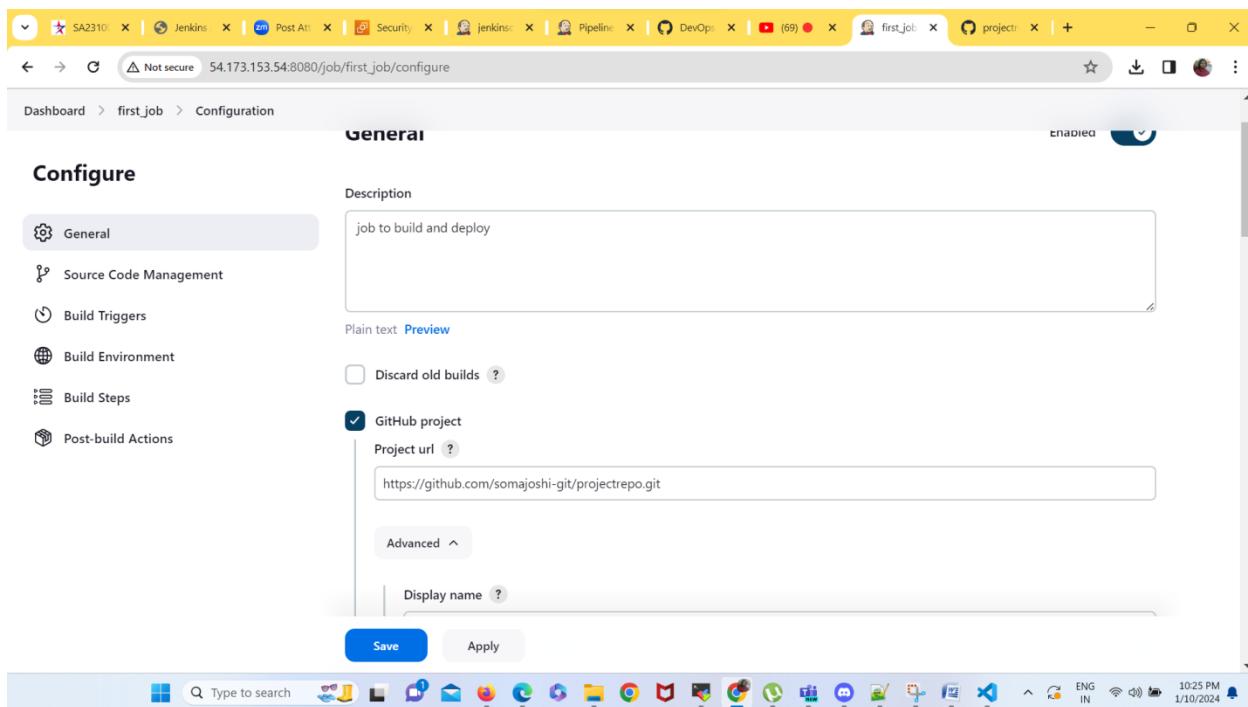
GitHub project

Project url ?
<https://github.com/somajoshi-git/projectrepo.git>

Advanced ^

Display name ?

Save **Apply**



Screenshot of the Jenkins job configuration page for 'first_job'.

The top navigation bar shows multiple tabs, including 'SA2310', 'Jenkins', 'Post At...', 'Security', 'jenkins', 'Pipeline', 'DevOps', 'first_job', and 'project'. The URL is 54.173.153.54:8080/job/first_job/configure.

The left sidebar menu includes 'General', 'Source Code Management', 'Build Triggers', 'Build Environment', 'Build Steps' (selected), and 'Post-build Actions'.

The main configuration area is titled 'Configure'.

Invoke top-level Maven targets

Goals: clean package

Post-build Actions: Add post-build action

Buttons: Save, Apply

The 'Build Steps' section is expanded, showing the 'Advanced' dropdown.

The 'Add build step' dropdown menu is open, listing the following options:

- Execute Windows batch command
- Execute shell
- Invoke Ant
- Invoke Gradle script
- Invoke top-level Maven targets** (selected)
- Run with timeout
- Set build status to "pending" on GitHub commit

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Repositories

Repository URL ?

https://github.com/LoksaETA/java-mvn-app2.git

Credentials ?

- none -

+ Add ▾

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

Save Apply

```
oot@ip-172-31-30-235:~# su - devopsadmin
devopsadmin@ip-172-31-30-235:~$ ls
devopsadmin@ip-172-31-30-235:~$ cd .ssh
devopsadmin@ip-172-31-30-235:~/ssh$ ls
authorized_keys  id_rsa  id_rsa.pub
devopsadmin@ip-172-31-30-235:~/ssh$ cat
```

Name [?](#)

Advanced [^](#) [Ø](#) Edited

Verbose output in console [?](#)

Credentials [?](#)

Username [?](#)

Username ?

Passphrase / Password ?

Path to key ?

Key ?

```
OGBlvzTC2vFZXEqh/WYd8r4wRmjW7H46PTHh98Bmzbv7HVVD96nQ+e6m667Cur  
1hPrM7mvtnPf/coBHxWoJKIXPo4cacZd7Yzm3hPPCVIPPJzploSzwqvWts+eY  
y+UU45JvdpkfAFo/hZECgYANaCin8UEkTT/ZCoXyQ/pgUFEbUW9lvAVdAHsNqn3  
zeVlb93MnwS/SpSXewg9hv1s5TKx7qEsOTBrRjmt+Ep6/GkHqmvJj+e5sEEAgLSQ  
ZfEHJCputxOaTff1Vm94Ep4nVJIPUDeamGKhMsMkvADSYUD4oR/4hsSCwUUrTrx  
AQKBgQDLRg71cyFfUUUpavvTkUD/NnLwbD/poze5Uer8F4WEETfcBj5+1f7IxW
```

Success

Test Configuration

```
Last login: Wed Jan 10 19:13:15 2024 from 49.36.57.110
ubuntu@ip-172-31-18-21:~$ sudo -i
root@ip-172-31-18-21:~# ls
snap
root@ip-172-31-18-21:~# cd /var/
root@ip-172-31-18-21:/var# ls
backups cache crash lib local lock log mail opt run snap spool tmp
root@ip-172-31-18-21:/var# cd lib
root@ip-172-31-18-21:/var/lib# ls
AccountsService boltd      dpkg      initramfs-tools misc      private      systemd      udisks2
PackageKit   cloud        fwupd      jenkins    os-prober  python      tpm
amazon       command-not-found git      landscape  pam       shim-signed  ubuntu-advantage update-manage
apport        dbus        grub      logrotate  plymouth  snapd      ubuntu-release-upgrader update-noti
apt          dhcp        hibernate-agent man-db    polkit-1  sudo       ucf
root@ip-172-31-18-21:/var/lib# cd jenkins/
root@ip-172-31-18-21:/var/lib/jenkins# ls
com.cloudbees.hudson.plugins.folder.config.AbstractFolderConfiguration.xml
config.xml
credentials.xml
fingerprints
github-plugin-configuration.xml
hudson.model.UpdateCenter.xml
hudson.plugins.build_timeout.global.GlobalTimeOutConfiguration.xml
hudson.plugins.build_timeout.operations.BuildStepOperation.xml
hudson.plugins.emaiilext.ExtendedEmailPublisher.xml
hudson.plugins.git.GitSCM.xml
hudson.plugins.git.GitTool.xml
hudson.plugins.gradle.enriched.EnrichedSummaryConfig.xml
hudson.plugins.gradle.injection.InjectionConfig.xml
hudson.plugins.timestamp.TimestamperConfig.xml
```

```
workspace
root@ip-172-31-18-21:/var/lib/jenkins# cd workspace/
root@ip-172-31-18-21:/var/lib/jenkins/workspace# ls
demo  first_job  gitjob 'this is demo'
root@ip-172-31-18-21:/var/lib/jenkins/workspace# cd first_job/
root@ip-172-31-18-21:/var/lib/jenkins/workspace/first_job# ls
Dockerfile Jenkinsfile LICENSE Notes.txt README.md bin k8smvndeployment.yaml nodePort.yaml
root@ip-172-31-18-21:/var/lib/jenkins/workspace/first_job# cd target/
root@ip-172-31-18-21:/var/lib/jenkins/workspace/first_job/target# ls
generated-test-sources maven-archiver maven-status mvn-hello-world mvn-hello-world.war surefire-report
root@ip-172-31-18-21:/var/lib/jenkins/workspace/first_job/target# pwd
/var/lib/jenkins/workspace/first_job/target
root@ip-172-31-18-21:/var/lib/jenkins/workspace/first_job/target#
```

SAA | Jeni | Post | Inst | jeni | YouTube (70) | pro | Lok | jeni | first | first | first | Sys | first | first | 54 | Dev | +

