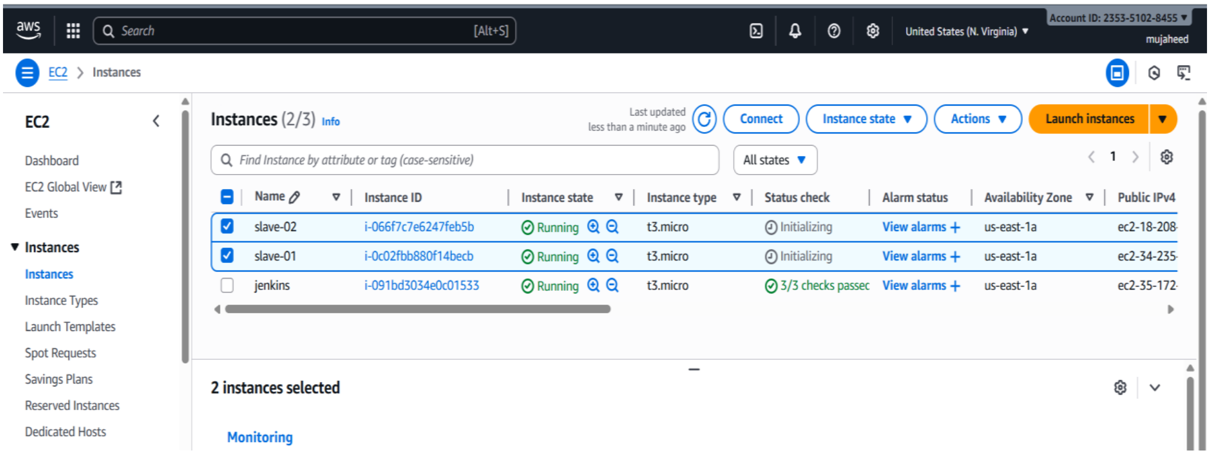
1. Configure 2 slave machines in Jenkins master.

Go to ec2 and create 2 ec2 instances named as slave1, slave2.



Instances (2/3) Info

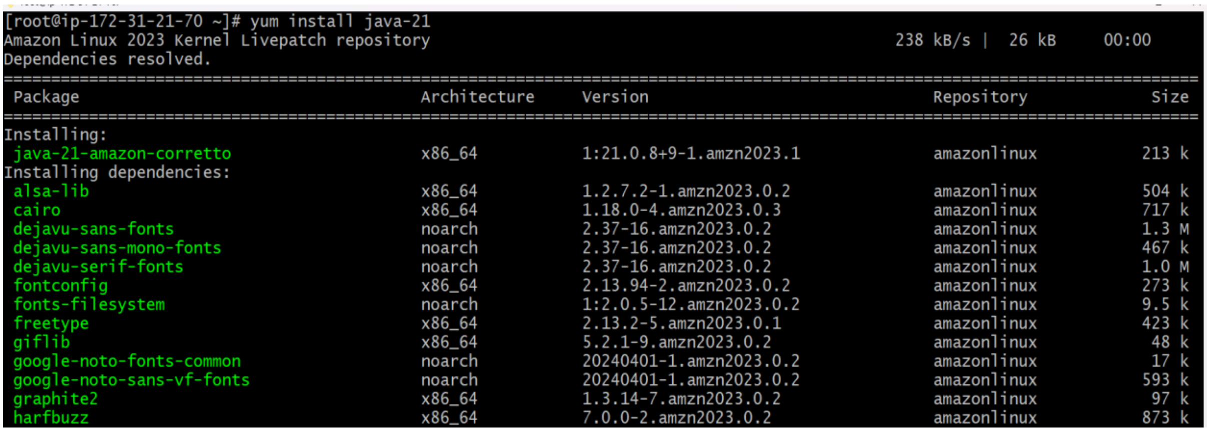
☑	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
☑	slave-02	i-066f7c7e6247feb5b	Running	t3.micro	Initializing	View alarms +	us-east-1a	ec2-18-208-
☑	slave-01	i-0c02fbb880f14becb	Running	t3.micro	Initializing	View alarms +	us-east-1a	ec2-34-235-
□	jenkins	i-091bd3034e0c01533	Running	t3.micro	3/3 checks passec	View alarms +	us-east-1a	ec2-35-172-

2 instances selected

Steps to do in slave machine:

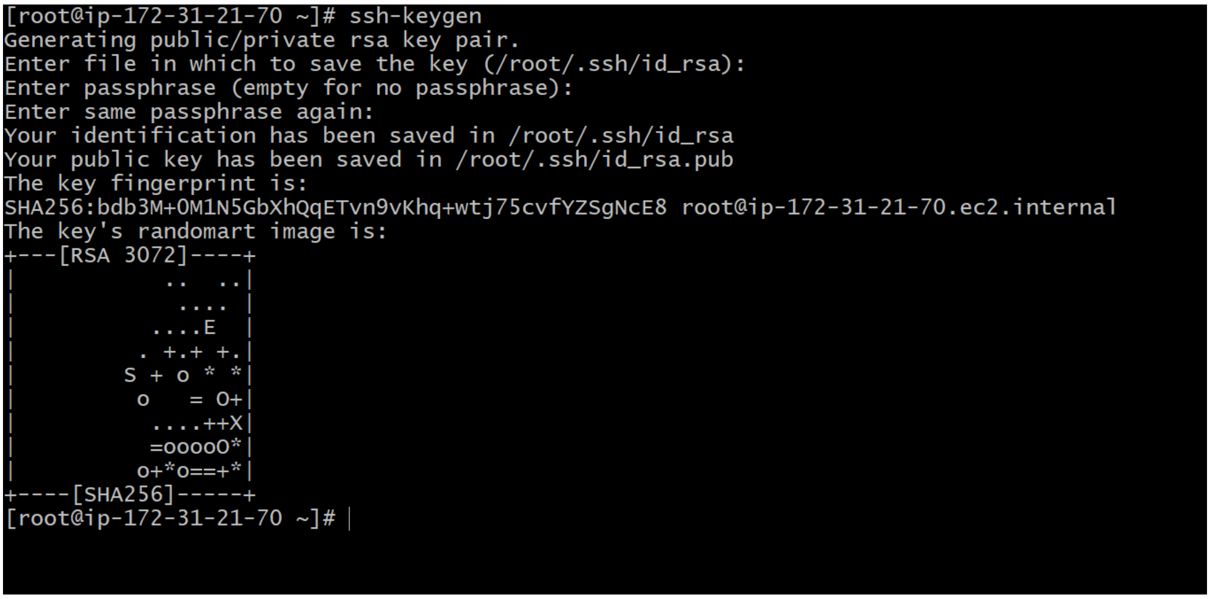
- Login to slave machine
- Switch to root user
- Install java
- Create ssh-keygen
- Cat id_rsa.pub > authorized_keys
- Chmod 700 authorized_key

Login with slave-01 and switch to root user and install java.



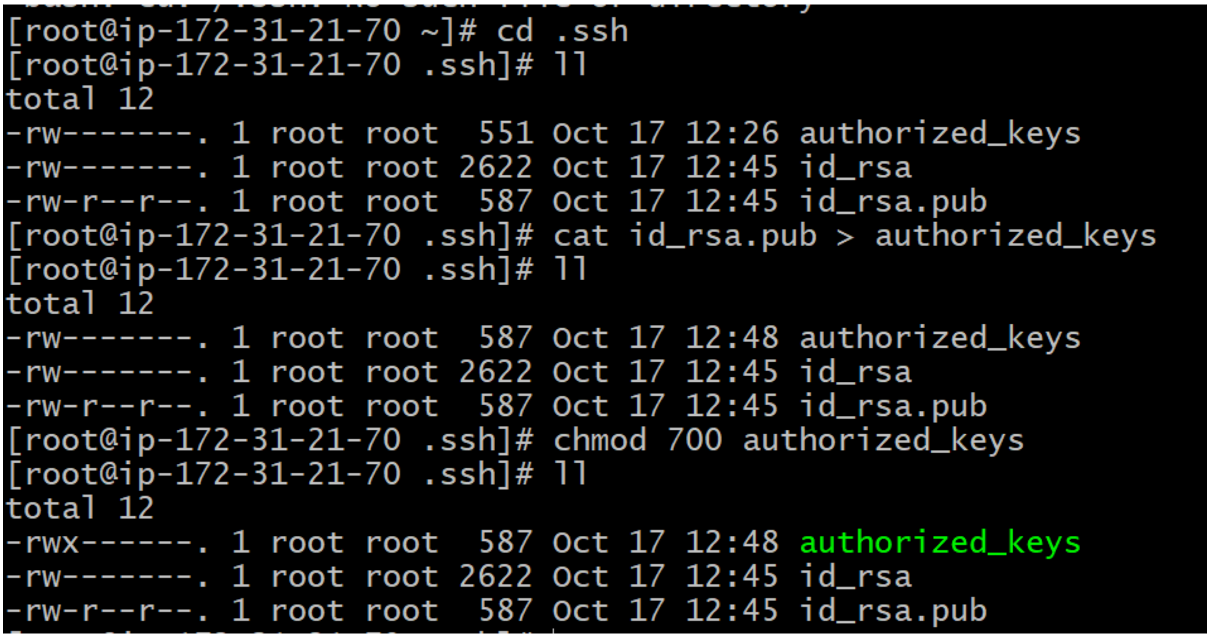
```
[root@ip-172-31-21-70 ~]# yum install java-21
Amazon Linux 2023 Kernel Livepatch repository                                                   238 kB/s |  26 kB     00:00
Dependencies resolved.
==============================================================================================================================
 Package                                       Architecture     Version                               Repository         Size
==============================================================================================================================
Installing:
 java-21-amazon-corretto                       x86_64           1:21.0.8+9-1.amzn2023.1               amazonlinux       213 k
Installing dependencies:
 alsa-lib                                      x86_64           1.2.7.2-1.amzn2023.0.2                amazonlinux       504 k
 cairo                                         x86_64           1.18.0-4.amzn2023.0.3                 amazonlinux       717 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.amzn2023.0.2               amazonlinux       9.5 k
 freetype                                      x86_64           2.13.2-5.amzn2023.0.1                 amazonlinux       423 k
 giflib                                        x86_64           5.2.1-9.amzn2023.0.2                  amazonlinux        48 k
 google-noto-fonts-common                      noarch           20240401-1.amzn2023.0.2               amazonlinux        17 k
 google-noto-sans-vf-fonts                     noarch           20240401-1.amzn2023.0.2               amazonlinux       593 k
 graphite2                                     x86_64           1.3.14-7.amzn2023.0.2                 amazonlinux        97 k
 harfbuzz                                      x86_64           7.0.0-2.amzn2023.0.2                  amazonlinux       873 k
```

Create a key-gen by using ssh-keygen.



```
[root@ip-172-31-21-70 ~]# 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 fingerprint is:
SHA256:bdb3M+0M1N5GbXhQqETvn9vKhq+wtj75cvfYZSgNcE8 root@ip-172-31-21-70.ec2.internal
The key's randomart image is:
+---[RSA 3072]----+
|           ..  ..|
|            .... |
|          ....E  |
|         . +.+ +.|
|        S + o * *|
|         o   = O+|
|          ....++X|
|          =ooooO*|
|         o+*o==+*|
+----[SHA256]-----+
[root@ip-172-31-21-70 ~]#
```

- Change the directory cd .ssh
- Cat id_rsa.pub > authorized_keys
- Chmod 700 authorized_key



```
[root@ip-172-31-21-70 ~]# cd .ssh
[root@ip-172-31-21-70 .ssh]# ll
total 12
-rw-------. 1 root root  551 Oct 17 12:26 authorized_keys
-rw-------. 1 root root 2622 Oct 17 12:45 id_rsa
-rw-r--r--. 1 root root  587 Oct 17 12:45 id_rsa.pub
[root@ip-172-31-21-70 .ssh]# cat id_rsa.pub > authorized_keys
[root@ip-172-31-21-70 .ssh]# ll
total 12
-rw-------. 1 root root  587 Oct 17 12:48 authorized_keys
-rw-------. 1 root root 2622 Oct 17 12:45 id_rsa
-rw-r--r--. 1 root root  587 Oct 17 12:45 id_rsa.pub
[root@ip-172-31-21-70 .ssh]# chmod 700 authorized_keys
[root@ip-172-31-21-70 .ssh]# ll
total 12
-rwx------. 1 root root  587 Oct 17 12:48 authorized_keys
-rw-------. 1 root root 2622 Oct 17 12:45 id_rsa
-rw-r--r--. 1 root root  587 Oct 17 12:45 id_rsa.pub
```

Go to master account and follow this steps:

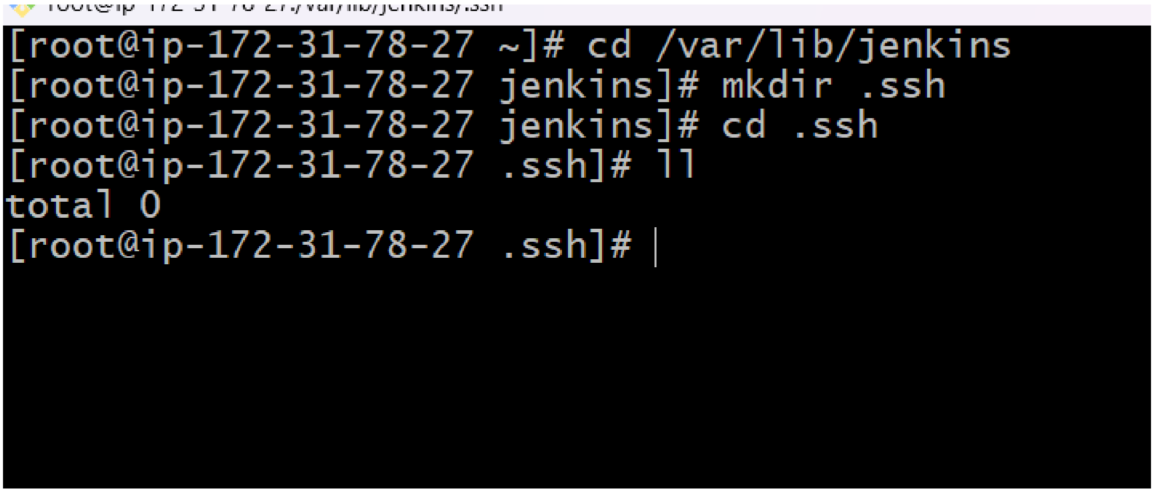
- Switch to root user
- mkdir -p/var/lib/Jenkins/.ssh

- ssh-keyscan -H ip address of slave >> /var/lib/Jenkins/.ssh/known_hosts
- chown Jenkins:jenkins known_hosts
- chmod 700 known_hosts

Login into master account :

