

1) Configure 2 slave machines in jenkins master.

Dashboard >

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

Built-In Node

1/2

third_job

#1

slave-01

0/2

slave-02

2/2

first_job_webhook

#7

second_job

#1

All

+

S	W	Name ↓	Last Success	Last Failure	Last Duration	
✓	☀	first_job_webhook	3 min 9 sec #6	N/A	16 sec	▶
⋮	☀	second_job	N/A	N/A	N/A	▶
⋮	☀	third_job	N/A	N/A	N/A	▶

Icon: S M L

REST API Jenkins 2.504.3

Jenkins

🔍 🛡️ 👤 Mohammed Aslam 📄 log out

Dashboard > Manage Jenkins > Nodes >

Nodes

Clouds

Build Queue

No builds in the queue.

Build Executor Status

Built-In Node

0/2

slave-01

0/2

slave-02

0/2

+ New Node

Configure Monitors

🔄

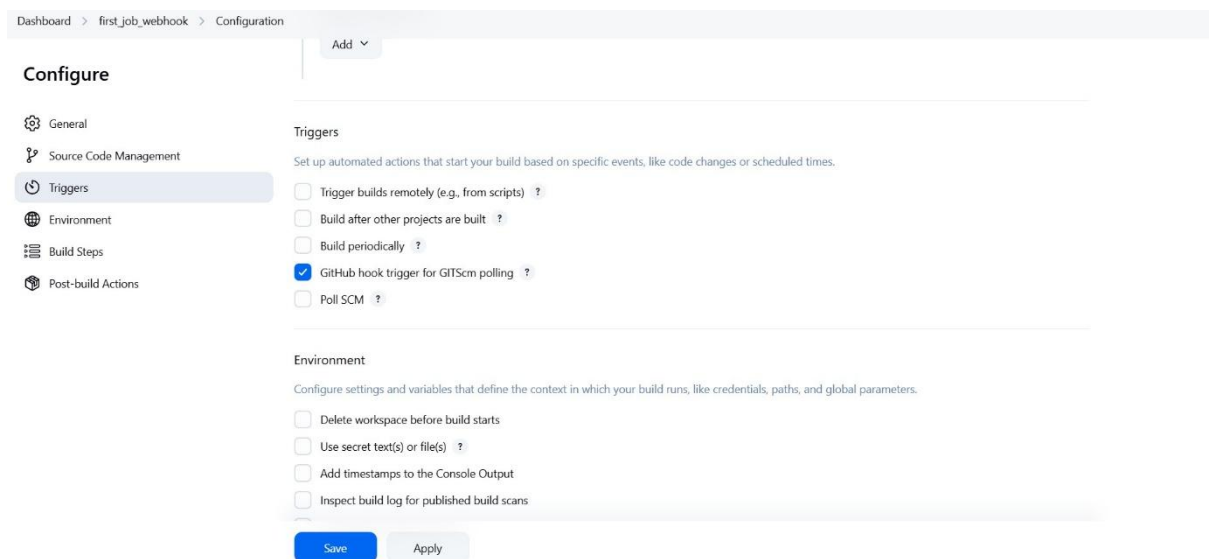
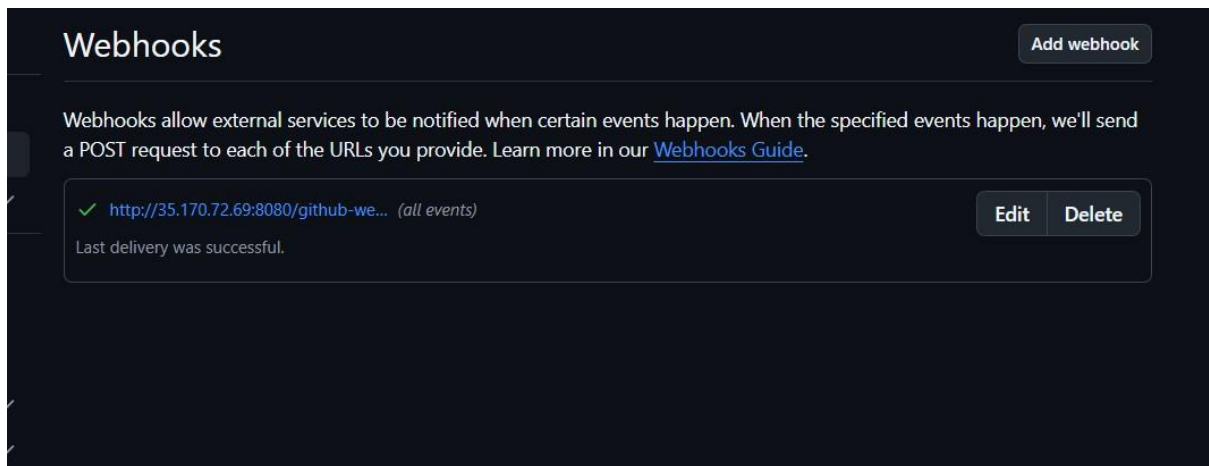
S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time	
🖥	Built-In Node	Linux (amd64)	In sync	3.94 GiB	🔴 0 B	3.94 GiB	0ms	⚙️
🖥	slave-01	Linux (amd64)	In sync	4.37 GiB	🔴 0 B	4.37 GiB	51ms	⚙️
🖥	slave-02	Linux (amd64)	In sync	4.38 GiB	🔴 0 B	4.38 GiB	63ms	⚙️
Data obtained		0.43 sec	0.36 sec	0.36 sec	0.33 sec	0.36 sec	0.37 sec	