Not secure 54.197.182.129:8080/job/first_job/configure

Dashboard > first_job > Configuration

Configure

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

Name ? Tomcat-Server Advanced Edited

Transfers

Transfer Set

Source files ? target/mvn-hello-world.war

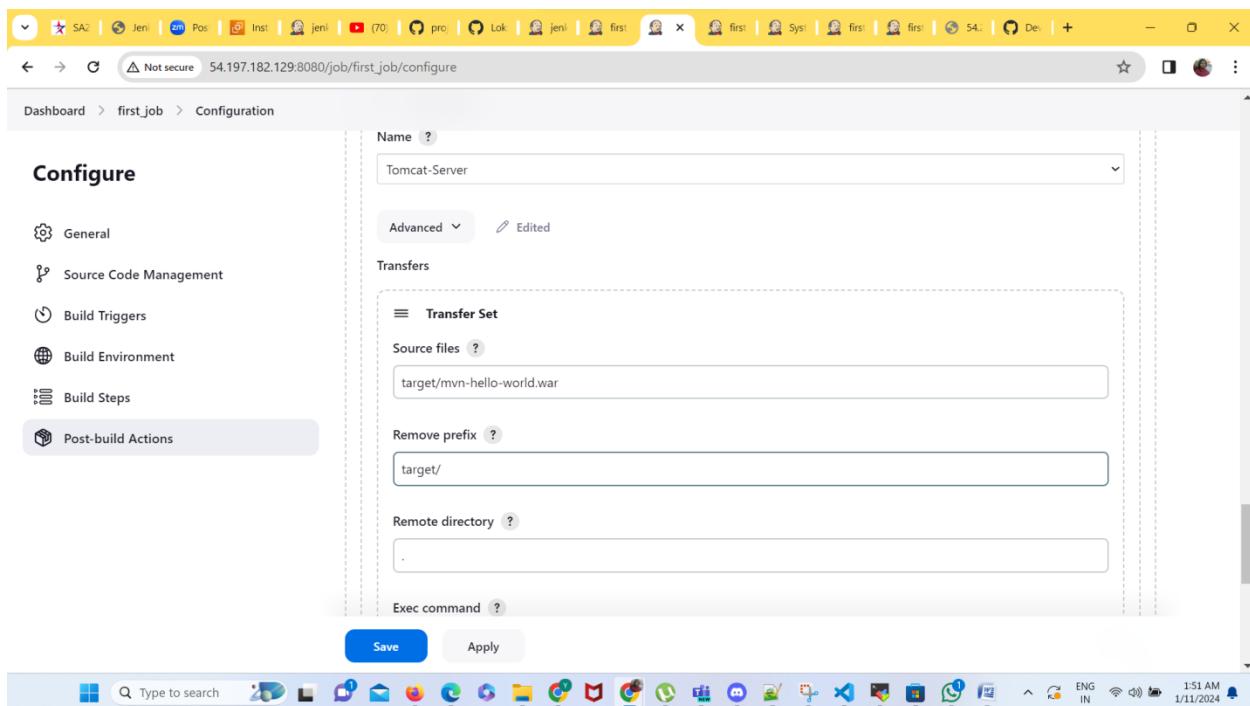
Remove prefix ? target/

Remote directory ? .

Exec command ?

Save **Apply**

Type to search ENG IN 1:51 AM 1/11/2024



SAA | Jeni | Post | Inst | jeni | YouTube (70) | pro | Lok | jeni | first | first | first | Sys | first | first | 54 | Dev | +

Not secure 54.197.182.129:8080/job/first_job/configure

Dashboard > first_job > Configuration

Configure

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

All of the transfer fields (except for Exec timeout) support substitution of [Jenkins environment variables](#)

Advanced

Add Transfer Set

Add Server

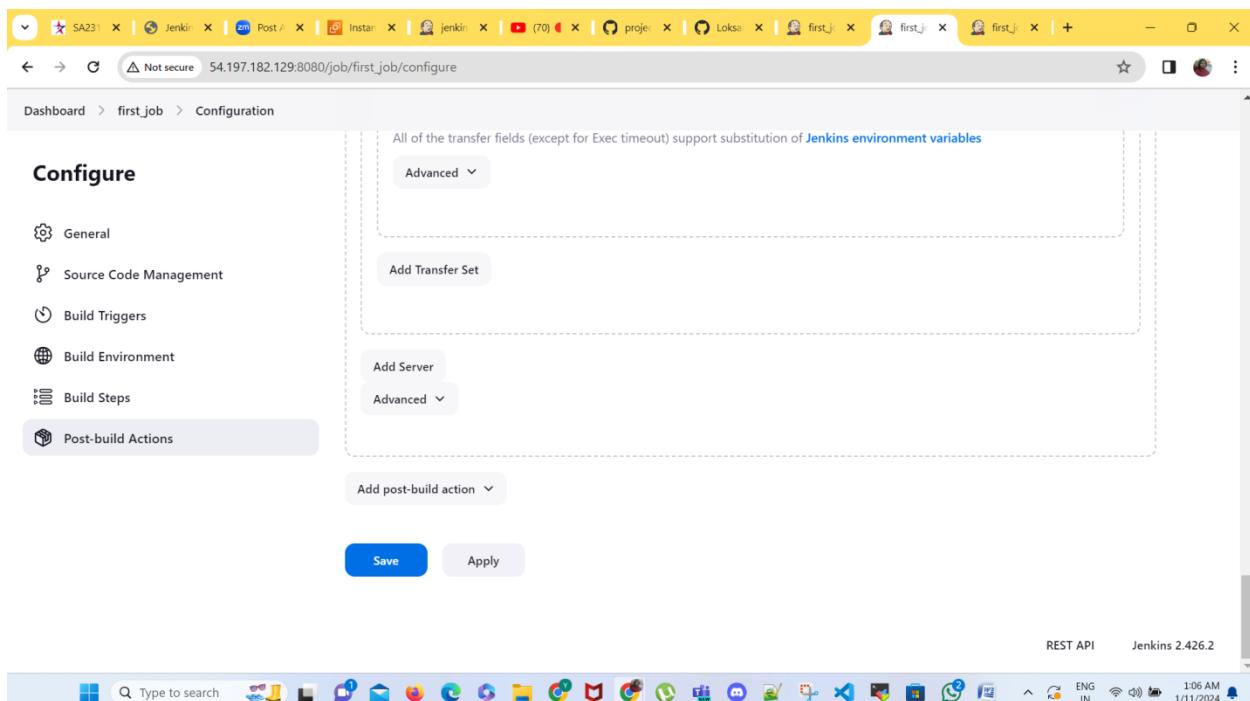
Advanced

Add post-build action ▾

Save **Apply**

REST API Jenkins 2.426.2

Type to search ENG IN 1:06 AM 1/11/2024



 Jenkins

Search (

Dashboard > first_job >

 Status  first_job

 Changes bnmnm,

 Workspace

 Build Now

 Configure

 Delete Project

 Rename

 Build History trend ▾

 Filter builds... /

 #6 10 Jan 2024, 19:30

Permalinks

- Last build (#6), 6 min 17 sec ago
- Last stable build (#6), 6 min 17 sec ago
- Last successful build (#6), 6 min 17 sec ago
- Last failed build (#4), 20 min ago
- Last unsuccessful build (#4), 20 min ago
- Last completed build (#6), 6 min 17 sec ago

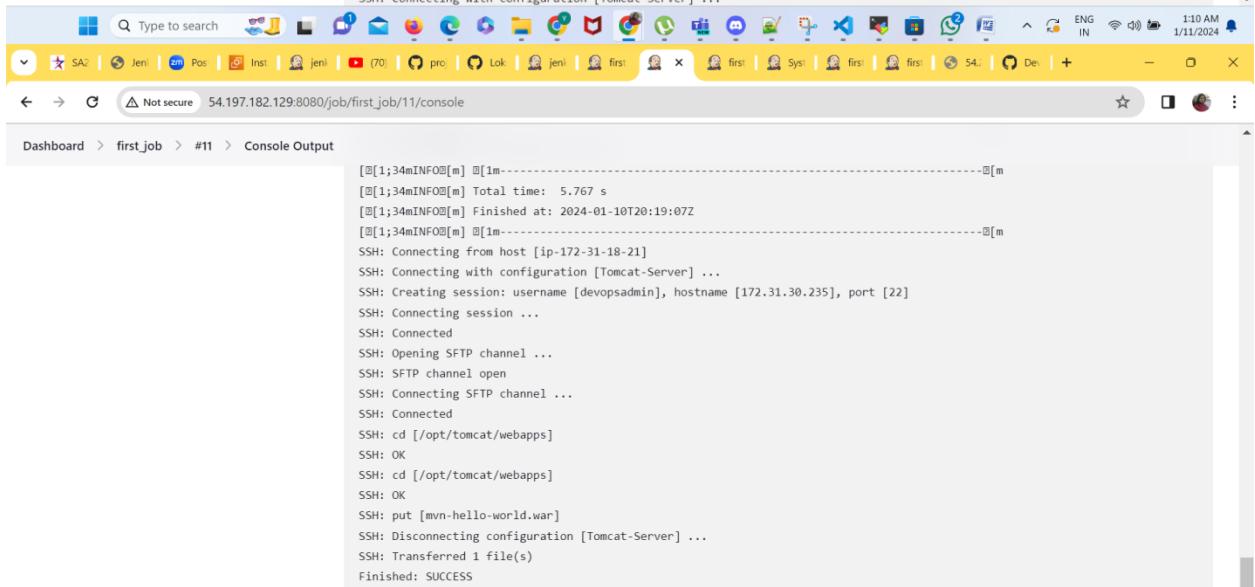
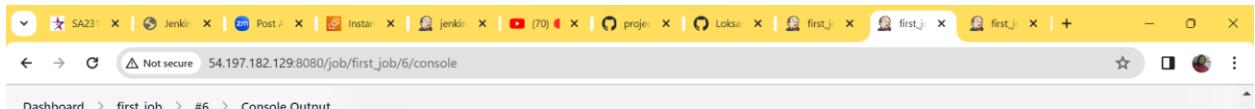
The screenshot shows a web browser window with multiple tabs open. The active tab is 'Console Output' for Jenkins job 'first_job' (build #6). The page title is 'Console Output' with a checkmark icon. On the left, there's a sidebar with links: Status, Changes, Console Output (which is selected and highlighted in grey), View as plain text, Edit Build Information, Delete build '#6', Git Build Data, and Previous Build.