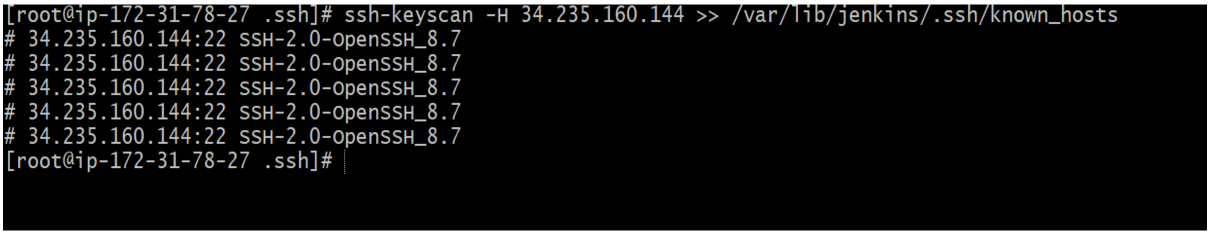
Create a directory by using

- Go to cd /var/lib/Jenkins
- Mkdir .ssh change to that ssh directory



```
[root@ip-172-31-78-27 ~]# cd /var/lib/jenkins
[root@ip-172-31-78-27 jenkins]# mkdir .ssh
[root@ip-172-31-78-27 jenkins]# cd .ssh
[root@ip-172-31-78-27 .ssh]# ll
total 0
[root@ip-172-31-78-27 .ssh]# |
```

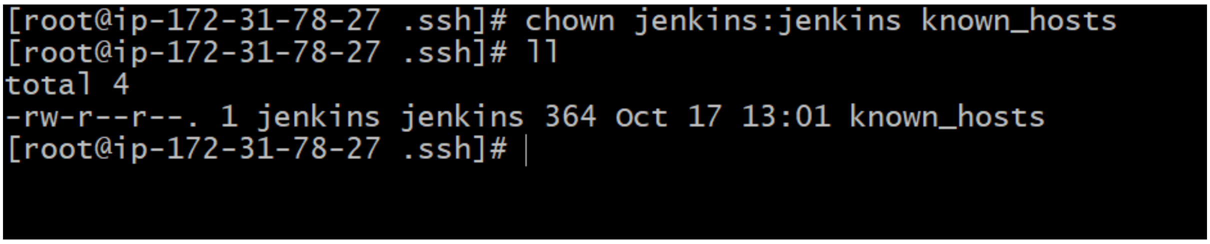
Execute ssh-keyscan -H ip of slave >> /var/lib/jenkins/.ssh/known_hosts



```
[root@ip-172-31-78-27 .ssh]# ssh-keyscan -H 34.235.160.144 >> /var/lib/jenkins/.ssh/known_hosts
# 34.235.160.144:22 SSH-2.0-OpenSSH_8.7
# 34.235.160.144:22 SSH-2.0-OpenSSH_8.7
# 34.235.160.144:22 SSH-2.0-OpenSSH_8.7
# 34.235.160.144:22 SSH-2.0-OpenSSH_8.7
# 34.235.160.144:22 SSH-2.0-OpenSSH_8.7
[root@ip-172-31-78-27 .ssh]#
```

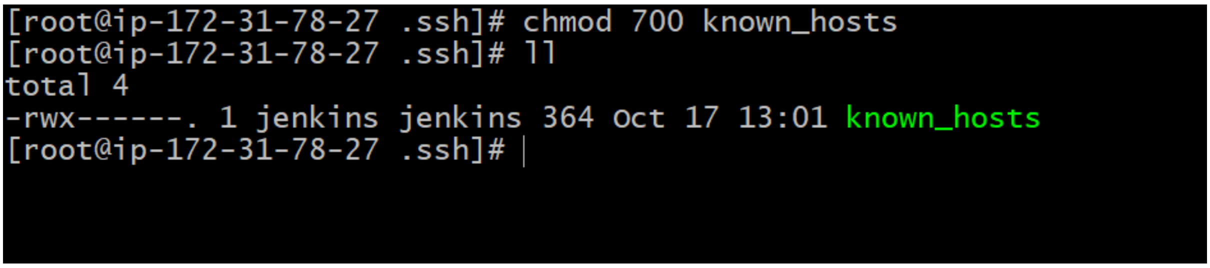
Execute command to change ownership:

- Chown Jenkins:jenkins known_hosts



```
[root@ip-172-31-78-27 .ssh]# chown jenkins:jenkins known_hosts
[root@ip-172-31-78-27 .ssh]# ll
total 4
-rw-r--r--. 1 jenkins jenkins 364 Oct 17 13:01 known_hosts
[root@ip-172-31-78-27 .ssh]#
```

Change permissions

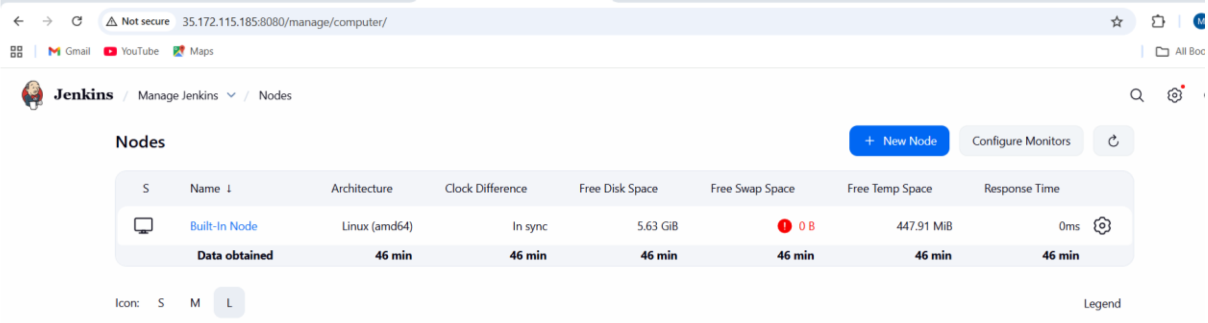


```
[root@ip-172-31-78-27 .ssh]# chmod 700 known_hosts
[root@ip-172-31-78-27 .ssh]# ll
total 4
-rwx------. 1 jenkins jenkins 364 Oct 17 13:01 known_hosts
[root@ip-172-31-78-27 .ssh]#
```

Steps to do in jenkins gui:

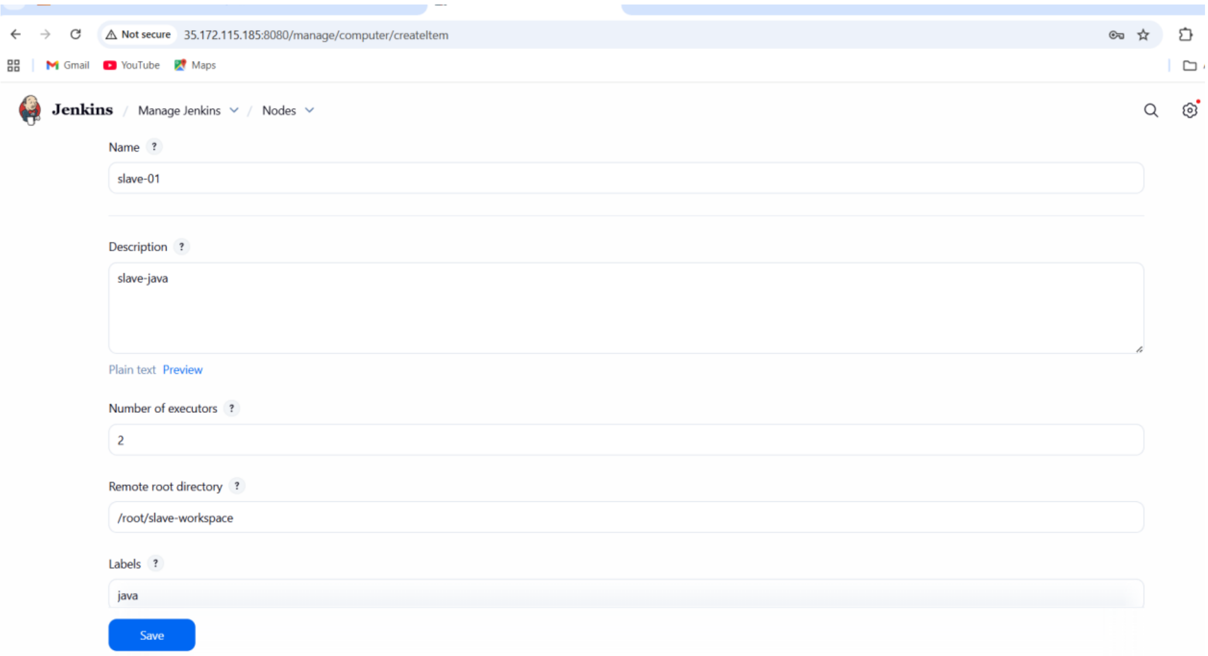
- Open manage Jenkins
- Under launch method select “launch via ssh”
- Host public ip of slave
- Credentials:select user with private key
- Enter ec2-user as name and paste the pem key
- Host key verification strategy to be selected
- save

Go to Jenkins gui and click on managed Jenkins and click on node create node.



Nodes

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
🖥	Built-In Node	Linux (amd64)	In sync	5.63 GiB	● 0 B	447.91 MiB	0ms
	Data obtained	**46 min**	**46 min**	**46 min**	**46 min**	**46 min**	**46 min**



Name ?

slave-01

Description ?

slave-java

Plain text Preview

Number of executors ?

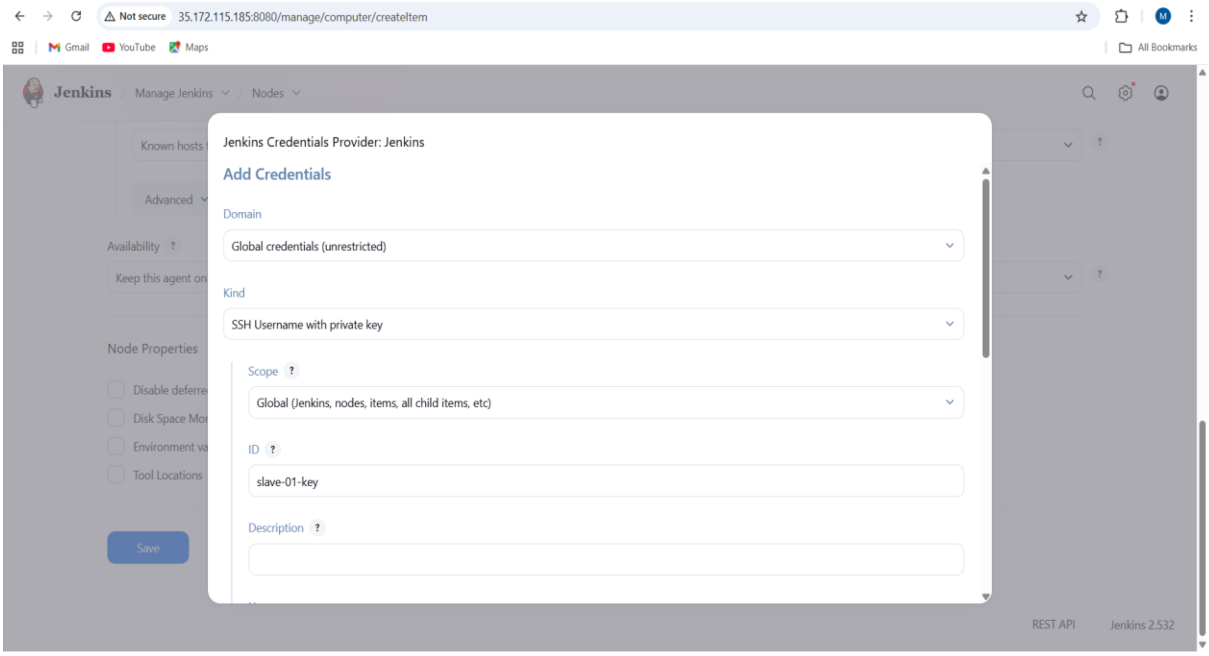
2

Remote root directory ?

/root/slave-workspace

Labels ?

java



Jenkins Credentials Provider: Jenkins

Add Credentials

Domain

Global credentials (unrestricted)

Kind

SSH Username with private key

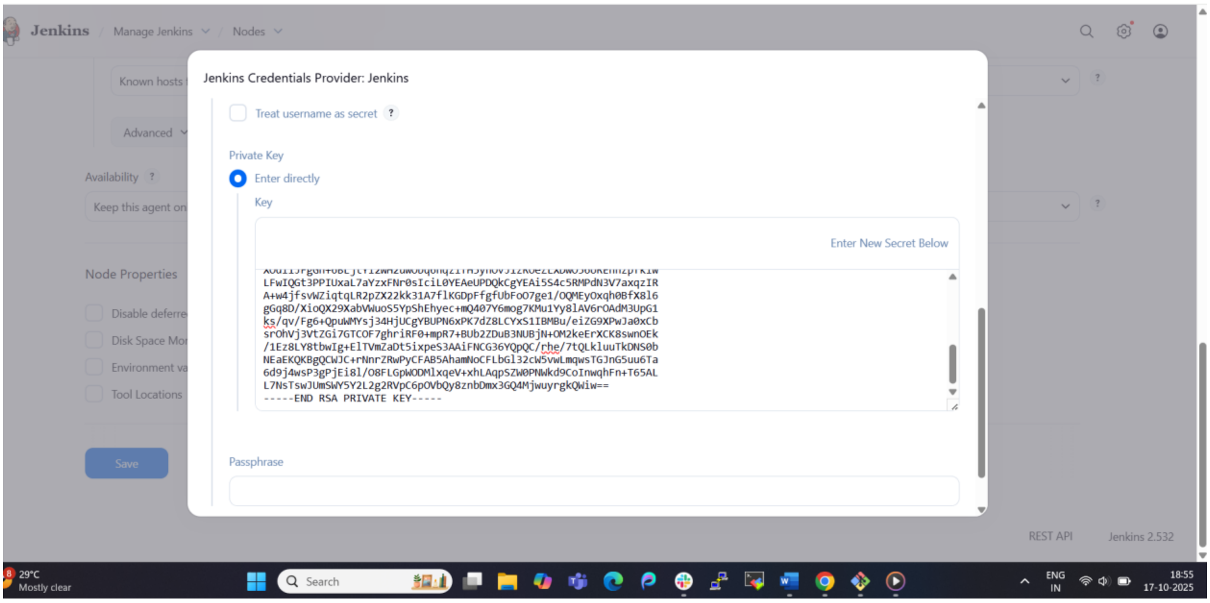
Scope ?

Global (Jenkins, nodes, items, all child items, etc)

ID ?

slave-01-key

Description ?



Jenkins Credentials Provider: Jenkins

□ Treat username as secret ?