Icon: S M L

Legend

REST API Jenkins 2.504.3

2) Configure webhooks to jenkins job.



3) Configure poll scm and build periodical options in jenkins job.

Poll scm

Console Output

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```
Started by an SCM change
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/first_job_webhook
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/first_job_webhook/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/alsamdevops/Techie_horizon_Login_app.git # timeout=10
Fetching upstream changes from https://github.com/alsamdevops/Techie_horizon_Login_app.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/alsamdevops/Techie_horizon_Login_app.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision fa297b5c24fb392edbe00ff8330c8e0b4a9c8fd7 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f fa297b5c24fb392edbe00ff8330c8e0b4a9c8fd7 # timeout=10
Commit message: "Update README.md"
> git rev-list --no-walk 8a9385cccb6d6c1c9533528abebe274e959bc250 # timeout=10
[first_job_webhook] $ /bin/sh -xe /tmp/jenkins17269553211296070182.sh
+ sleep 10
Finished: SUCCESS
```

Build periodical

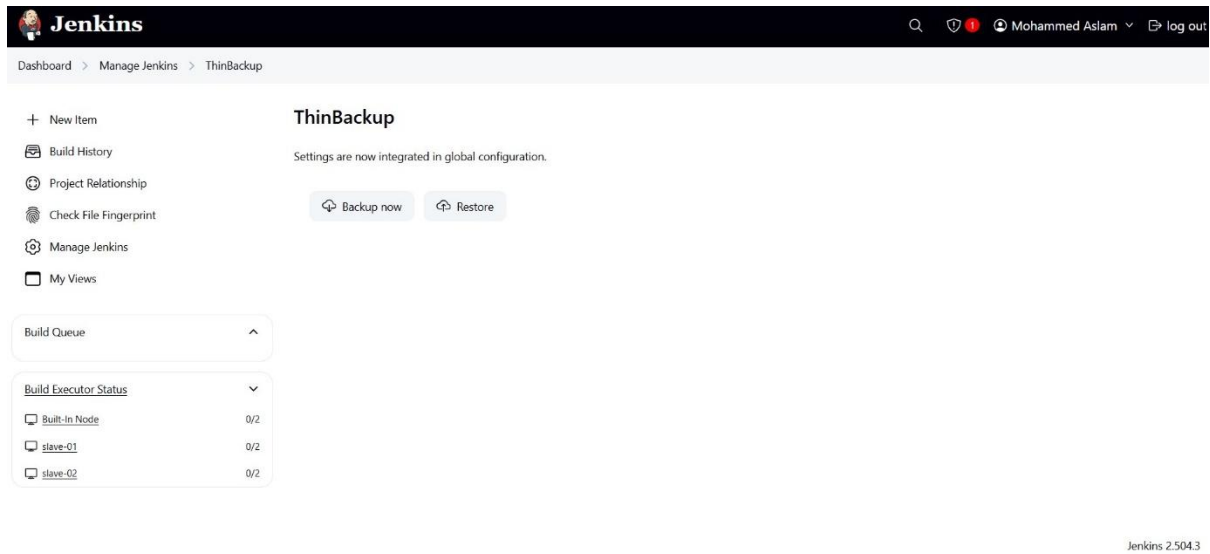
```
Started by timer
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/first_job_webhook
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/first_job_webhook/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/alsamdevops/Techie_horizon_Login_app.git # timeout=10
Fetching upstream changes from https://github.com/alsamdevops/Techie_horizon_Login_app.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/alsamdevops/Techie_horizon_Login_app.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 8a9385cccb6d6c1c9533528abebe274e959bc250 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 8a9385cccb6d6c1c9533528abebe274e959bc250 # timeout=10
Commit message: "Update README.md"
> git rev-list --no-walk 8a9385cccb6d6c1c9533528abebe274e959bc250 # timeout=10
[first_job_webhook] $ /bin/sh -xe /tmp/jenkins16312091410498926482.sh
+ sleep 10
Finished: SUCCESS
```

4) Take backup of jenkins server by using bash script.