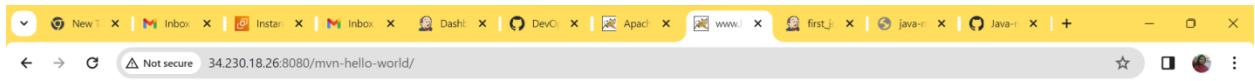
```
Started by user soma
Running as SYSTEM
Building on the built-in node in workspace /var/lib/jenkins/workspace/first_job
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/first_job/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/LoksaETA/Java-mvn-app2.git # timeout=10
Fetching upstream changes from https://github.com/LoksaETA/Java-mvn-app2.git
> git --version # timeout=10
> git --version # 'git version 2.25.1'
> git fetch --tags --force --progress -- https://github.com/LoksaETA/Java-mvn-app2.git +refs/heads/*:refs/remotes/origin/*
# timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision cc7fbbeda03fee2b497ec839bfffad2163e5d246d (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f cc7fbbeda03fee2b497ec839bfffad2163e5d246d # timeout=10
Commit message: "Update index.jsp"
> git rev-list --no-walk cc7fbbeda03fee2b497ec839bfffad2163e5d246d # timeout=10
[first_job] $ mvn clean package
[@[1;34mINFO@[] Scanning for projects...
[@[1;34mINFO@[]
```

Not secure 54.197.182.129:8080/job/first_job/6/console

Dashboard > first_job > #6 > Console Output

```
[1;34mINFO[m] [1m-----< [0;36mcom.dev3l.hello_world:mvn-hello-world@;1m -----[m
[1;34mINFO[m] [1mBuilding mvn-hello-world Maven Webapp 1.0-SNAPSHOT@m
[1;34mINFO[m] [1m-----[ war ]-----[m
[1;34mINFO[m] [1m--- [0;32mmaven-clean-plugin:2.5:clean@m [1m(default-clean)@m @ [36mmvn-hello-world@;1m --@[m
[1;34mINFO[m] Deleting /var/lib/jenkins/workspace/first_job/target
[1;34mINFO[m] [1m--- [0;32mmaven-resources-plugin:2.6:resources@m [1m(default-resources)@m @ [36mmvn-hello-world@;1m ---@[m
[1;33mWARNING[m] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[1;34mINFO[m] skip non existing resourceDirectory /var/lib/jenkins/workspace/first_job/src/main/resources
[1;34mINFO[m]
[1;34mINFO[m] [1m--- [0;32mmaven-compiler-plugin:3.1:compile@m [1m(default-compile)@m @ [36mmvn-hello-world@;1m --@[m
[1;34mINFO[m] No sources to compile
[1;34mINFO[m]
[1;34mINFO[m] [1m--- [0;32mmaven-resources-plugin:2.6:testResources@m [1m(default-testResources)@m @ [36mmvn-hello-world@;1m ---@[m
[1;33mWARNING[m] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[1;34mINFO[m] Copying 1 resource
[1;34mINFO[m]
[1;34mINFO[m] [1m--- [0;32mmaven-compiler-plugin:3.1:testCompile@m [1m(default-testCompile)@m @ [36mmvn-hello-world@;1m ---@[m
[1;34mINFO[m] Changes detected - recompiling the module!
[1;33mWARNING[m] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!
```





Hello Everyone

My Web App - SA - Nov 16 - POLLSCM demo..



Assignment -2

| Find instance by attribute or tag (case-insensitive) | | | | | | | | |
|--|----------------|---------------------|----------------------|---------------|---------------------------|-----------------------------|--------------|---|
| | Name ↗ | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability | ⋮ |
| <input type="checkbox"/> | jenkins-master | i-0cd95b26828114938 | Running | t2.micro | Initializing | View alarms | us-east-1b | |
| <input type="checkbox"/> | test server | i-012d3e394e4f83465 | Stopped | t2.micro | - | View alarms | us-east-1c | |



54.157.20.122 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...



/home/ubuntu/

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .Xauthority



Remote monitoring
 Follow terminal folder



16. 54.157.20.122 (ubuntu)

```
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-  
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRe  
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/  
Get:29 http://security.ubuntu.com/ubuntu jammy-security/ma  
Get:30 http://security.ubuntu.com/ubuntu jammy-security/ma  
Get:31 http://security.ubuntu.com/ubuntu jammy-security/res  
Get:32 http://security.ubuntu.com/ubuntu jammy-security/res  
Get:33 http://security.ubuntu.com/ubuntu jammy-security/un  
Get:34 http://security.ubuntu.com/ubuntu jammy-security/un  
Get:35 http://security.ubuntu.com/ubuntu jammy-security/un  
Get:36 http://security.ubuntu.com/ubuntu jammy-security/mul  
Get:37 http://security.ubuntu.com/ubuntu jammy-security/mul  
Get:38 http://security.ubuntu.com/ubuntu jammy-security/mul  
Fetched 28.9 MB in 5s (5493 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
35 packages can be upgraded. Run 'apt list --upgradable' to  
root@ip-172-31-31-127:~#
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net/>



Type to search



```
root@ip-172-31-31-127:~# sudo apt install openjdk-11-jre -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
alsa-topology-conf alsa-ucm-conf at-spi2-core ca-certificates-java dconf-

```

```
root@ip-172-31-31-127:~# java --version
openjdk 11.0.21 2023-10-17
OpenJDK Runtime Environment (build 11.0.21+9-post-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.21+9-post-Ubuntu-0ubuntu122.04, mixed mode, sharing)
root@ip-172-31-31-127:~#
```

```
root@ip-172-31-31-127:~# sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
-2024-01-11 10:16:55-- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
resolving pkg.jenkins.io (pkg.jenkins.io)... 146.75.34.133, 2a04:4e42:79::645
connecting to pkg.jenkins.io (pkg.jenkins.io)|146.75.34.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
length: 3175 (3.1K) [application/pgp-keys]
saving to: '/usr/share/keyrings/jenkins-keyring.asc'

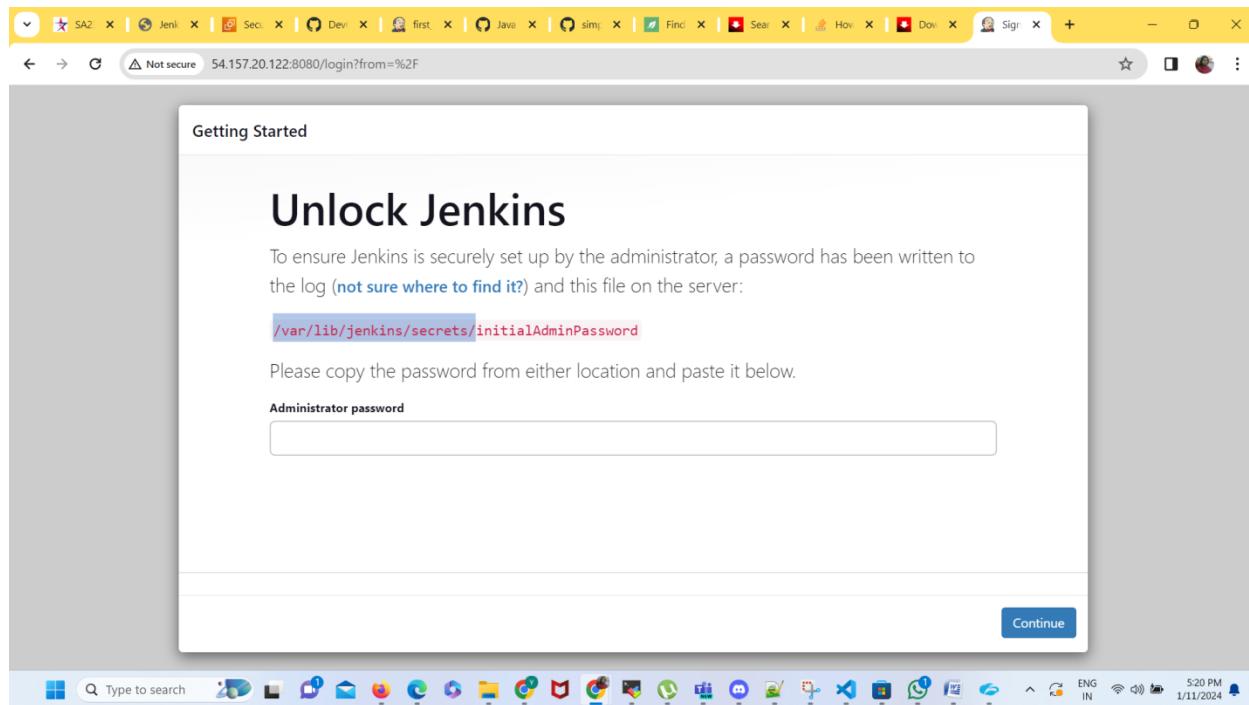
/usr/share/keyrings/jenkins-keyring.asc 100%[=====] 2024-01-11 10:16:55 (44.1 MB/s) - '/usr/share/keyrings/jenkins-keyring.asc' saved [3175/3175]
```

```
root@ip-172-31-31-127:~# echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
root@ip-172-31-31-127:~# sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:5 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:6 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:7 https://pkg.jenkins.io/debian-stable binary/ Packages [26.0 kB]
Hit:8 http://security.ubuntu.com/ubuntu jammy-security InRelease
Fetched 28.9 kB in 7s (4049 B/s)
Reading package lists... Done
root@ip-172-31-31-127:~# sudo apt-get install jenkins -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  jenkins net-tools
```

```
root@ip-172-31-31-127:~# jenkins --version
2.426.2
root@ip-172-31-31-127:~#
```