Private Key

● Enter directly

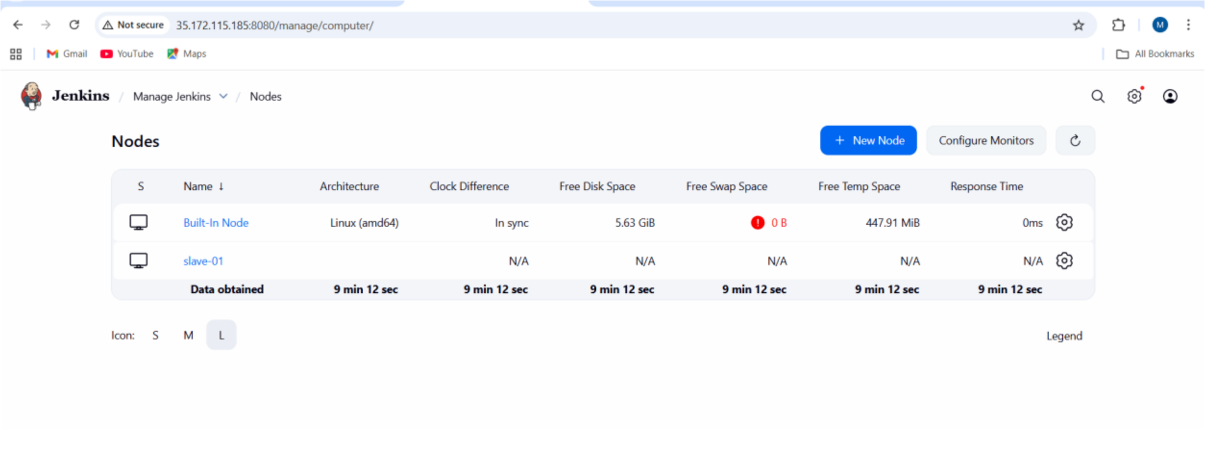
Key

Enter New Secret Below

```
LFwIQGt3PPIUxaL7aYzxFNr0sIciL0YEAeUPDQkCgYEAi5S4c5RMPdN3V7axqzIR
A+w4jfsvWZiqtqLR2pZX22kk31A7flKGDpFfgfUbFoO7ge1/OQMEyOxqh0BfX8l6
gGq8D/XioQX29XabVWuoS5YpShEhyec+mQ407Y6mog7KMu1Yy8lAV6rOAdM3UpG1
ks/qv/Fg6+QpuWMYsj34HjUCgYBUPN6xPK7dZ8LCYxS1IBMBu/eiZG9XPwJa0xCb
srOhVj3VtZGi7GTCOF7ghriRF0+mpR7+BUb2ZDuB3NUBjN+OM2keErXCK8swnOEk
/1Ez8LY8tbwIg+ElTVmZaDt5ixpeS3AAiFNCG36YQpQC/rhe/7tQLkluuTkDNS0b
NEaEKQKBgQCWJC+rNnrZRwPyCFAB5AhamNoCFLbGl32cW5vwLmqwsTGJnG5uu6Ta
6d9j4wsP3gPjEi8l/O8FLGpWODMlxqeV+xhLAqpSZW0PNWkd9CoInwqhFn+T65AL
L7NsTswJUmSWY5Y2L2g2RVpC6pOVbQy8znbDmx3GQ4MjwuyrgkQWiw==
-----END RSA PRIVATE KEY-----
```

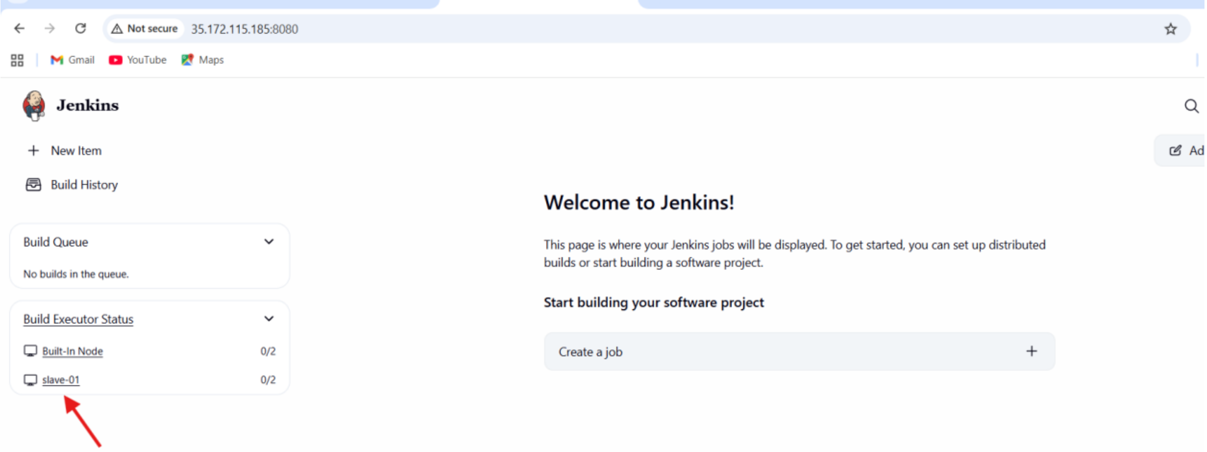
Passphrase

Then the slave will be created.



Nodes

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time	
	Built-In Node	Linux (amd64)	In sync	5.63 GiB	0 B	447.91 MiB	0ms	⚙
	slave-01		N/A	N/A	N/A	N/A	N/A	⚙
	Data obtained	9 min 12 sec	9 min 12 sec	9 min 12 sec	9 min 12 sec	9 min 12 sec	9 min 12 sec	

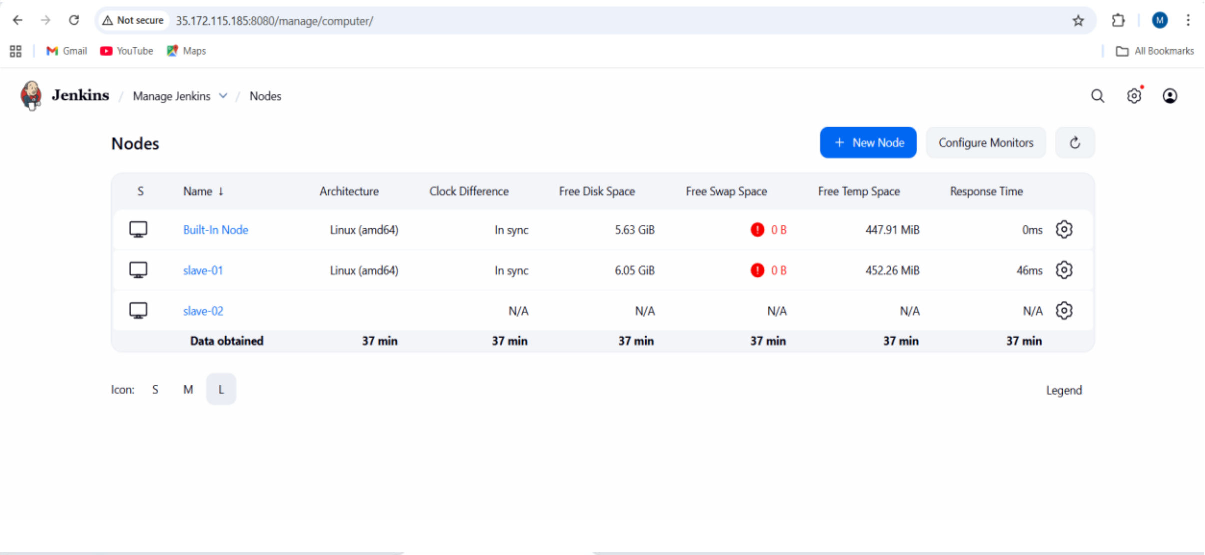


Welcome to Jenkins!

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.

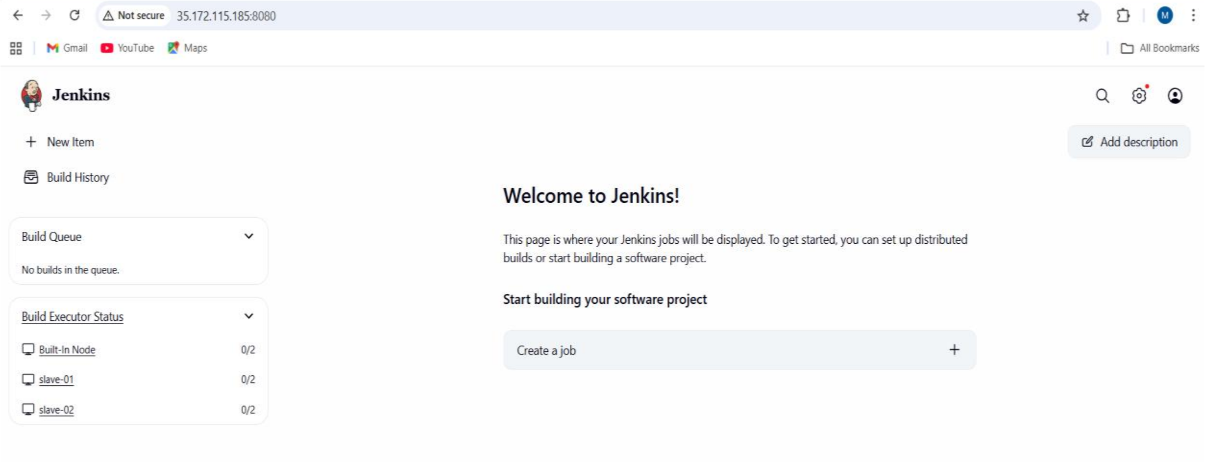
Start building your software project

Do the same process to second slave.


Not secure 35.172.115.185:8080/manage/computer/
Gmail
YouTube
Maps
All Bookmarks
Jenkins / Manage Jenkins / Nodes
+ New Node
Configure Monitors

Nodes

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	5.63 GiB	0 B	447.91 MiB	0ms
	slave-01	Linux (amd64)	In sync	6.05 GiB	0 B	452.26 MiB	46ms
	slave-02		N/A	N/A	N/A	N/A	N/A
	Data obtained	37 min	37 min	37 min	37 min	37 min	37 min



Build Queue

No builds in the queue.

Build Executor Status

Built-In Node	0/2
slave-01	0/2
slave-02	0/2

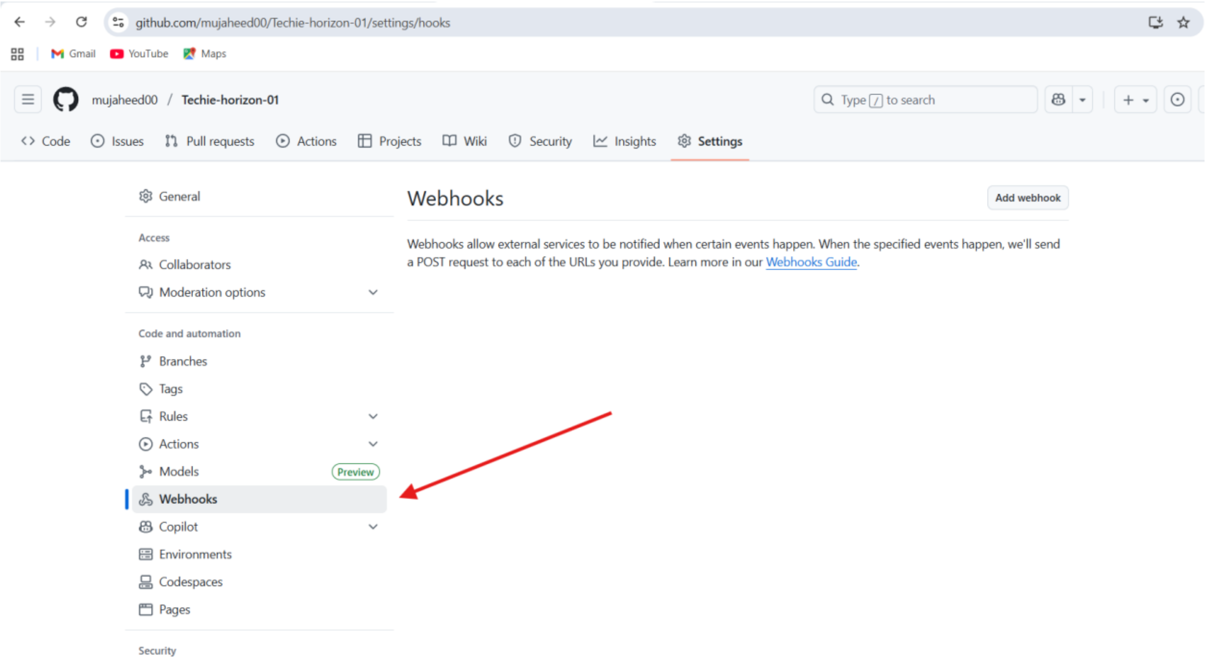
Welcome to Jenkins!

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

2. Configure webhooks to Jenkins job.

Go to git hub and select your repository and click on settings select webhooks.

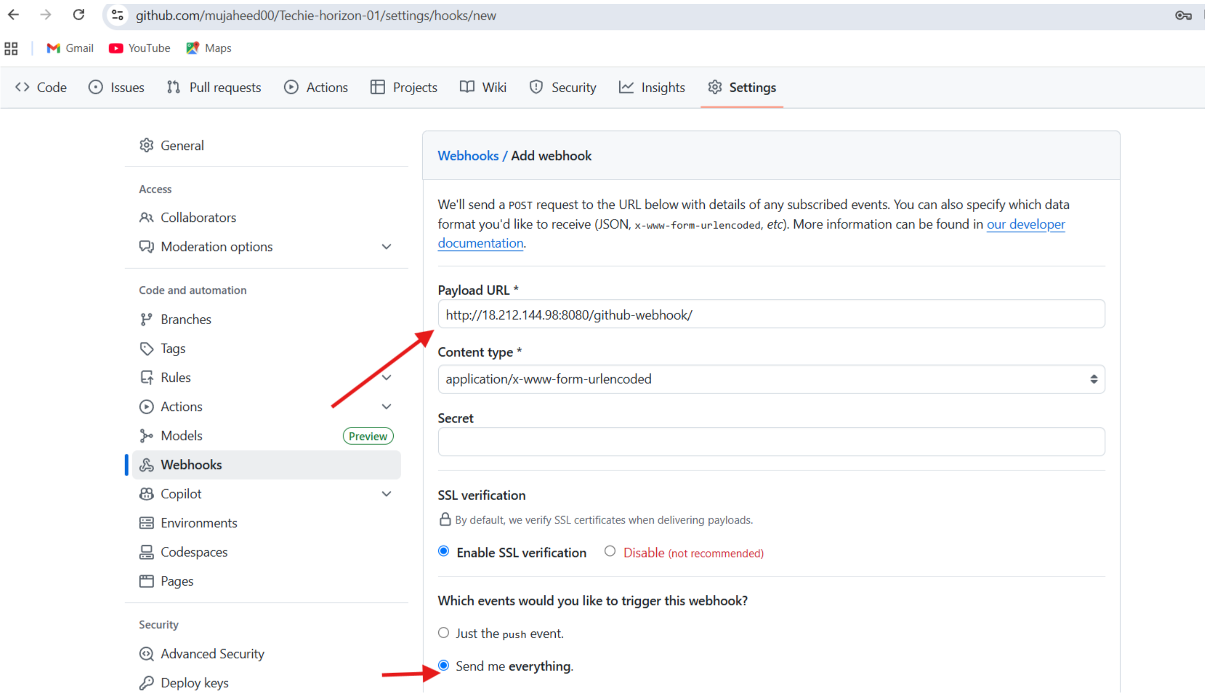


Webhooks

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our Webhooks Guide.

Click on add webhook.

Give the url where you need to add the webhook.. copy the Jenkins url and add extension url/github-webhook/ and save it.



Webhooks / Add webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, *etc*). More information can be found in our developer documentation.

Payload URL *
http://18.212.144.98:8080/github-webhook/

Content type *
application/x-www-form-urlencoded

Secret

SSL verification

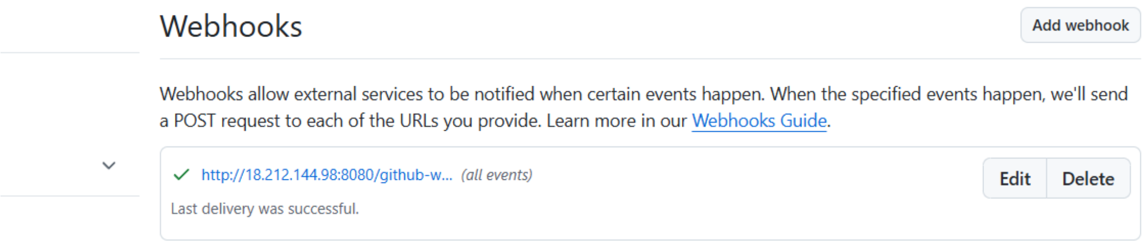
By default, we verify SSL certificates when delivering payloads.

● Enable SSL verification ○ Disable (not recommended)

Which events would you like to trigger this webhook?

○ Just the push event.

● Send me **everything**.



Webhooks

Add webhook

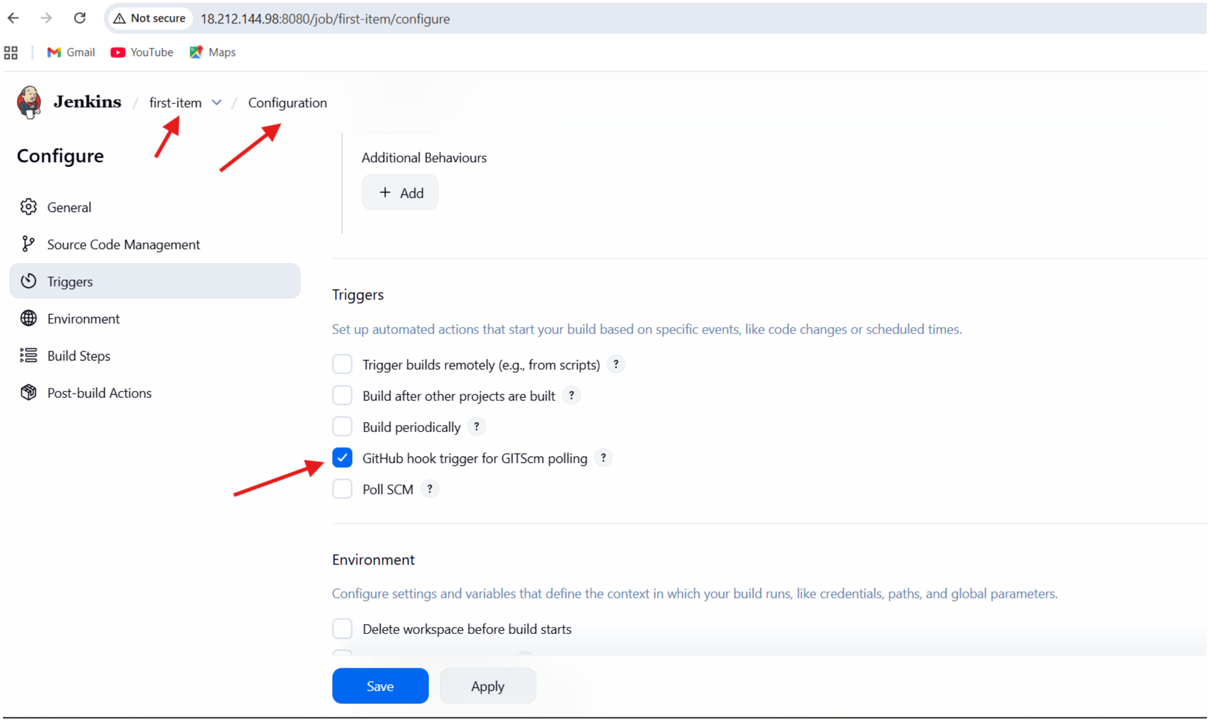
Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our Webhooks Guide.

✓ http://18.212.144.98:8080/github-w... *(all events)*

Last delivery was successful.

After that select a job which you need to configure webhooks.

Go to configure and in that in triggers we are having git hub hook trigger then you need to enable that option and save it.



Not secure 18.212.144.98:8080/job/first-item/configure

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

□ Trigger builds remotely (e.g., from scripts) ?

□ Build after other projects are built ?

□ Build periodically ?

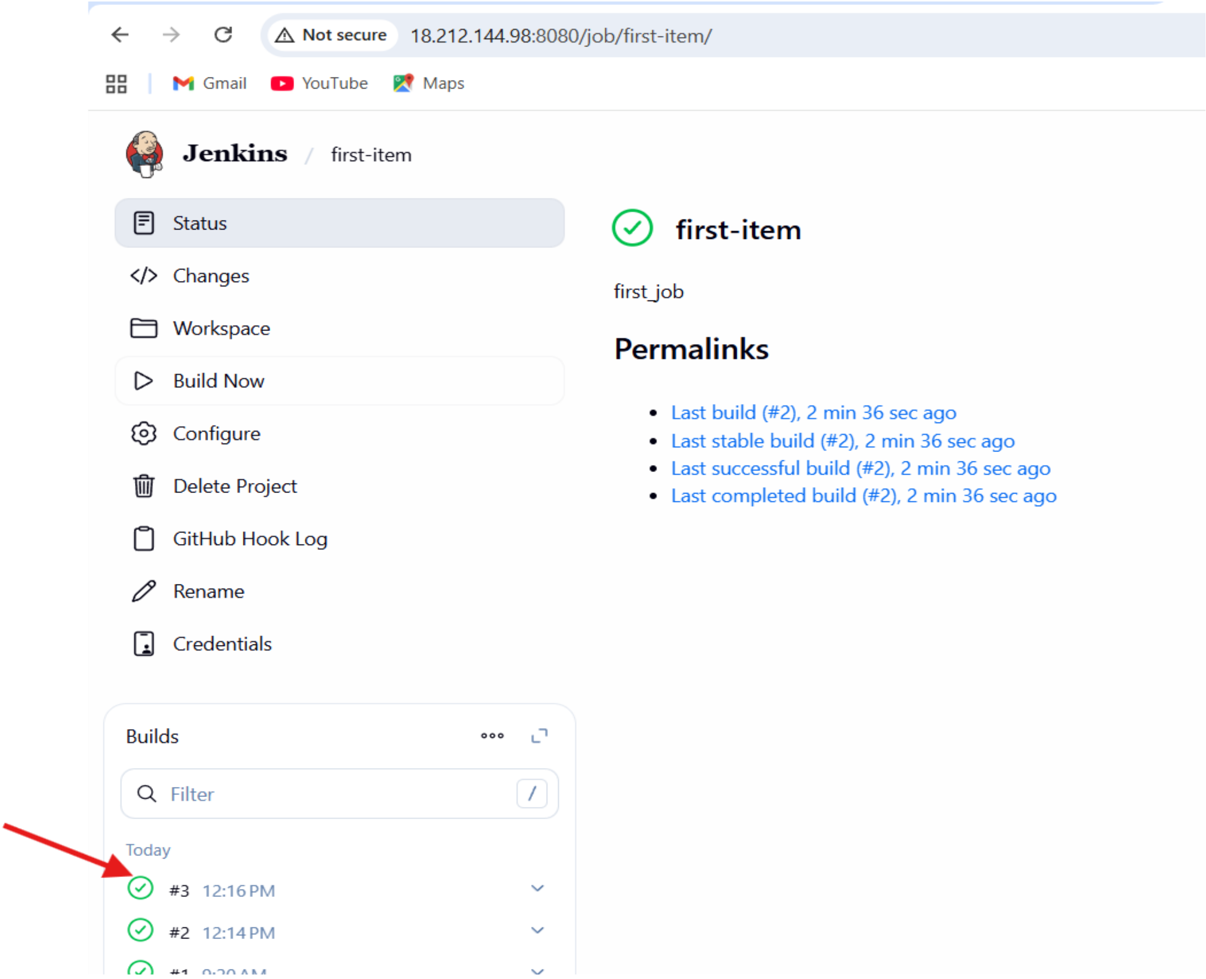
☑ GitHub hook trigger for GITScm polling ?

□ Poll SCM ?

Environment

Configure settings and variables that define the context in which your build runs, like credentials, paths, and global parameters.

□ Delete workspace before build starts



first-item

first_job

Permalinks

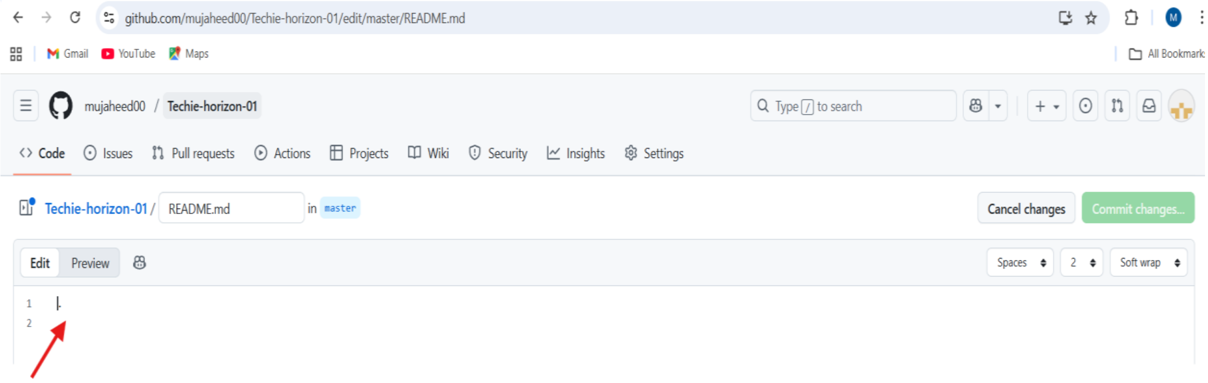
- Last build (#2), 2 min 36 sec ago
- Last stable build (#2), 2 min 36 sec ago
- Last successful build (#2), 2 min 36 sec ago
- Last completed build (#2), 2 min 36 sec ago

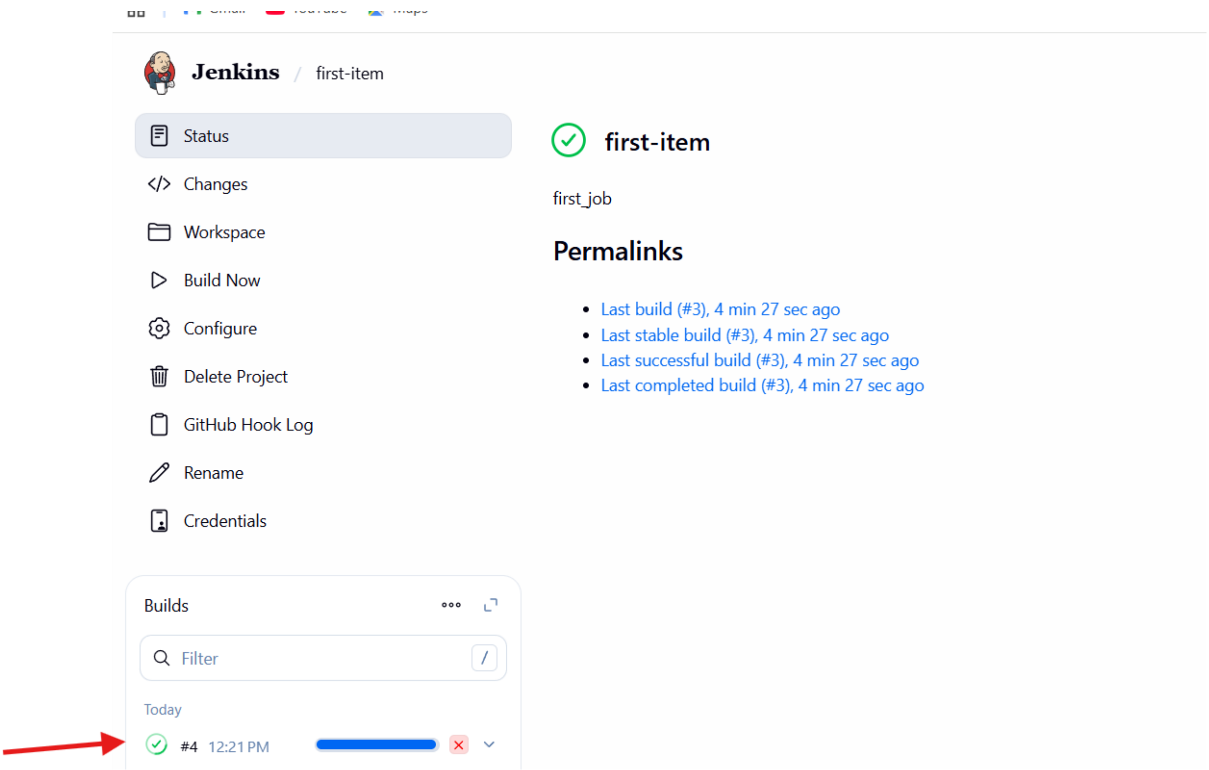
Today

#3 12:16 PM

#2 12:14 PM

If you go to git hub and make any changes in the source code it will automatically triggers in the Jenkins.