```
root@ip-172-31-31-127:~# jenkins --version
2.426.2
root@ip-172-31-31-127:~# systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2024-01-11 10:19:03 UTC; 3min 8s ago
     Main PID: 4795 (java)
        Tasks: 37 (limit: 1121)
       Memory: 304.4M
          CPU: 46.688s
        CGroup: /system.slice/jenkins.service
                └─4795 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --ht

Jan 11 10:18:27 ip-172-31-31-127 jenkins[4795]: 6630995462134bcuae06bc29043e0fd8
Jan 11 10:18:27 ip-172-31-31-127 jenkins[4795]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Jan 11 10:18:27 ip-172-31-31-127 jenkins[4795]: ****
Jan 11 10:18:27 ip-172-31-31-127 jenkins[4795]: ****
Jan 11 10:18:27 ip-172-31-31-127 jenkins[4795]: ****
Jan 11 10:18:27 ip-172-31-31-127 jenkins[4795]: 2024-01-11 10:19:03.130+0000 [id=30]           INFO      jenkins.InitReactorRunner
Jan 11 10:19:03 ip-172-31-31-127 jenkins[4795]: 2024-01-11 10:19:03.158+0000 [id=22]           INFO      hudson.lifecycle.Lifecycle
Jan 11 10:19:03 ip-172-31-31-127 systemd[1]: Started Jenkins Continuous Integration Server.
Jan 11 10:19:03 ip-172-31-31-127 jenkins[4795]: 2024-01-11 10:19:03.290+0000 [id=45]           INFO      h.m.DownloadService$Downl
Jan 11 10:19:03 ip-172-31-31-127 jenkins[4795]: 2024-01-11 10:19:03.290+0000 [id=45]           INFO      hudson.util.Retrive#start
root@ip-172-31-31-127:~#
```



```
root@ip-172-31-31-127:/var/lib/jenkins/secrets# cat initialAdminPassword  
6630995462134bc当地06bc29043e0fd8  
root@ip-172-31-31-127:/var/lib/jenkins/secrets#
```

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

.....

Continue

Jenkins

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Build Queue

No builds in the queue.

Build Executor Status

1. Idle
2. Idle

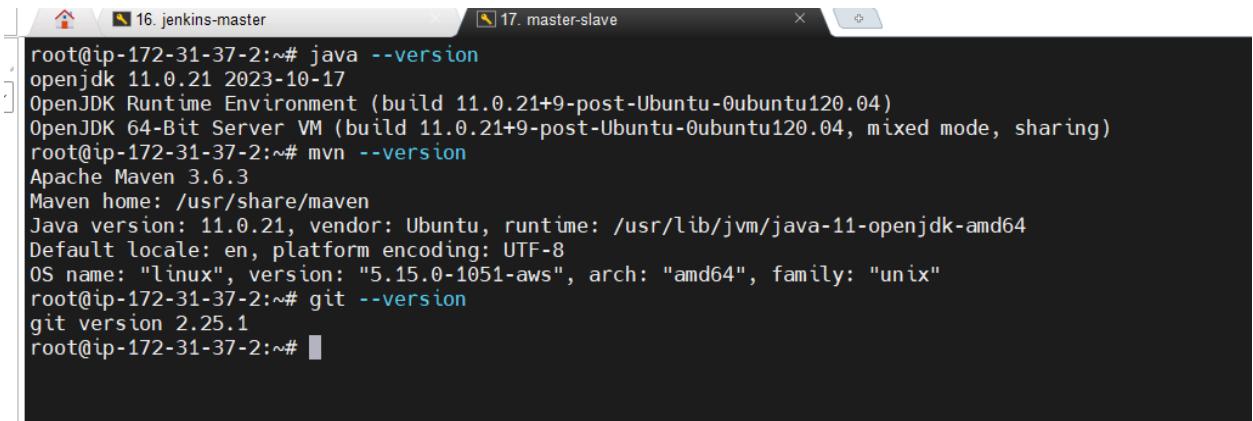
Set up a distributed build

Create a job

Set up an agent

Configure a cloud

Learn more about distributed builds



The screenshot shows a terminal window with two tabs: "16. jenkins-master" and "17. master-slave". The "17. master-slave" tab is active and displays the following command-line output:

```
root@ip-172-31-37-2:~# java --version
openjdk 11.0.21 2023-10-17
OpenJDK Runtime Environment (build 11.0.21+9-post-Ubuntu-0ubuntu120.04)
OpenJDK 64-Bit Server VM (build 11.0.21+9-post-Ubuntu-0ubuntu120.04, mixed mode, sharing)
root@ip-172-31-37-2:~# mvn --version
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.21, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.15.0-1051-aws", arch: "amd64", family: "unix"
root@ip-172-31-37-2:~# git --version
git version 2.25.1
root@ip-172-31-37-2:~#
```

master-slave

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

6. master-slave

```
ubuntu@ip-172-31-37-91:~$ sudo -i
root@ip-172-31-37-91:~# su - jenkins_node
jenkins_node@ip-172-31-37-91:~$ ls
jenkins_node@ip-172-31-37-91:~$ ssh-keygen -t rsa -b 2048 -
Generating public/private rsa key pair.
Enter file in which to save the key (/home/jenkins_node/.ssh/id_rsa):
Created directory '/home/jenkins_node/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/jenkins_node/.ssh/id_rsa.
Your public key has been saved in /home/jenkins_node/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:+21zsrsxrQJ5eU0v6krJV+Mx6knRI7dr6FbGLrT3nj8 jenkins_
The key's randomart image is:
+---[RSA 2048]---+
| . . .
| S.o+0.
| .oo+B*B.
| =++B=o.
| . =*o0=.E |
| .=BBBX+.o|
+---[SHA256]---+
jenkins_node@ip-172-31-37-91:~$ cd .ssh
jenkins_node@ip-172-31-37-91:~/ssh$ ls
id_rsa id_rsa.pub
jenkins_node@ip-172-31-37-91:~/ssh$ cat id_rsa.pub > authorized_keys
jenkins_node@ip-172-31-37-91:~/ssh$ ls
authorized_keys id_rsa id_rsa.pub
jenkins_node@ip-172-31-37-91:~/ssh$
Network error: Software caused connection abort
```

Session stopped

- Press **<Return>** to exit tab
- Press **R** to restart session
- Press **S** to save terminal output to file

Authenticating with public key "Imported-OpenSSH-Key"

Remote monitoring
 Follow terminal folder

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net/>



Type to search



```
Last login: Fri Jan 12 12:19:27 2024 from
ubuntu@ip-172-31-37-91:~$ sudo -i
root@ip-172-31-37-91:~# su - jenkins_node
jenkins_node@ip-172-31-37-91:~$ cd .ssh
jenkins_node@ip-172-31-37-91:~/ssh$ ls
authorized_keys  id_rsa  id_rsa.pub
```

```
jenkins_node@ip-172-31-37-91:~$ cd .ssh
jenkins_node@ip-172-31-37-91:~/ssh$ chown -R jenkins_node /home/jenkins_node/.ssh
jenkins_node@ip-172-31-37-91:~/ssh$ chmod 600 /home/jenkins_node/.ssh/authorized_keys
jenkins_node@ip-172-31-37-91:~/ssh$ chmod 700 /home/jenkins_node/.ssh
jenkins_node@ip-172-31-37-91:~/ssh$
```

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is 'Manage Jenkins' at the URL '3.85.144.203:8080/manage/'. The page title is 'Jenkins'. On the left, there's a sidebar with links: '+ New Item', 'People', 'Build History', 'Project Relationship', 'Check File Fingerprint', 'Manage Jenkins' (which is currently selected), and 'My Views'. The main content area has a heading 'Manage Jenkins'. It features several informational boxes: one about building on the built-in node being a security issue; another about Java 11 end-of-life; and a third about Jenkins running on Java 11. Below these are sections for 'System Configuration' (with 'System', 'Tools', and 'Plugins' sub-links), 'Build Queue' (showing 'No builds in the queue'), 'Build Executor Status' (with 'Built-In Node' link), and a system tray at the bottom.

Nodes [Jer] x Inbox (18,44) x Instance x Inbox (18,44) x Dashboard x

← → ⌂ Not secure 3.85.144.203:8080/manage/computer/

Jenkins

Dashboard > Manage Jenkins > Nodes >

Nodes Clouds

Nodes

| S | Name ↓ | Architecture |
|---|---------------|--------------|
| | Built-In Node | Linux (4) |

Build Queue
No builds in the queue.

Build Executor Status
1 Idle
2 Idle

3.85.144.203:8080/manage/computer/new

Type to search

The screenshot shows a web browser window with the address bar displaying 'Not secure 3.85.144.203:8080/manage/computer/new'. The main content is the Jenkins 'New node' configuration page. The 'Node name' field contains 'jenkins_node'. The 'Type' section has a radio button selected for 'Permanent Agent', with a descriptive text explaining it adds a plain, permanent agent to Jenkins. A 'Create' button is at the bottom.

New node

Inbox (18+) | Instance (18+) | Dashboard | DevOps_ | www.loks | first_job C | Java-mvri | +

Not secure 3.85.144.203:8080/manage/computer/new

Jenkins

Search (CTRL+K)

somajoshi log out

Dashboard > Manage Jenkins > Nodes > New node

New node

Node name

jenkins_node

Type

Permanent Agent

Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

Create

The screenshot shows the Jenkins 'Manage Jenkins' section, specifically the 'Nodes' creation page. The URL in the browser is 3.90.35.240:8080/manage/computer/creatitem. The page has a header 'Dashboard > Manage Jenkins > Nodes >'. A search bar contains 'jenkins_nodes'. The main form fields include:

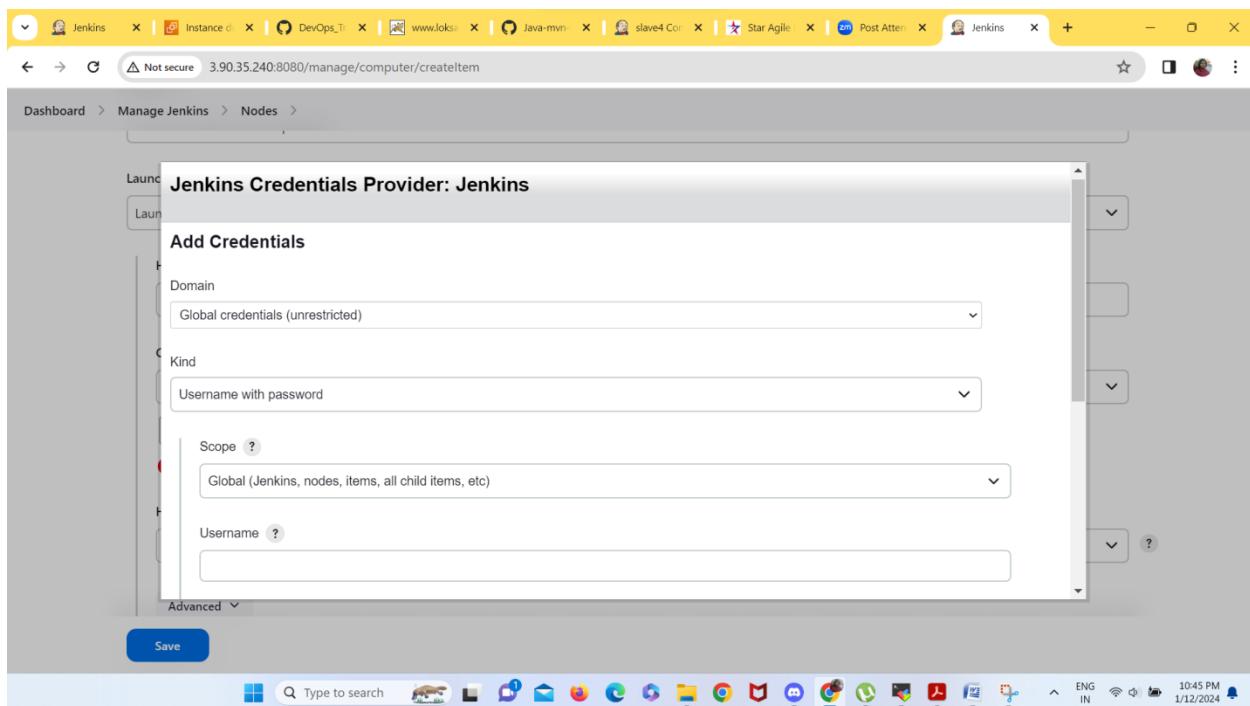
- Description**: node for test
- Number of executors**: 3
- Remote root directory**: /home/jenkins_node
- Labels**: jenkins_nodes

A blue 'Save' button is at the bottom left. The Windows taskbar at the bottom shows various pinned icons and the date/time as 10:36 PM 1/12/2024.

This screenshot shows the same Jenkins 'Create New Item' page for a new node configuration, but with different settings. The URL is the same: 3.90.35.240:8080/manage/computer/creatitem. The main form fields include:

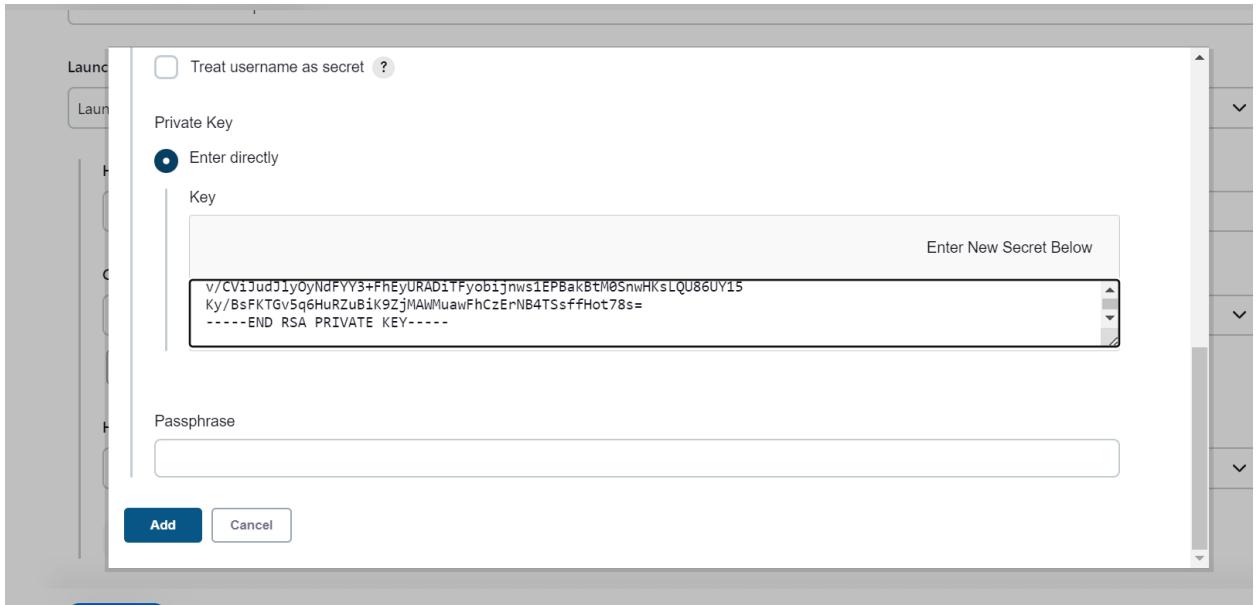
- Labels**: jenkins_node
- Usage**: Use this node as much as possible
- Launch method**: Launch agents via SSH
- Host**: 172.31.31.127
- Credentials**: - none - (with a note: + Add)

A red warning message at the bottom states: **! The selected credentials cannot be found**. A blue 'Save' button is at the bottom left. The Windows taskbar at the bottom shows various pinned icons and the date/time as 10:36 PM 1/12/2024.



```
bash: cd: .ssh: No such file or directory
jenkins_node@ip-172-31-37-91:~$ ls
jenkins_node@ip-172-31-37-91:~$ cd .ssh
jenkins_node@ip-172-31-37-91:~/ssh$ ls
authorized_keys  id_rsa  id_rsa.pub
jenkins_node@ip-172-31-37-91:~/ssh$ cat id_rsa
-----BEGIN RSA PRIVATE KEY-----
IIEogIBAAKCAQEAv1rFt84Pca0IFZRoFgZ9PJVOIt9fV/GDNR79paeGXIB0XKDp
+PxkUyqKSr/qIN0huFn2/4T6qqS098GMBHgyT4QaHtcYwrFnD0p540HGwXeqlKR
Ly60auFGjtPXKvzK9C74shM0a8rmSCIaAwo4ZHsuT6bseBk3VrAGVRm/hJWrJtB
ndPpkzCowdnpNZB+200otrLIDNUD0iszn8+na6Yq7sqmgePXD/yjyqTcF0v6Cw
ttzJ3exw01k3/LrlET5020ahViAFKansiyv/vN9J0CMYATUL8Q10BD7rF/NGgDF
WaW7S7j70gUsVtRrxuybfQ/4h9aJ+vxbk3q8wIDAQABAoIBAAD8pNxn0aisYVdL
qZGbkrssjV31XQMqNKTUFeUX5sGhmDv64T9xfc4AzKTfs+gh8r9m8qBkxFiPBS
CnfVDt1eHwdxq6EFbTSk+6/yX0YOifCuUELFWLKwar691PRBzYIoi49t3QbHIoBt
IZs2aEgMYpbCk6Gi76ggzEeQFG7IDImw3UC8UV/XhbX650Ag1Qwv5AF8nDXo2JE
Yi5kMihQC6UbaNQHgQ8HHXFfkx9E91JqtF/9Wn3s09drLCtTcSqf1AwWjv0D1Se
ETC3DgJ0c0bllxSN03Wyjvmf0/JKP06ZeK3KsvWEr6pto1DkBAr012YgkPN9K4
uIEX6ECgYEAE6IYa0mqQjzqe1Ak+fL0wk5jytKo3FfUqM1LtbVLsrlETHU9JHv4z
SexaucREcHYgN1a1SoPG5sAuyB4UG7tL0za95cLw5rDf22/gC1zS54yg/zzm5jt
Jx0AmJ048RThmqD9t0mbg19WGG6gnHyyAiFum10dCuYfx99PCD6NlsCgYEAE0qyY
7bTgfsbBq6zXVsD20upFfqGkz6rCnuFPqIbjjKL5eoJPHLTyLk/0A2eqrzDVvP
f58gIEGL2XGLGg46Rd0wYBHRIHWrlaCgTadYi68j0dAqCMPJkG6LlxkpJFY+MIo
Pd2Nb85b7hGZxfv3T5BncLhgGVLDbyy283MUkCgYBKAsU+asTwkfwUCY02LxHT
Q+3qaY2+v4fr/manpZvNacb4SypDMh/3A6AtG0ef1DmU46h4u1EICYvabph/6zG
+2WeSFpdU1cthYK0m1EWGpD0LPJhves5GTYjXYf0VJMqoKuhN3CkdCf3Rt8gcCB
xVnrZUXLPkxHVjDVsvNmQKBgAPG8mbrXTlsXhytjyuyM65V2e858aW8LubeNhJc
7ARsH5rxsSdrmx3eQGCn03K5o+ticlp+fJ6Gl7IqVzL0oI7/GKMjzpMwcnj+nX
9U1z02ba85X6pKeBQ+Fuow0yuqS2JP7990Y3RfCrwh0JmnKDvUcI+wKa2FTHuFE
jF5AoGAUUB4bswHB2cfmD80J128WqJ008ofz+u8ldz4Eyft5U1Thf5G0k7K0vjN
/CViJudJly0yNdFYY3+FhEyURADiTfyobijnws1EPBakBtM0SnwHKsLQU86UY15
y/BsFKTGv5q6HuRZuBiK9ZjMAWMuawFhCzErNB4TSsffHot78s=
-----END RSA PRIVATE KEY-----
```