first-item

first_job

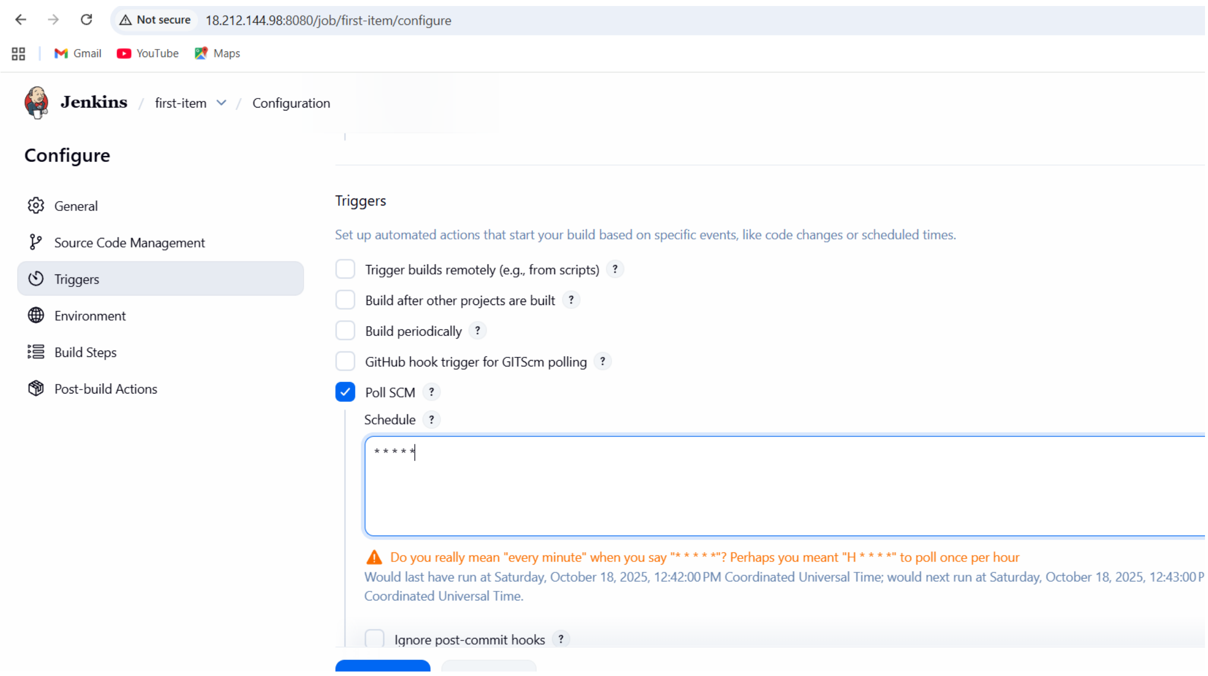
Permalinks

- Last build (#3), 4 min 27 sec ago
- Last stable build (#3), 4 min 27 sec ago
- Last successful build (#3), 4 min 27 sec ago
- Last completed build (#3), 4 min 27 sec ago

3. Configure poll scm and build periodical options in Jenkins job.

Poll scm:

Select your job and go to configure and enable poll scm and give 5 stars. Then it will go github every minute and check whether there is a change in source code then it will trigger otherwise not.



Not secure 18.212.144.98:8080/job/first-item/configure

Gmail YouTube Maps

Jenkins / first-item / Configuration

Configure

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

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

□ Trigger builds remotely (e.g., from scripts) ?

□ Build after other projects are built ?

□ Build periodically ?

□ GitHub hook trigger for GITScm polling ?

☑ Poll SCM ?

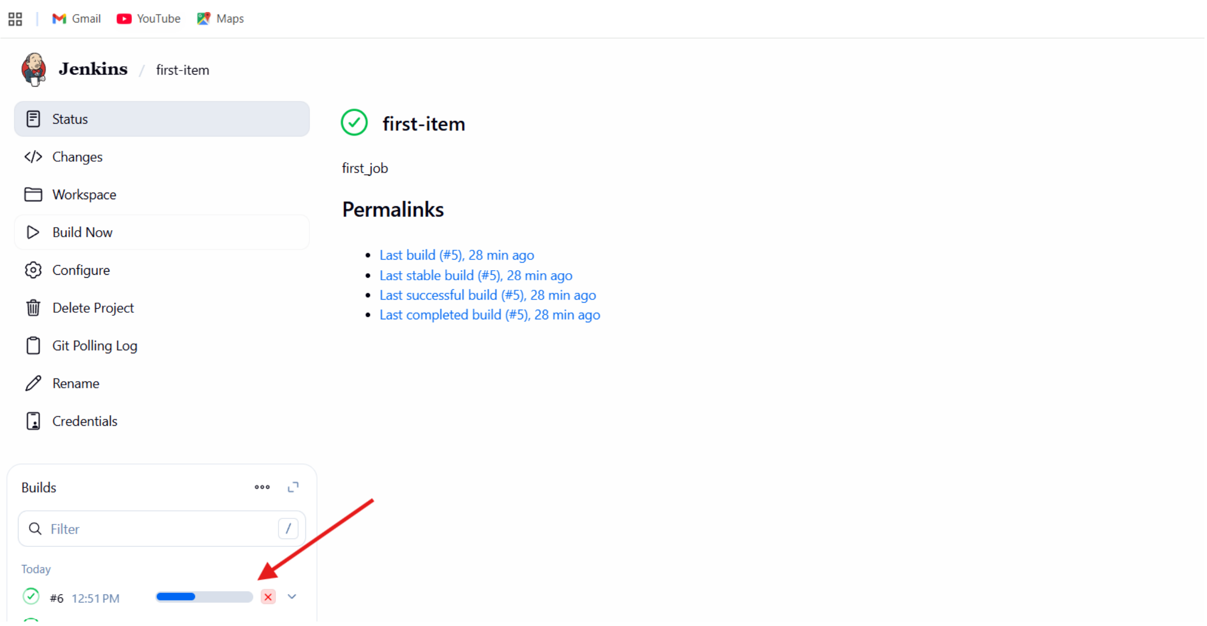
Schedule ?

```
* * * * *
```

⚠ Do you really mean "every minute" when you say "* * * * *"? Perhaps you meant "H * * * *" to poll once per hour

Would last have run at Saturday, October 18, 2025, 12:42:00 PM Coordinated Universal Time; would next run at Saturday, October 18, 2025, 12:43:00 P Coordinated Universal Time.

□ Ignore post-commit hooks ?



Gmail YouTube Maps

Jenkins / first-item

- Status
- Changes
- Workspace
- Build Now
- Configure
- Delete Project
- Git Polling Log
- Rename
- Credentials

Builds

Filter

Today

#6 12:51 PM

✓ first-item

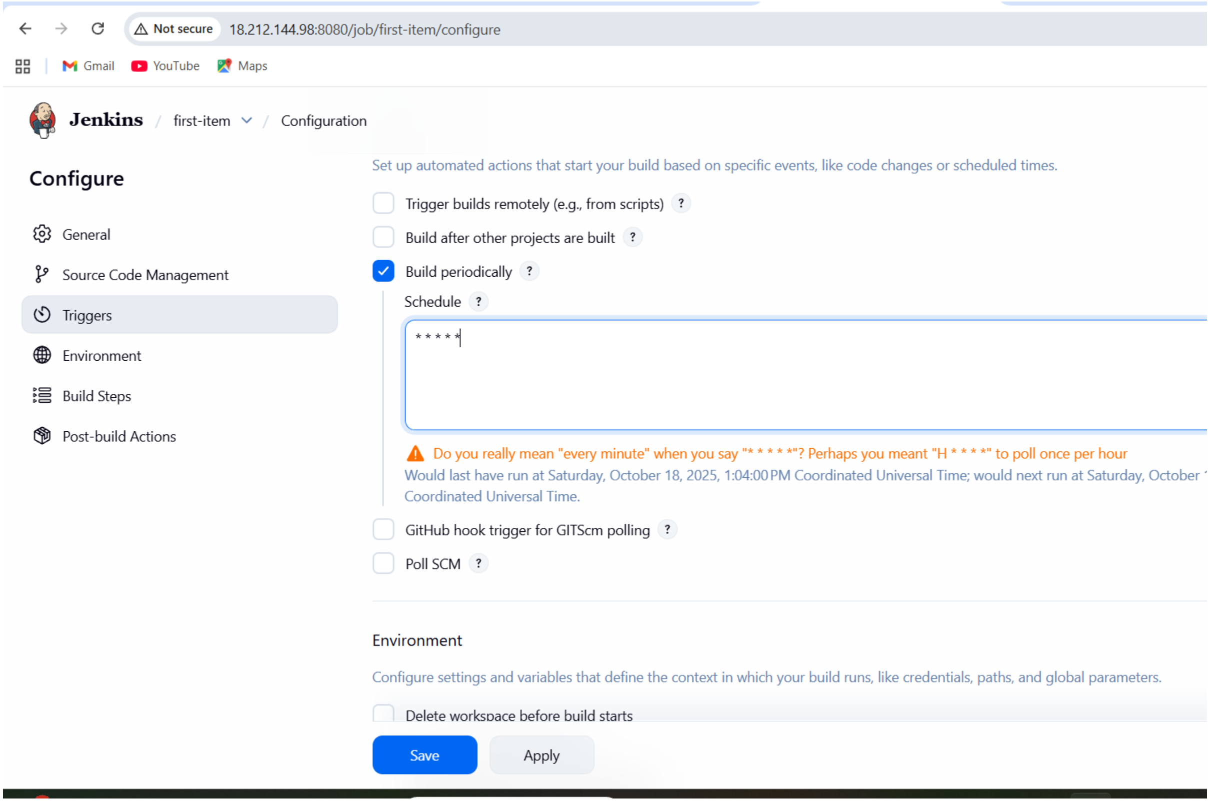
first_job

Permalinks

- Last build (#5), 28 min ago
- Last stable build (#5), 28 min ago
- Last successful build (#5), 28 min ago
- Last completed build (#5), 28 min ago

Build periodical:

Select your job and go to configure and enable option build periodically.it will trigger based on timing we set if there is change or not in the code it will trigger to that particular time.



Set up automated actions that start your build based on specific events, like code changes or scheduled times.

□ Trigger builds remotely (e.g., from scripts) ?

□ Build after other projects are built ?

☑ Build periodically ?

Schedule ?

```
* * * * *
```

⚠ Do you really mean "every minute" when you say "* * * * *"? Perhaps you meant "H * * * *" to poll once per hour
Would last have run at Saturday, October 18, 2025, 1:04:00 PM Coordinated Universal Time; would next run at Saturday, October
Coordinated Universal Time.

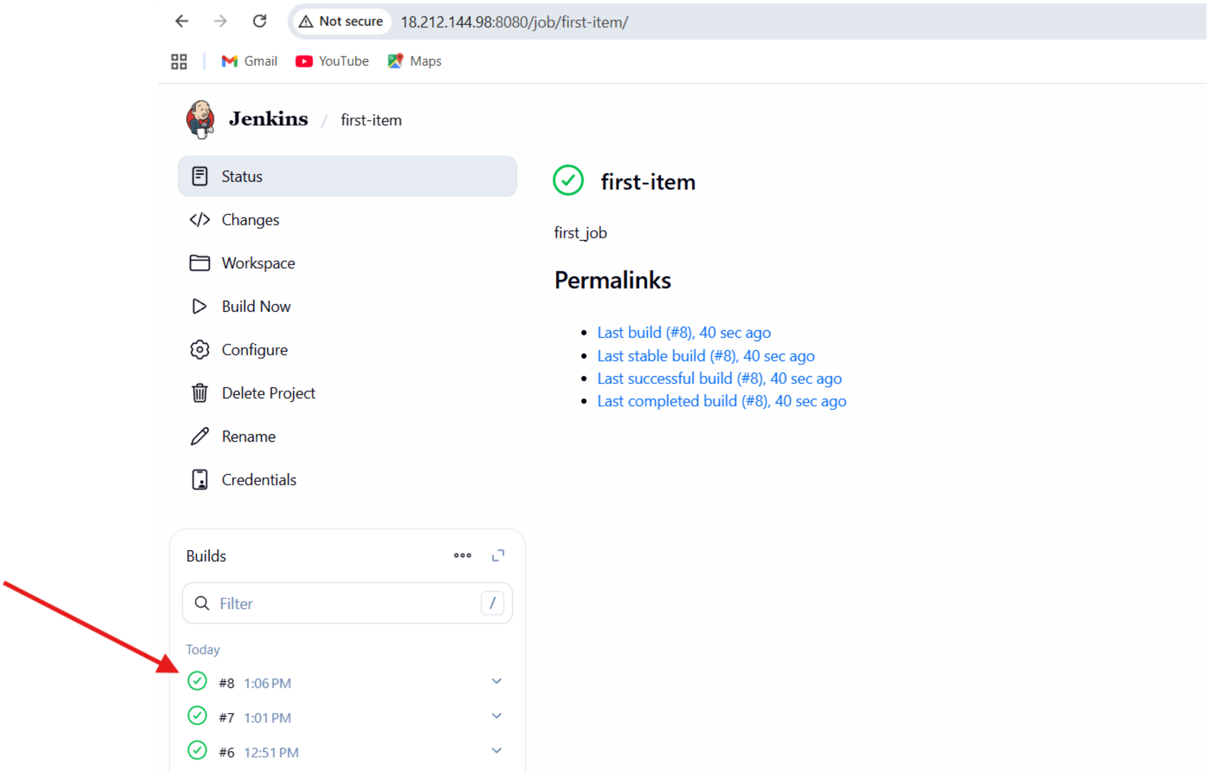
□ GitHub hook trigger for GITScm polling ?

□ Poll SCM ?

Environment

Configure settings and variables that define the context in which your build runs, like credentials, paths, and global parameters.