```
root@ip-172-31-37-91:~# useradd jenkins_node -s /bin/bash -m -d /home/jenkins_node
```



Launch agents via SSH

Host ?
172.31.31.127

Credentials ?
jenkins_node (node for jenkins)
+ Add ▾

Host Key Verification Strategy ?
Known hosts file Verification Strategy

Host Key Verification Strategy ?
Manually trusted key Verification Strategy

| Require manual verification of initial connection ?



Availability ?

Keep this agent online as much as possible

Node Properties

Disable deferred wipeout on this node ?

Environment variables

Tool Locations

Save

The screenshot shows the Jenkins Nodes management interface. At the top, there's a navigation bar with links for Dashboard, Manage Jenkins, and Nodes. Below the navigation, there are sections for Build Queue (empty) and Build Executor Status (listing Built-In Node and jenkins_nodes). The main area is titled "Nodes" and displays a table of nodes:

| S | Name | Architecture | Clock Difference | Free Disk Space | Free Swap Space | Free Temp Space | Response Time |
|---|---------------|---------------|------------------|-----------------|-----------------|-----------------|---------------|
| 1 | Built-In Node | Linux (amd64) | In sync | 4.90 GB | 0 B | 4.90 GB | 0ms |
| 2 | jenkins_nodes | | N/A | N/A | N/A | N/A | N/A |

At the bottom right of the page, there are links for REST API and Jenkins 2.426.2. The status bar at the very bottom shows system information like ENG IN, 10:57 PM, and 1/12/2024.

Not secure 3.90.35.240:8080/computer/jenkins_nodes/saveHostKey-0/

Jenkins

Search (CTRL+K)

soma log out

Dashboard > Nodes > jenkins_nodes > Trust SSH Host Key

Status

Delete Agent

Configure

Build History

Load Statistics

Log

Trust SSH Host Key

Do you want to trust the SSH Host Key with fingerprint 17:61:78:d4:66:d1:74:2c:92:b9:10:7e:de:76:4a:0c for future connections to this host? Yes

No

Build Executor Status

Built-In Node

Idle

jenkins_nodes

Idle

Idle

Idle

Jenkins 2.426.2

Build Executor Status

Built-In Node

Idle

Idle

jenkins_nodes

Idle

Idle

Idle



Nodes

Clouds

Build Queue

No builds in the queue.

Build Executor Status

Built-In Node

Nodes

+ New Node

Node Monitoring

| S | Name | Architecture | Clock Difference | Free Disk Space | Free Swap Space | Free Temp Space | Response Time |
|---|---------------|---------------|------------------|-----------------|-----------------|-----------------|---------------|
| 1 | Built-In Node | Linux (amd64) | In sync | 4.83 GB | 1 0 B | 4.83 GB | 0ms ⚙ |
| 2 | jenkins_nodes | Linux (amd64) | In sync | 4.81 GB | 1 0 B | 4.81 GB | 36ms ⚙ |

» Required field



Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and is designed for something other than software build.



Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as流水线) and/or organizing complex activities that do not easily fit in free-style job type.



Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, builds, etc.



Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder is a separate namespace, so you can have multiple things of the same name as long as they are in different folders.



Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.

OK

Organization Folder

figure

General

Advanced Project Options

Pipeline

Pipeline

Definition

Pipeline script

```
Script ?  
1 pipeline {  
2     agent { label 'jenkins_node' }  
3  
4     stages {  
5         stage('SCM Checkout') {  
6             steps {  
7                 echo 'Perform SCM Checkout'  
8                 echo 'Perform Build'  
9                 git 'https://github.com/LoksaETA/Java-mvn-app2.git'  
10            }  
11        }  
12        stage('Maven Build') {  
13            steps {  
14                echo 'Perform Maven Build'  
15                sh "mvn clean package"  
16            }  
17        }  
18    }  
19}
```

Save Apply

Not secure 3.90.35.240:8080/job/buildtest/pipeline-syntax/

Dashboard > buildtest > Pipeline Syntax

Online Documentation Examples Reference IntelliJ IDEA GDSL

git: Git

git ?

Repository URL ?
https://github.com/LoksaETA/Java-mvn-app2.git

Branch ?
master

Credentials ?
jenkins_node (node for jenkins)

+ Add ▾

Include in polling? ?

Include in changelog? ?

Generate Pipeline Script

+ Add ▾

Include in polling? ?

Include in changelog? ?

Generate Pipeline Script

```
git credentialsId: 'jenkins', url: 'https://github.com/LoksaETA/Java-mvn-app2.git'
```

Copy

Global Variables

Not secure 3.90.35.240:8080/job/buildtest/

Dashboard > buildtest >

</> Changes build

▷ Build Now

⚙ Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Average stage times:
(Average full run time: ~21s)

#2 Jan 13 00:09 No Changes

#1 Jan 13 00:07 No Changes

Stage View

Build History

trend ▾

Filter builds... /

✓ #2 12 Jan 2024, 18:39

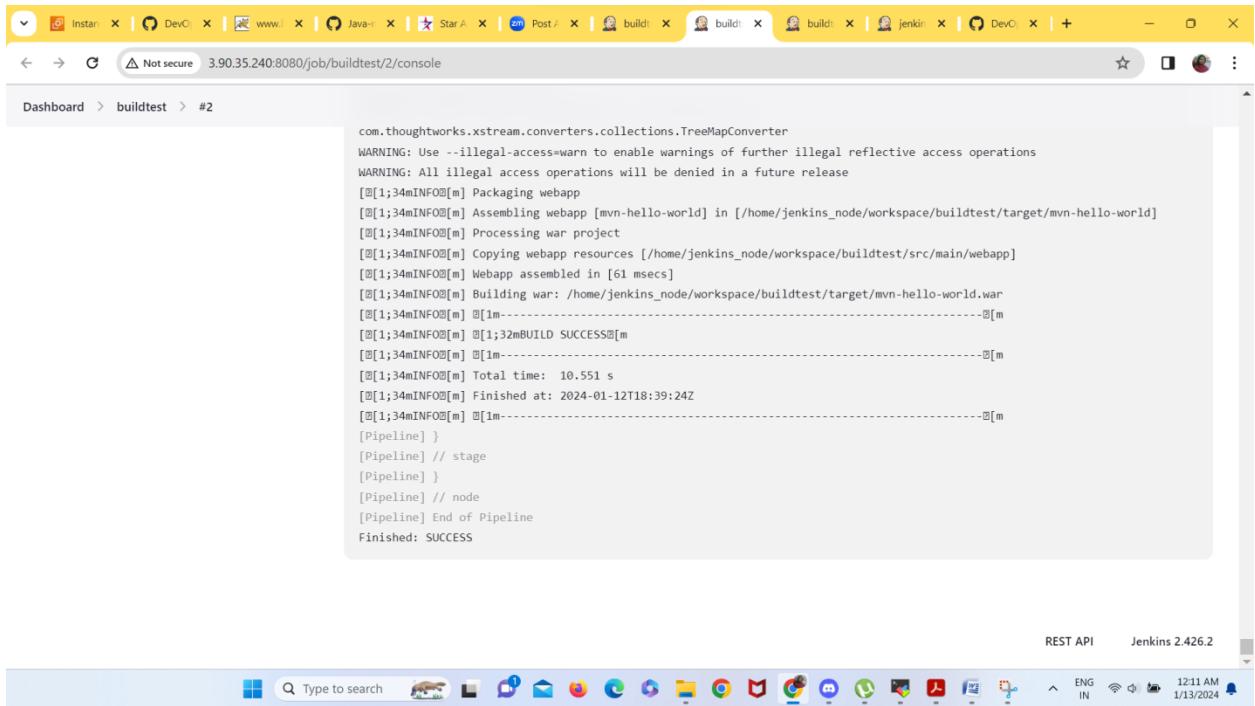
✗ #1 12 Jan 2024, 18:37

Atom feed for all Atom feed for failures

Permalinks

- Last build (#1), 1 min 57 sec ago

Type to search



The screenshot shows a web browser window with multiple tabs open. The active tab displays Jenkins build logs for job 'buildtest' (Build #2). The logs output by Maven include:

```
com.thoughtworks.xstream.converters.collections.TreeMapConverter
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[1;34mINFO[m Packaging webapp
[1;34mINFO[m Assembling webapp [mvn-hello-world] in [/home/jenkins_node/workspace/buildtest/target/mvn-hello-world]
[1;34mINFO[m Processing war project
[1;34mINFO[m Copying webapp resources [/home/jenkins_node/workspace/buildtest/src/main/webapp]
[1;34mINFO[m Webapp assembled in [61 ms]
[1;34mINFO[m Building war: /home/jenkins_node/workspace/buildtest/target/mvn-hello-world.war
[1;34mINFO[m 1m-----
[1;34mINFO[m 32mBUILD SUCCESS[m
[1;34mINFO[m 1m-----
[1;34mINFO[m Total time: 10.551 s
[1;34mINFO[m Finished at: 2024-01-12T18:39:24Z
[1;34mINFO[m 1m-----
[Pipeline]
[Pipeline] // stage
[Pipeline]
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Assingmnet-3