□ Delete workspace before build starts



✓ first-item

first_job

Permalinks

- Last build (#8), 40 sec ago
- Last stable build (#8), 40 sec ago
- Last successful build (#8), 40 sec ago
- Last completed build (#8), 40 sec ago

✓ #8 1:06 PM

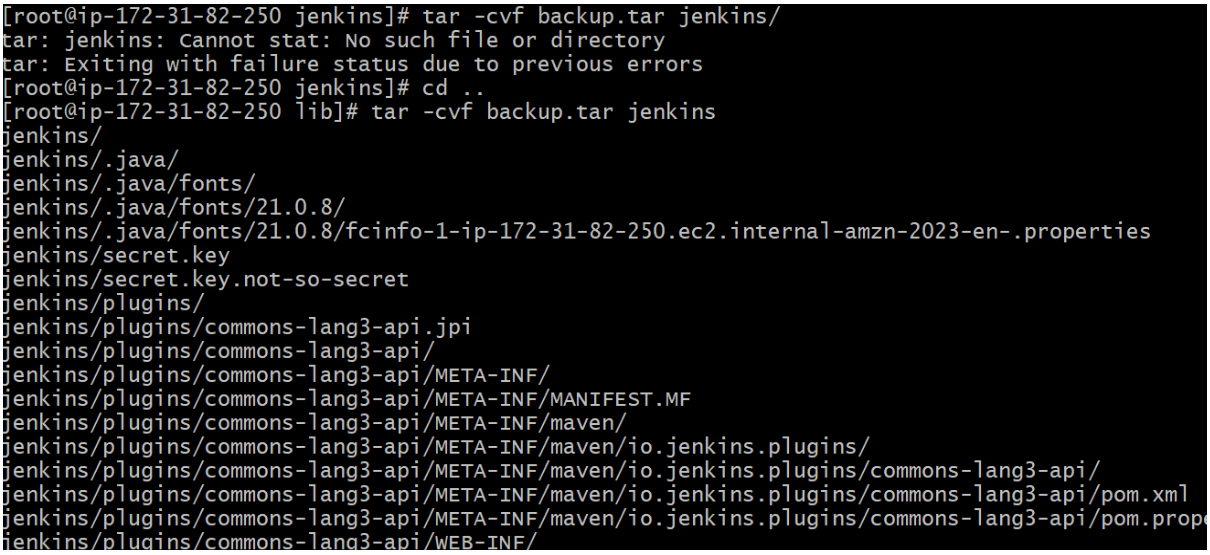
✓ #7 1:01 PM

✓ #6 12:51 PM

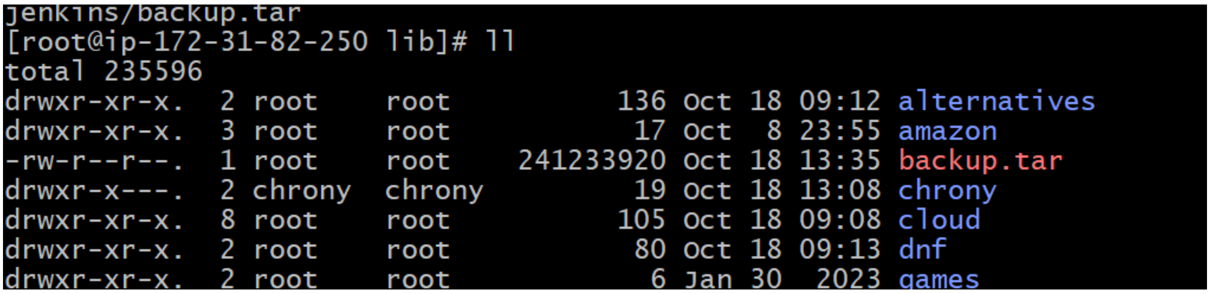
4. Take backup of Jenkins server by using bash script.

```
#!/bin/bash
# Variables
JENKINS_HOME="/var/lib/jenkins"
BACKUP_DIR="/backup/jenkins"
DATE=$(date +'%Y-%m-%d_%H-%M-%S')
BACKUP_FILE="$BACKUP_DIR/jenkins_backup_$DATE.tar.gz"
# Create backup directory if not exists
mkdir -p "$BACKUP_DIR"
# Stop Jenkins service (optional but safer)
echo "Stopping Jenkins service..."
systemctl stop jenkins
# Take backup
echo "Taking backup of Jenkins directory..."
tar -czvf "$BACKUP_FILE" "$JENKINS_HOME"
# Start Jenkins service back
echo "Starting Jenkins service..."
systemctl start jenkins
echo "Backup completed successfully!"
echo "Backup file stored at: $BACKUP_FILE"
```

- Write and save the script
- Give permissions : chmod +x Jenkins_backup.sh
- Run the script : ./ Jenkins_backup.sh

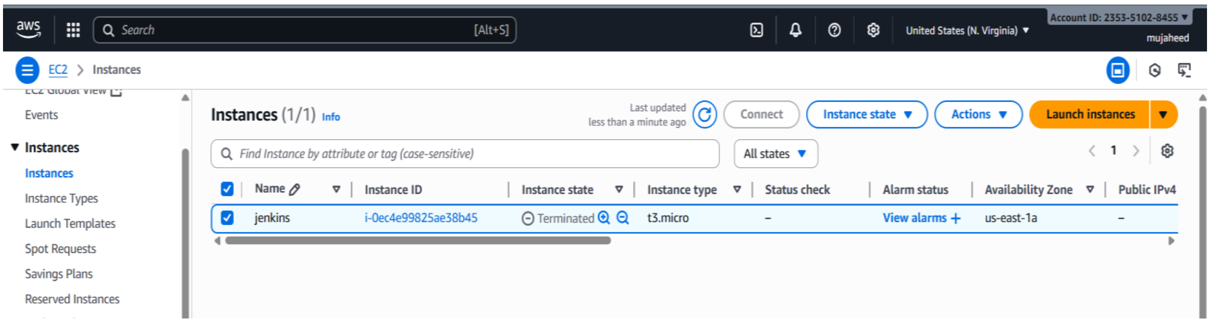


```
[root@ip-172-31-82-250 jenkins]# tar -cvf backup.tar jenkins/
tar: jenkins: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
[root@ip-172-31-82-250 jenkins]# cd ..
[root@ip-172-31-82-250 lib]# tar -cvf backup.tar jenkins
jenkins/
jenkins/.java/
jenkins/.java/fonts/
jenkins/.java/fonts/21.0.8/
jenkins/.java/fonts/21.0.8/fcinfo-1-ip-172-31-82-250.ec2.internal-amzn-2023-en-.properties
jenkins/secret.key
jenkins/secret.key.not-so-secret
jenkins/plugins/
jenkins/plugins/commons-lang3-api.jpi
jenkins/plugins/commons-lang3-api/
jenkins/plugins/commons-lang3-api/META-INF/
jenkins/plugins/commons-lang3-api/META-INF/MANIFEST.MF
jenkins/plugins/commons-lang3-api/META-INF/maven/
jenkins/plugins/commons-lang3-api/META-INF/maven/io.jenkins.plugins/
jenkins/plugins/commons-lang3-api/META-INF/maven/io.jenkins.plugins/commons-lang3-api/
jenkins/plugins/commons-lang3-api/META-INF/maven/io.jenkins.plugins/commons-lang3-api/pom.xml
jenkins/plugins/commons-lang3-api/META-INF/maven/io.jenkins.plugins/commons-lang3-api/pom.prop
jenkins/plugins/commons-lang3-api/WEB-INF/
```



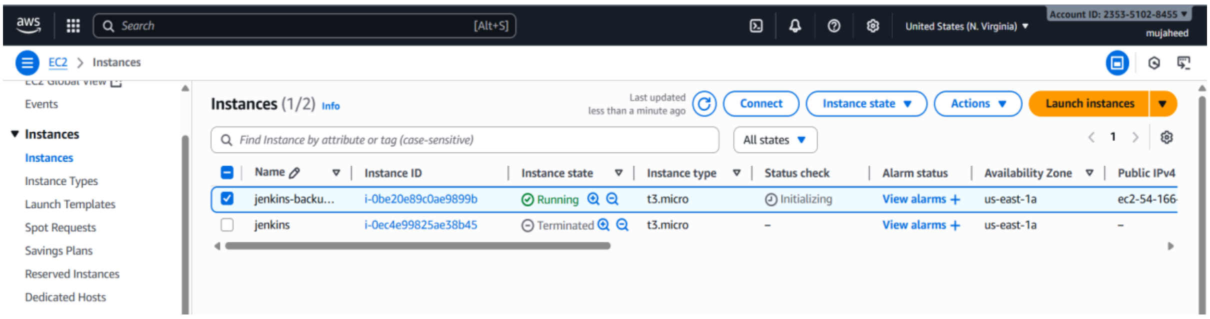
```
jenkins/backup.tar
[root@ip-172-31-82-250 lib]# ll
total 235596
drwxr-xr-x.  2 root    root          136 Oct 18 09:12 alternatives
drwxr-xr-x.  3 root    root           17 Oct  8 23:55 amazon
-rw-r--r--.  1 root    root    241233920 Oct 18 13:35 backup.tar
drwxr-x---.  2 chrony  chrony         19 Oct 18 13:08 chrony
drwxr-xr-x.  8 root    root          105 Oct 18 09:08 cloud
drwxr-xr-x.  2 root    root           80 Oct 18 09:13 dnf
drwxr-xr-x.  2 root    root            6 Jan 30  2023 games
```

If anything happens to the Jenkins server than this is used for this I will delete this server and create new Jenkins server.



Instances (1/1) Info

☑	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
☑	jenkins	i-0ec4e99825ae38b45	Terminated	t3.micro	–	View alarms +	us-east-1a	–

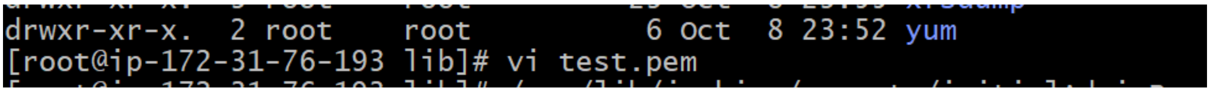


Instances (1/2) Info

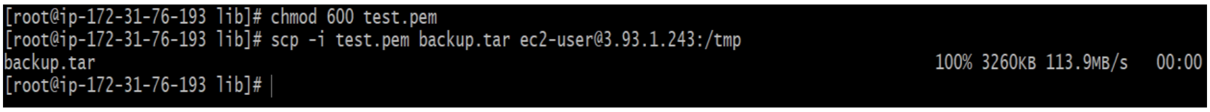
▬	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
☑	jenkins-backu...	i-0be20e89c0ae9899b	Running	t3.micro	Initializing	View alarms +	us-east-1a	ec2-54-166
□	jenkins	i-0ec4e99825ae38b45	Terminated	t3.micro	–	View alarms +	us-east-1a	–

You will do vi test.pem in old server and change mod to 600.

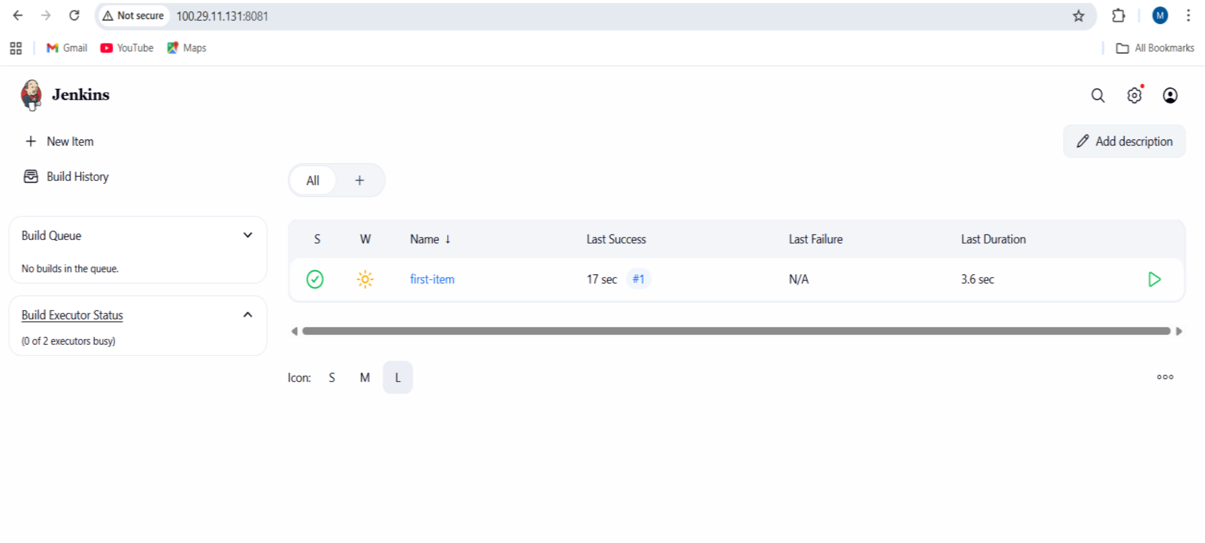
And scp -i test.pem backup.tarec2-user@and newserverip :/tmp then it will backedup you will extract that file and you can copy that and can paste in cd/var/lib/jenkins directory in new server. Restart Jenkins.then backup file will be available.



```
drwxr-xr-x.  2 root     root          6 Oct  8 23:52 yum
[root@ip-172-31-76-193 lib]# vi test.pem
```



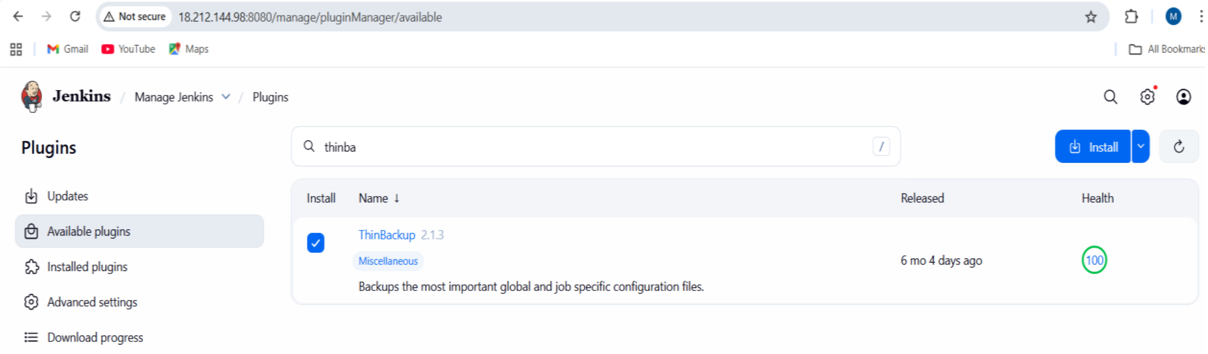
```
[root@ip-172-31-76-193 lib]# chmod 600 test.pem
[root@ip-172-31-76-193 lib]# scp -i test.pem backup.tar ec2-user@3.93.1.243:/tmp
backup.tar                                                          100% 3260KB 113.9MB/s   00:00
[root@ip-172-31-76-193 lib]# |
```



S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀	first-item	17 sec #1	N/A	3.6 sec

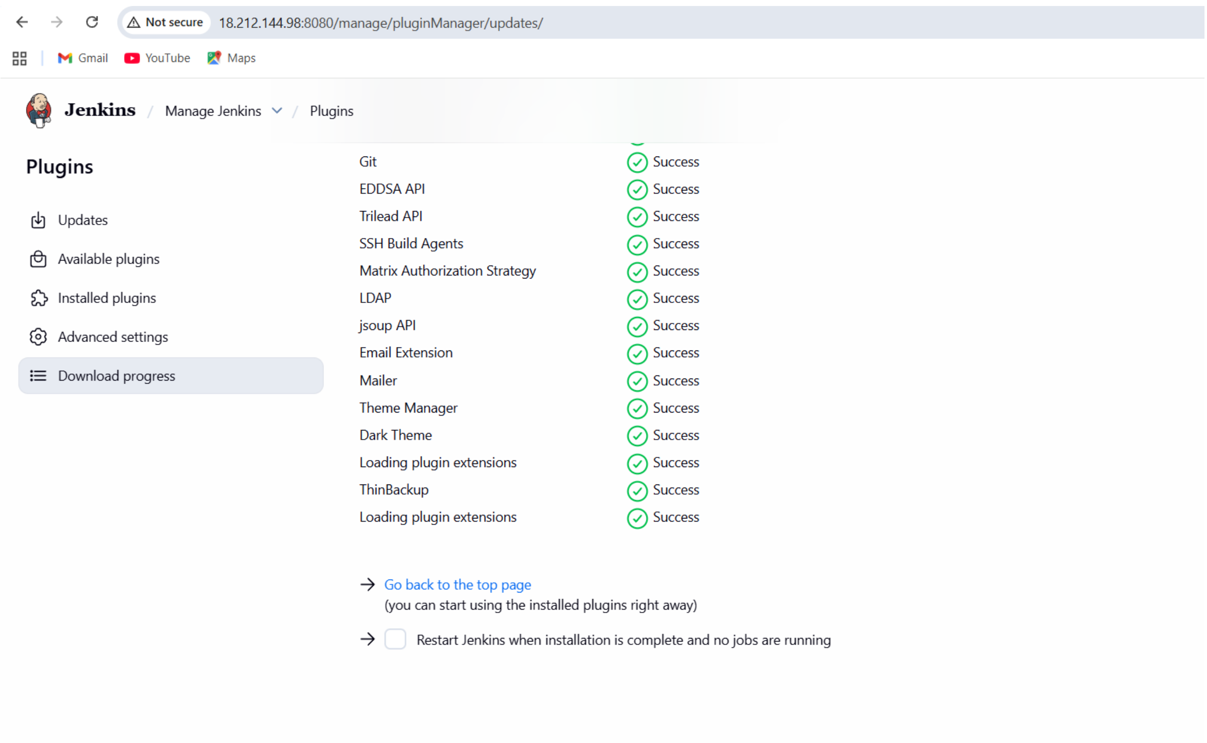
5. Take backup of Jenkins using rethin backup plugin.