Enter an item name

deploytest
» Required field

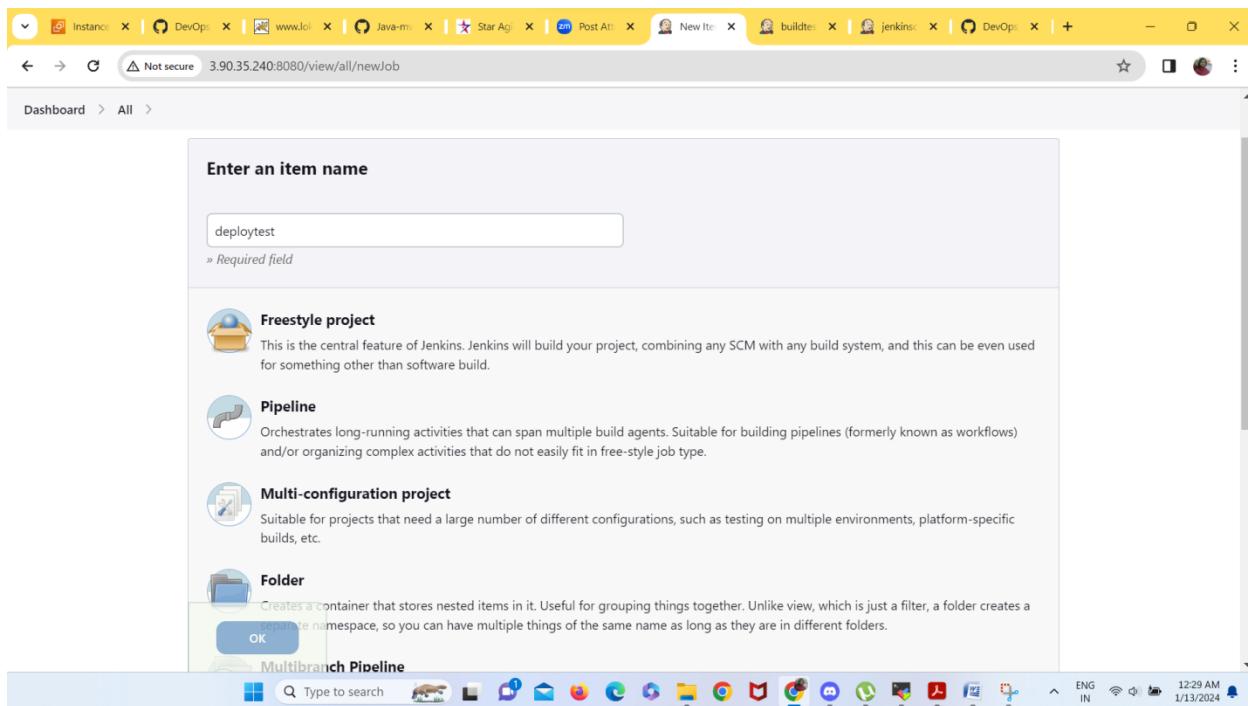
Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

Multibranch Pipeline



the documentation.

Java 11 end of life in Jenkins
You are running Jenkins on Java 11, support for which will end on or after Sep 30, 2024. Refer to [the documentation](#) for more details.

System Configuration

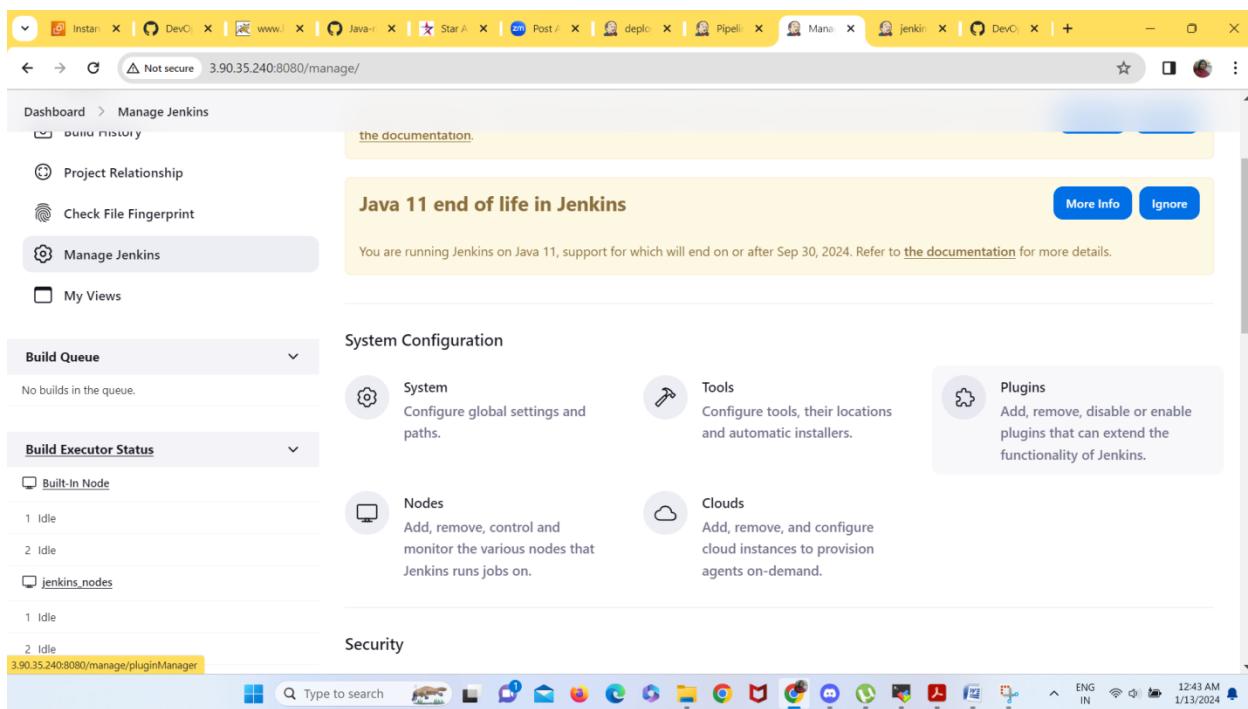
- System**
Configure global settings and paths.
- Tools**
Configure tools, their locations and automatic installers.
- Nodes**
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Clouds**
Add, remove, and configure cloud instances to provision agents on-demand.
- Plugins**
Add, remove, disable or enable plugins that can extend the functionality of Jenkins.

Build Queue
No builds in the queue.

Build Executor Status

| Node | Status |
|---------------|--------|
| Built-In Node | 1 Idle |
| | 2 Idle |
| jenkins_nodes | |

Security



Not secure 3.90.35.240:8080/manage/pluginManager/available

Jenkins

Search (CTRL+K)

Dashboard > Manage Jenkins > Plugins

Plugins

Updates

Available plugins

Installed plugins

Advanced settings

publish over

Install

| | Name | Released |
|-------------------------------------|--|------------------|
| <input type="checkbox"/> | Infrastructure plugin for Publish Over X 0.22 Send build artifacts somewhere. | 5 yr 9 mo ago |
| <input checked="" type="checkbox"/> | Publish Over SSH 1.25 Artifact Uploaders Build Tools Send build artifacts over SSH | 6 mo 10 days ago |
| <input type="checkbox"/> | Publish Over FTP 1.17 Artifact Uploaders Send build artifacts over FTP | 1 yr 9 mo ago |
| <input type="checkbox"/> | Publish Over CIFS 0.16 Artifact Uploaders Send build artifacts to a windows share (CIFS/SMB/samba) | 3 yr 1 mo ago |
| <input type="checkbox"/> | Publish Over Dropbox 1.3.2 | |

Type to search

ENG IN 12:45 AM 1/13/2024

Key ?

```
-----BEGIN RSA PRIVATE KEY-----  
MIIEoQIBAAKCAQE0mzjICtmoGjg1JQqP4pqejz2cU8NH7qnNmK+xjLZRctWfZ  
Ukd91sWGo56mr5kSz0TfaJphLnhFCwQXtrNG8g5hPF41HIXXLUU/+PhJ/uvog  
WqYf7djTjE7shmW6BQ+D/u1NIKty4Bnf3AlpG1YeHpWZLSigcOU17lEd60kW6z  
MXJm3/KMT4EfYgKH+vnKE5/gilnTQK/O/NcWlmjt2F72lfLE2Udfmx0algOTKt  
-----END RSA PRIVATE KEY-----
```

Disable exec ?