Go to managed Jenkins and click on plugins and search for thinbackup and install plugin.



Search: thinba

Install	Name ↓	Released	Health
☑	ThinBackup 2.1.3 Miscellaneous Backups the most important global and job specific configuration files.	6 mo 4 days ago	100

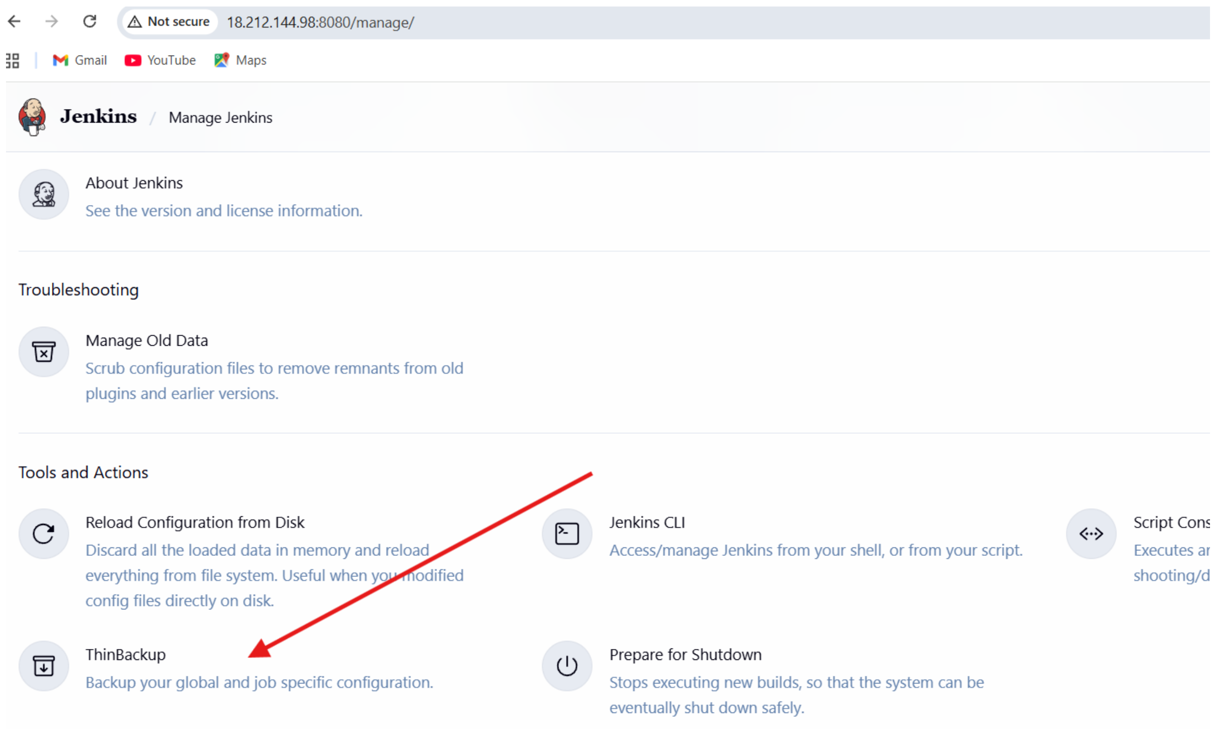


Git	✓ Success
EDDSA API	✓ Success
Trilead API	✓ Success
SSH Build Agents	✓ Success
Matrix Authorization Strategy	✓ Success
LDAP	✓ Success
jsoup API	✓ Success
Email Extension	✓ Success
Mailer	✓ Success
Theme Manager	✓ Success
Dark Theme	✓ Success
Loading plugin extensions	✓ Success
ThinBackup	✓ Success
Loading plugin extensions	✓ Success

→ Go back to the top page
(you can start using the installed plugins right away)

→ □ Restart Jenkins when installation is complete and no jobs are running

Again go to managed Jenkins and click on thinbackup.



About Jenkins
See the version and license information.

Troubleshooting

Manage Old Data
Scrub configuration files to remove remnants from old plugins and earlier versions.

Tools and Actions

Reload Configuration from Disk
Discard all the loaded data in memory and reload everything from file system. Useful when you modified config files directly on disk.

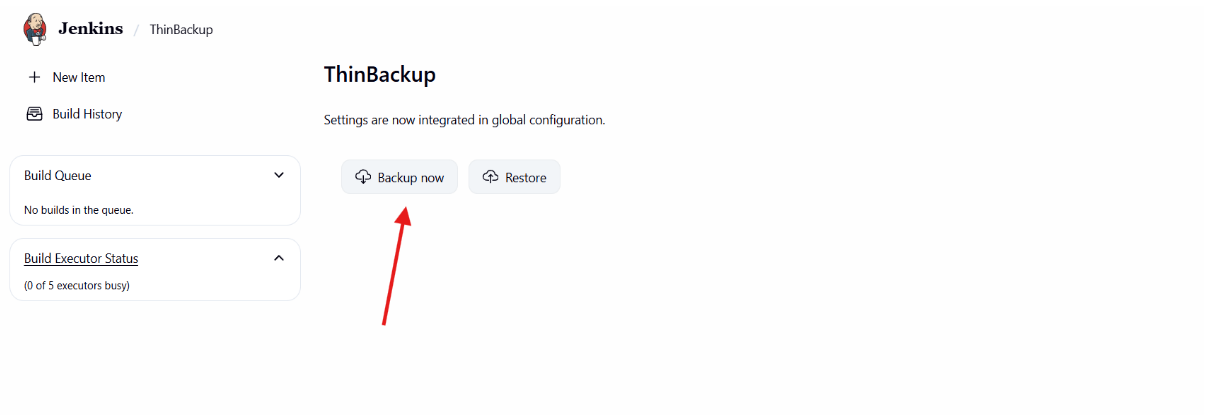
Jenkins CLI
Access/manage Jenkins from your shell, or from your script.

Script Cons
Executes ar
shooting/d

ThinBackup
Backup your global and job specific configuration.

Prepare for Shutdown
Stops executing new builds, so that the system can be eventually shut down safely.

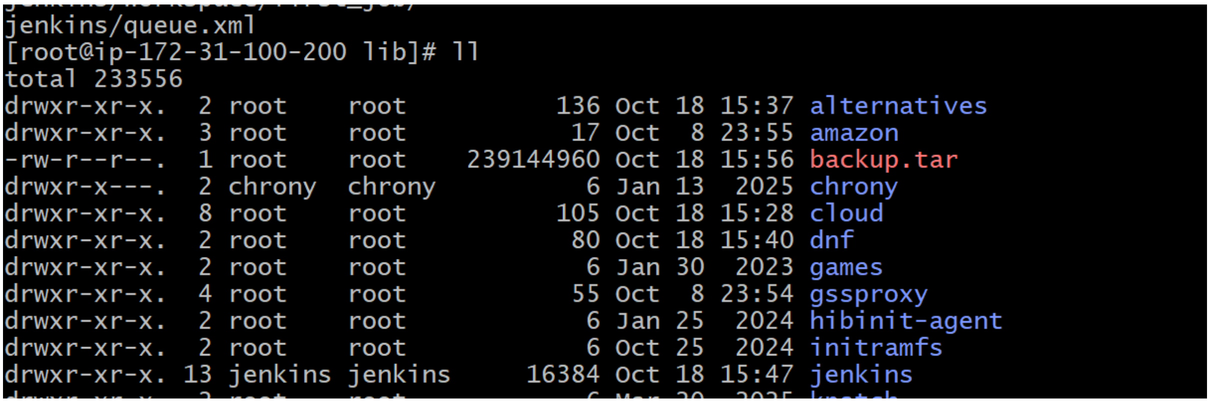
Click on backup now.



Settings are now integrated in global configuration.

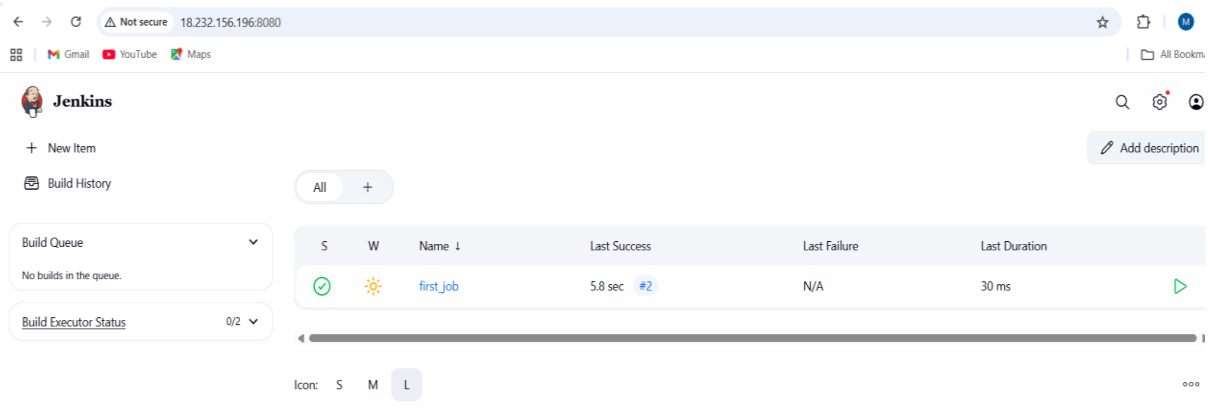
6.Setup a new Jenkins server and dump the backup taken in task4.

We are having backup file.



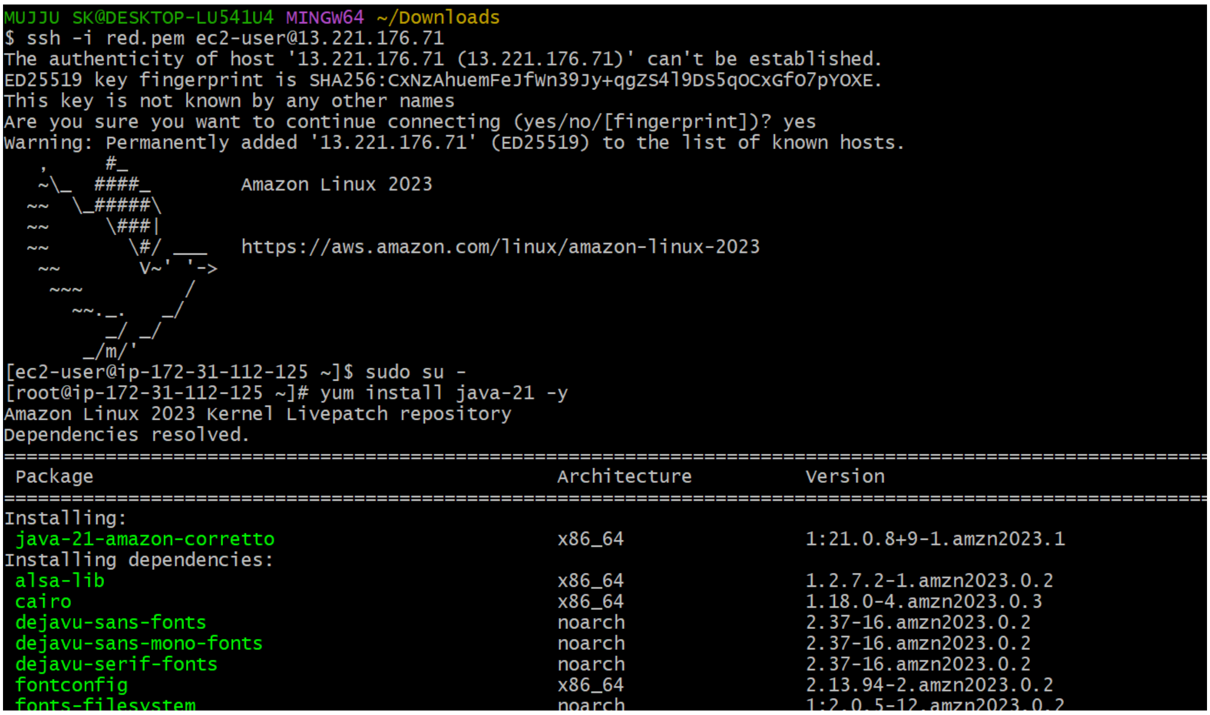
```
jenkins/workspace/first_job/
jenkins/queue.xml
[root@ip-172-31-100-200 lib]# ll
total 233556
drwxr-xr-x.  2 root     root           136 Oct 18 15:37 alternatives
drwxr-xr-x.  3 root     root            17 Oct  8 23:55 amazon
-rw-r--r--.  1 root     root     239144960 Oct 18 15:56 backup.tar
drwxr-x---.  2 chrony   chrony           6 Jan 13  2025 chrony
drwxr-xr-x.  8 root     root           105 Oct 18 15:28 cloud
drwxr-xr-x.  2 root     root            80 Oct 18 15:40 dnf
drwxr-xr-x.  2 root     root             6 Jan 30  2023 games
drwxr-xr-x.  4 root     root            55 Oct  8 23:54 gssproxy
drwxr-xr-x.  2 root     root             6 Jan 25  2024 hibinit-agent
drwxr-xr-x.  2 root     root             6 Oct 25  2024 initramfs
drwxr-xr-x. 13 jenkins  jenkins      16384 Oct 18 15:47 jenkins
drwxr-xr-x.  2 root     root             6 Mar 20  2025 kpatch
```

We are having this job in old server.



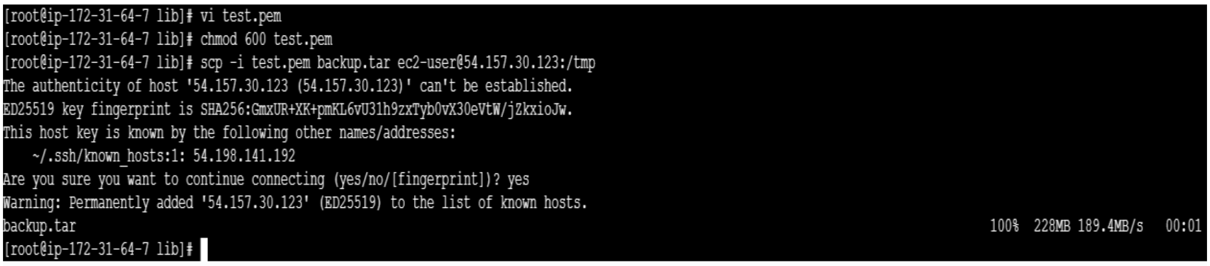
S	W	Name ↓	Last Success	Last Failure	Last Duration	
✓	☀	first_job	5.8 sec #2	N/A	30 ms	▷

install java and Jenkins in server 2



```
MUJJU SK@DESKTOP-LU541U4 MINGW64 ~/Downloads
$ ssh -i red.pem ec2-user@13.221.176.71
The authenticity of host '13.221.176.71 (13.221.176.71)' can't be established.
ED25519 key fingerprint is SHA256:CxNzAhuemFeJfWn39Jy+qgZS4l9DS5qOCxGfO7pYOXE.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.221.176.71' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-172-31-112-125 ~]$ sudo su -
[root@ip-172-31-112-125 ~]# yum install java-21 -y
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
================================================================================================
 Package                                        Architecture        Version
================================================================================================
Installing:
 java-21-amazon-corretto                        x86_64              1:21.0.8+9-1.amzn2023.1
Installing dependencies:
 alsa-lib                                       x86_64              1.2.7.2-1.amzn2023.0.2
 cairo                                          x86_64              1.18.0-4.amzn2023.0.3
 dejavu-sans-fonts                              noarch              2.37-16.amzn2023.0.2
 dejavu-sans-mono-fonts                         noarch              2.37-16.amzn2023.0.2
 dejavu-serif-fonts                             noarch              2.37-16.amzn2023.0.2
 fontconfig                                     x86_64              2.13.94-2.amzn2023.0.2
 fonts-filesystem                               noarch              1:2.0.5-12.amzn2023.0.2
```

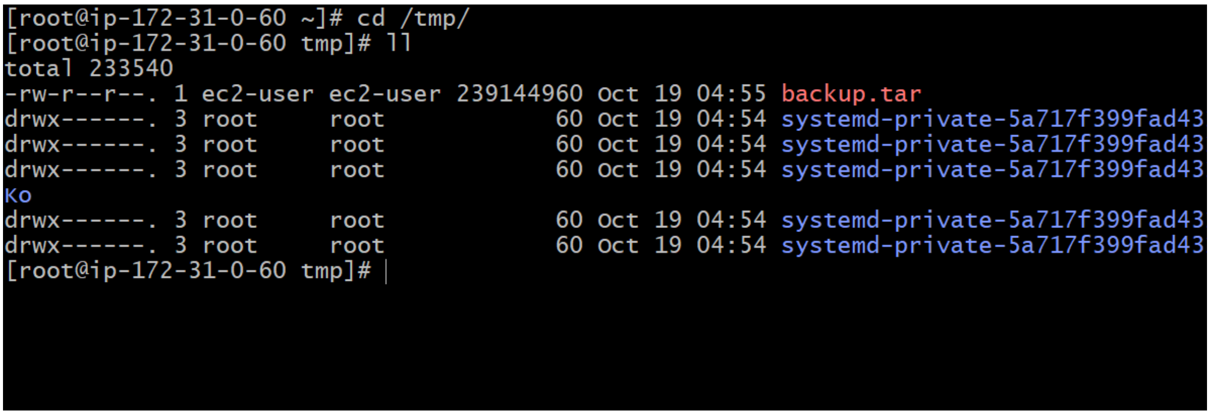
- In old server copy the pem key by using vi test.pem.
- Change permissions to 600.
- Do scp-i test.pem backup.tar ec2-user@ipofnew server:/tmp



```
[root@ip-172-31-64-7 lib]# vi test.pem
[root@ip-172-31-64-7 lib]# chmod 600 test.pem
[root@ip-172-31-64-7 lib]# scp -i test.pem backup.tar ec2-user@54.157.30.123:/tmp
The authenticity of host '54.157.30.123 (54.157.30.123)' can't be established.
ED25519 key fingerprint is SHA256:GmxUR+XK+pmKL6vU31h9zxTyb0vX30eVtW/jZkxioJw.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:1: 54.198.141.192
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '54.157.30.123' (ED25519) to the list of known hosts.
backup.tar                                                                100%  228MB 189.4MB/s   00:01
[root@ip-172-31-64-7 lib]#
```

Go to the tmp file in backup server and copy it and paste to lib directory.

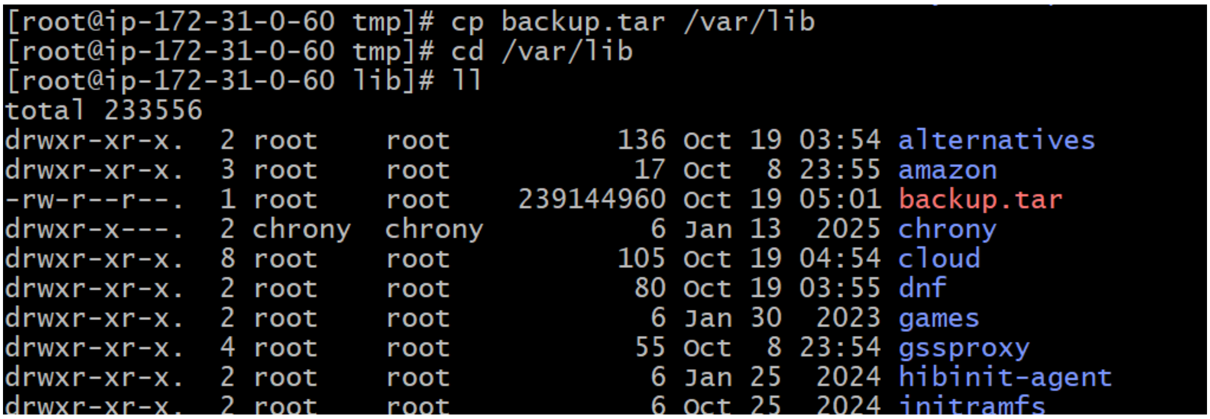
- Cd /tmp/
- cp backup.tar /var/lib



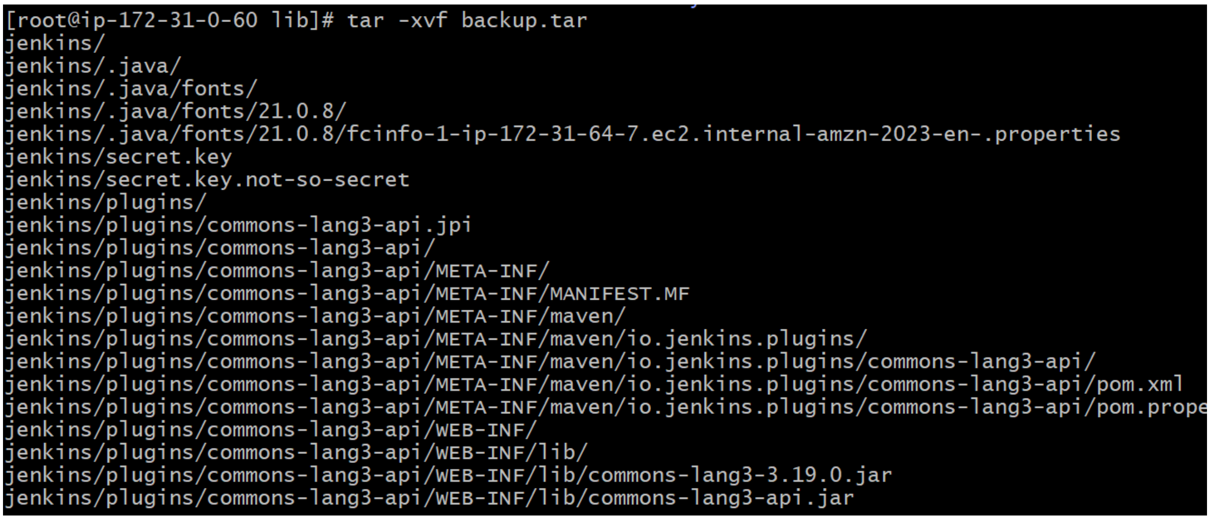
```
[root@ip-172-31-0-60 ~]# cd /tmp/
[root@ip-172-31-0-60 tmp]# ll
total 233540
-rw-r--r--. 1 ec2-user ec2-user 239144960 Oct 19 04:55 backup.tar
drwx------. 3 root     root            60 Oct 19 04:54 systemd-private-5a717f399fad43
drwx------. 3 root     root            60 Oct 19 04:54 systemd-private-5a717f399fad43
drwx------. 3 root     root            60 Oct 19 04:54 systemd-private-5a717f399fad43
Ko
drwx------. 3 root     root            60 Oct 19 04:54 systemd-private-5a717f399fad43
drwx------. 3 root     root            60 Oct 19 04:54 systemd-private-5a717f399fad43
[root@ip-172-31-0-60 tmp]# |
```

then go to lib directory and extract the file.

- cd var/lib
- tar -xvf backup.tar

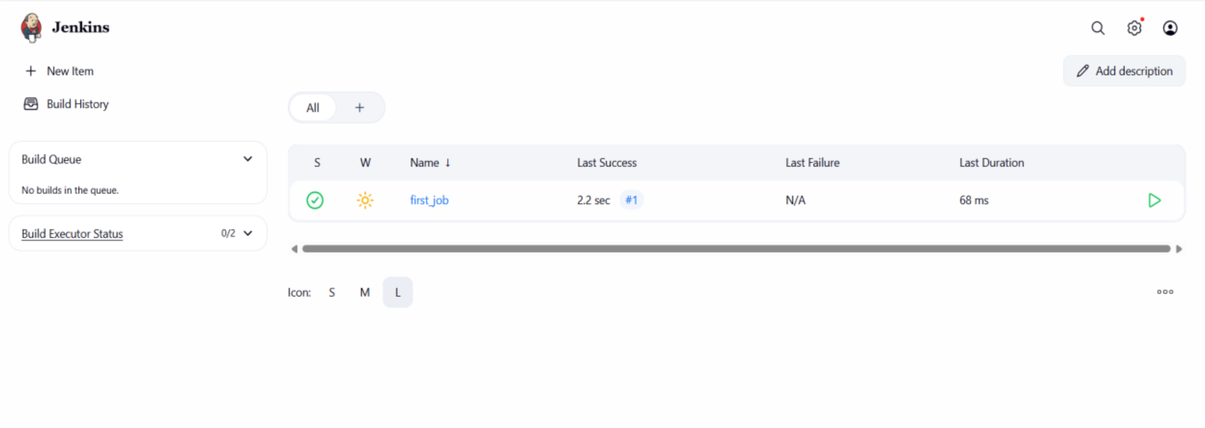


```
[root@ip-172-31-0-60 tmp]# cp backup.tar /var/lib
[root@ip-172-31-0-60 tmp]# cd /var/lib
[root@ip-172-31-0-60 lib]# ll
total 233556
drwxr-xr-x.  2 root    root          136 Oct 19 03:54 alternatives
drwxr-xr-x.  3 root    root           17 Oct  8 23:55 amazon
-rw-r--r--.  1 root    root    239144960 Oct 19 05:01 backup.tar
drwxr-x---.  2 chrony  chrony          6 Jan 13  2025 chrony
drwxr-xr-x.  8 root    root          105 Oct 19 04:54 cloud
drwxr-xr-x.  2 root    root           80 Oct 19 03:55 dnf
drwxr-xr-x.  2 root    root            6 Jan 30  2023 games
drwxr-xr-x.  4 root    root           55 Oct  8 23:54 gssproxy
drwxr-xr-x.  2 root    root            6 Jan 25  2024 hibinit-agent
drwxr-xr-x.  2 root    root            6 Oct 25  2024 initramfs
```



```
[root@ip-172-31-0-60 lib]# tar -xvf backup.tar
jenkins/
jenkins/.java/
jenkins/.java/fonts/
jenkins/.java/fonts/21.0.8/
jenkins/.java/fonts/21.0.8/fcinfo-1-ip-172-31-64-7.ec2.internal-amzn-2023-en-.properties
jenkins/secret.key
jenkins/secret.key.not-so-secret
jenkins/plugins/
jenkins/plugins/commons-lang3-api.jpi
jenkins/plugins/commons-lang3-api/
jenkins/plugins/commons-lang3-api/META-INF/
jenkins/plugins/commons-lang3-api/META-INF/MANIFEST.MF
jenkins/plugins/commons-lang3-api/META-INF/maven/
jenkins/plugins/commons-lang3-api/META-INF/maven/io.jenkins.plugins/
jenkins/plugins/commons-lang3-api/META-INF/maven/io.jenkins.plugins/commons-lang3-api/
jenkins/plugins/commons-lang3-api/META-INF/maven/io.jenkins.plugins/commons-lang3-api/pom.xml
jenkins/plugins/commons-lang3-api/META-INF/maven/io.jenkins.plugins/commons-lang3-api/pom.prope
jenkins/plugins/commons-lang3-api/WEB-INF/
jenkins/plugins/commons-lang3-api/WEB-INF/lib/
jenkins/plugins/commons-lang3-api/WEB-INF/lib/commons-lang3-3.19.0.jar
jenkins/plugins/commons-lang3-api/WEB-INF/lib/commons-lang3-api.jar
```

Restart the Jenkins server.



Build Queue

No builds in the queue.

S	W	Name ↓	Last Success	Last Failure	Last Duration	
✓	☀	first_job	2.2 sec #1	N/A	68 ms	▷