SSH Servers

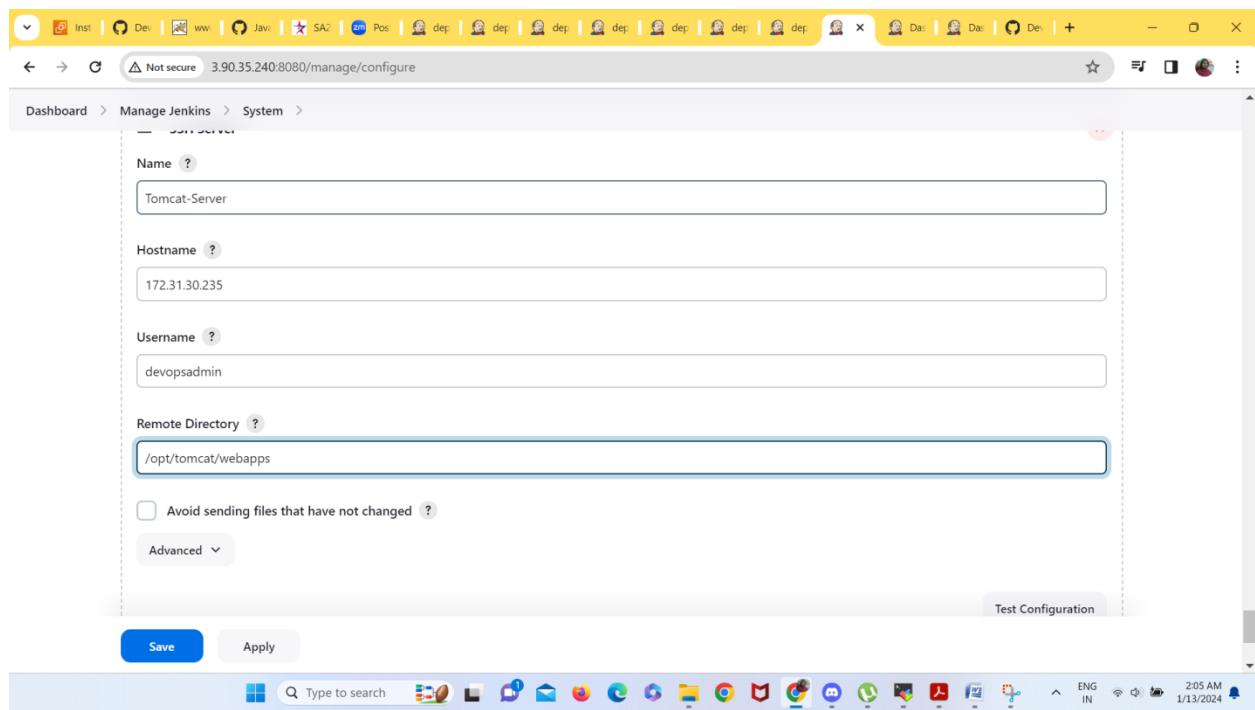
SSH Server

Name ?

Tomcat-Server

Hostname ?

47.24.20.225



Not secure 3.90.35.240:8080/job/deploytest/pipeline-syntax/

Dashboard > deploytest > Pipeline Syntax

- ① Online Documentation
- ① Examples Reference
- ① IntelliJ IDEA GDSL

sshPublisher: Send build artifacts over SSH

sshPublisher ?

SSH Publishers

≡ SSH Server

Name ?
Tomcat-Server

Advanced ▾

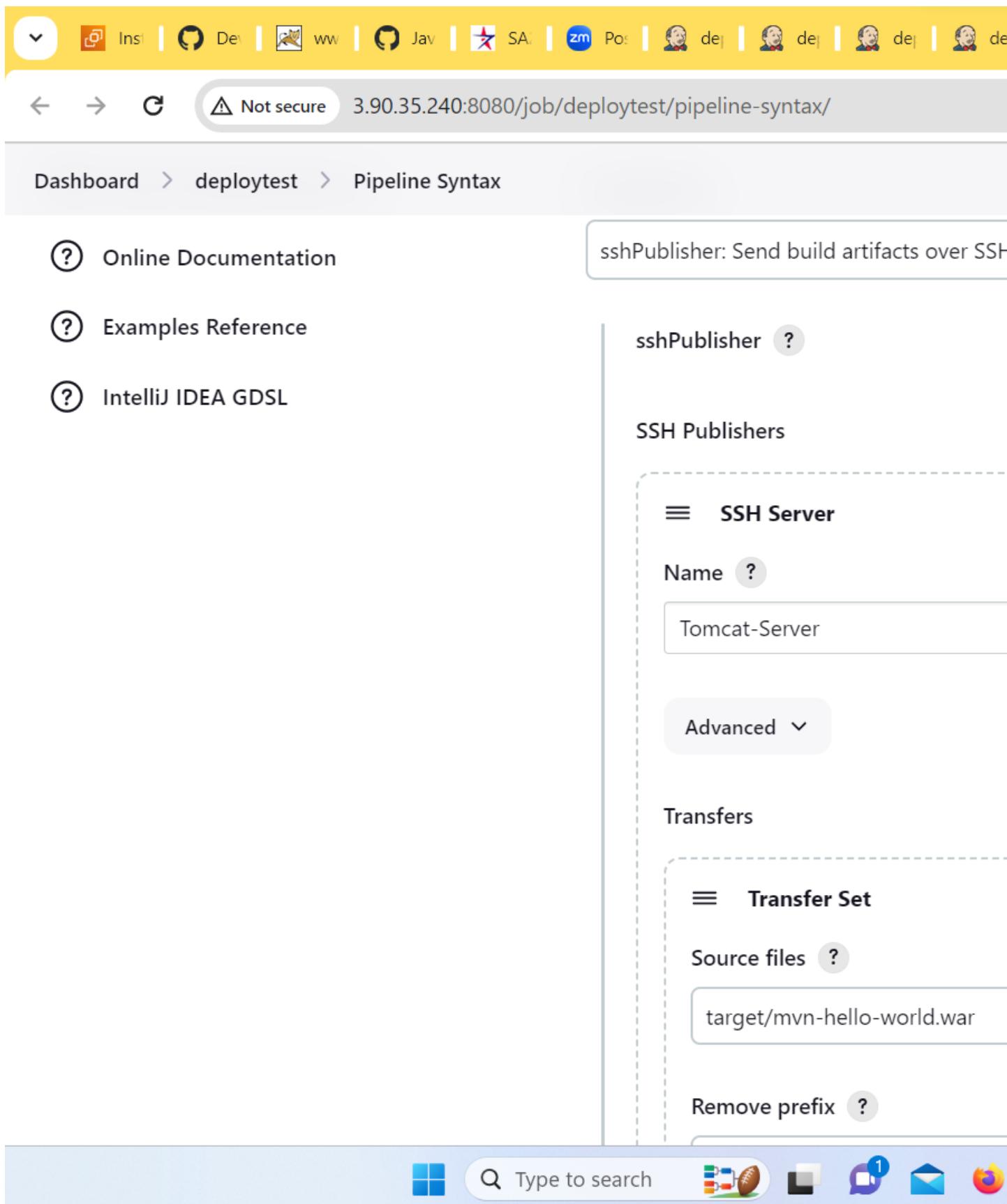
Transfers

≡ Transfer Set

Source files ?
target/mvn-hello-world.war

Remove prefix ?

Type to search

The image shows a Windows taskbar at the bottom of the screen. It features several pinned icons: File Explorer (yellow), Internet Explorer (red), Developer Tools (green), Word (blue), Java (orange), SAP (purple), Postman (pink), Jenkins (light blue), and two instances of Microsoft Edge (one with a '1' notification). A search bar is also present on the taskbar.

SSH Server

Name ?
Tomcat-Server

Advanced ▾

Transfers

Transfer Set

Source files ?
target/mvn-hello-world.war

Remove prefix ?
target/

Remote directory ?
.

Add Server

Advanced ▾

Publish to other SSH servers if an error occurs ?

Fail the build if an error occurs ?

Always SSH from master ?

Parameterized publishing ?

Generate Pipeline Script

```
sshPublisher(publishers: [sshPublisherDesc(configName: 'Tomcat-Server', transfers: [sshTransfer(cleanRemote: false, excludes: "", execCommand: "", execTimeout: 120000, flatten: false, makeEmptyDirs: false, noDefaultExcludes: false, patternSeparator: '[ ]+', remoteDirectory: '.', remoteDirectorySDF: false, removePrefix: 'target/'), sourceFiles: 'target/mvn-hello-world.war'])], usePromotionTimestamp: false, useWorkspaceInPromotion: false, verbose: true)
```

Copy



Configure

Pipeline

General

Advanced Project Options

Pipeline

Definition

Pipeline script

Script

```

12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
    stage('Maven Build') {
        steps {
            echo 'Perform Maven Build'
            sh "mvn clean package"
        }
    }
    stage('Deploy to Tomcat - Server') {
        steps {
            script {
                sshPublisher(publishers: [sshPublisherDesc(configName: 'Tomcat-Server'), transfers: [sshTransfer(cleanRemote: true, excludes: null, includePatterns: ['**/*'], maxDepth: 1, remoteDir: '/var/www/html', user: 'root')], user: 'root')]
            }
        }
    }
}

```

try sample Pipeline...

Use Groovy Sandbox

Save

Apply

Dashboard > deploytest > #1

3.90.35.240:8080/job/deploytest/1/console

[1;34mINFO[m] Finished at: 2024-01-12T20:54:56Z
[1;34mINFO[m] [1m-----[m
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy to Tomcat - Server)
[Pipeline] script
[Pipeline] {
[Pipeline] sshPublisher
SSH: Connecting from host [ip-172-31-37-91]
SSH: Connecting with configuration [Tomcat-Server] ...
[Pipeline]
[Pipeline] // script
[Pipeline]
[Pipeline] // stage
[Pipeline]
SSH: Disconnecting configuration [Tomcat-Server] ...
SSH: Transferred 1 file(s)
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

REST API

Jenkins 2.426.2

Screenshot of a Jenkins pipeline stage view for the job "deploytest".

The pipeline consists of three stages:

- SCM Checkout:** 5s
- Maven Build:** 7s
- Deploy to Tomcat - Server:** 2s

Average stage times: (Average full run time: ~20s)

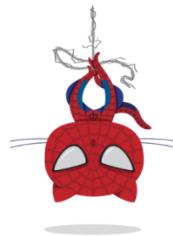
Build History (Jan 13, 02:24, No Changes):

- #1 12 Jan 2024, 20:54
- Atom feed for all
- Atom feed for failures

Permalinks:



Screenshot of a browser window showing multiple tabs open, including "www.loksaleta.com" and "54.90.251.20:8080/mvn-hello-world/".



Hello Everyone

My Web App - SA - Nov 16 - POLLSCM demo..