```
root@ip-172-31-12-205:~# ls
BACKUP_FILE  jenkins.bash  snap
root@ip-172-31-12-205:~# ./jenkins.bash
tar: Removing leading '/' from member names
/var/lib/jenkins/
/var/lib/jenkins/userContent/
/var/lib/jenkins/userContent/readme.txt
/var/lib/jenkins/secret.key
/var/lib/jenkins/jenkins.model.JenkinsLocationConfiguration.xml
/var/lib/jenkins/credentials.xml
/var/lib/jenkins/.java/
/var/lib/jenkins/.java/fonts/
/var/lib/jenkins/.java/fonts/21.0.7/
/var/lib/jenkins/.java/fonts/21.0.7/fcinfo-1-ip-172-31-12-205-Ubuntu-24.04-en-.properties
/var/lib/jenkins/nodeMonitors.xml
/var/lib/jenkins/jenkins.install.InstallUtil.lastExecVersion
/var/lib/jenkins/hudson.plugins.git.GitTool.xml
/var/lib/jenkins/secrets/
/var/lib/jenkins/secrets/master.key
/var/lib/jenkins/secrets/hudson.console.ConsoleNote.MAC
/var/lib/jenkins/secrets/hudson.util.Secret
/var/lib/jenkins/secrets/org.jenkinsci.main.modules.instance_identity.InstanceIdentity.KEY
/var/lib/jenkins/secrets/hudson.console.AnnotatedLargeText.consoleAnnotator
/var/lib/jenkins/secrets/jenkins.model.Jenkins.crumbSalt
/var/lib/jenkins/secrets/hudson.model.Job.serverCookie
/var/lib/jenkins/jenkins.install.UpgradeWizard.state
/var/lib/jenkins/plugins/
/var/lib/jenkins/plugins/ssh-credentials/
/var/lib/jenkins/plugins/ssh-credentials/WEB-INF/
/var/lib/jenkins/plugins/ssh-credentials/WEB-INF/lib/
/var/lib/jenkins/plugins/ssh-credentials/WEB-INF/lib/ssh-credentials.jar
/var/lib/jenkins/plugins/ssh-credentials/WEB-INF/licenses.xml
/var/lib/jenkins/plugins/ssh-credentials/META-INF/
/var/lib/jenkins/plugins/ssh-credentials/META-INF/MANIFEST.MF
/var/lib/jenkins/plugins/ssh-credentials/META-INF/maven/
/var/lib/jenkins/plugins/ssh-credentials/META-INF/maven/org.jenkins-ci.plugins/
/var/lib/jenkins/plugins/ssh-credentials/META-INF/maven/org.jenkins-ci.plugins/ssh-credentials/
/var/lib/jenkins/plugins/ssh-credentials/META-INF/maven/org.jenkins-ci.plugins/ssh-credentials/pom.properties
/var/lib/jenkins/plugins/ssh-credentials/META-INF/maven/org.jenkins-ci.plugins/ssh-credentials/pom.xml
/var/lib/jenkins/plugins/ssh-credentials/.timestamp2
/var/lib/jenkins/plugins/commons-text-api/
/var/lib/jenkins/plugins/commons-text-api/WEB-INF/
/var/lib/jenkins/plugins/commons-text-api/WEB-INF/lib/
/var/lib/jenkins/plugins/commons-text-api/WEB-INF/lib/commons-text-api.jar
/var/lib/jenkins/plugins/commons-text-api/WEB-INF/lib/commons-text-1.13.1.jar
/var/lib/jenkins/plugins/commons-text-api/WEB-INF/licenses.xml
/var/lib/jenkins/plugins/commons-text-api/META-INF/
/var/lib/jenkins/plugins/commons-text-api/META-INF/MANIFEST.MF
/var/lib/jenkins/plugins/commons-text-api/META-INF/maven/
/var/lib/jenkins/plugins/commons-text-api/META-INF/maven/io.jenkins.plugins/
/var/lib/jenkins/plugins/commons-text-api/META-INF/maven/io.jenkins.plugins/commons-text-api/
/var/lib/jenkins/plugins/commons-text-api/META-INF/maven/io.jenkins.plugins/commons-text-api/pom.properties
/var/lib/jenkins/plugins/commons-text-api/META-INF/maven/io.jenkins.plugins/commons-text-api/pom.xml
/var/lib/jenkins/plugins/commons-text-api/.timestamp2
```

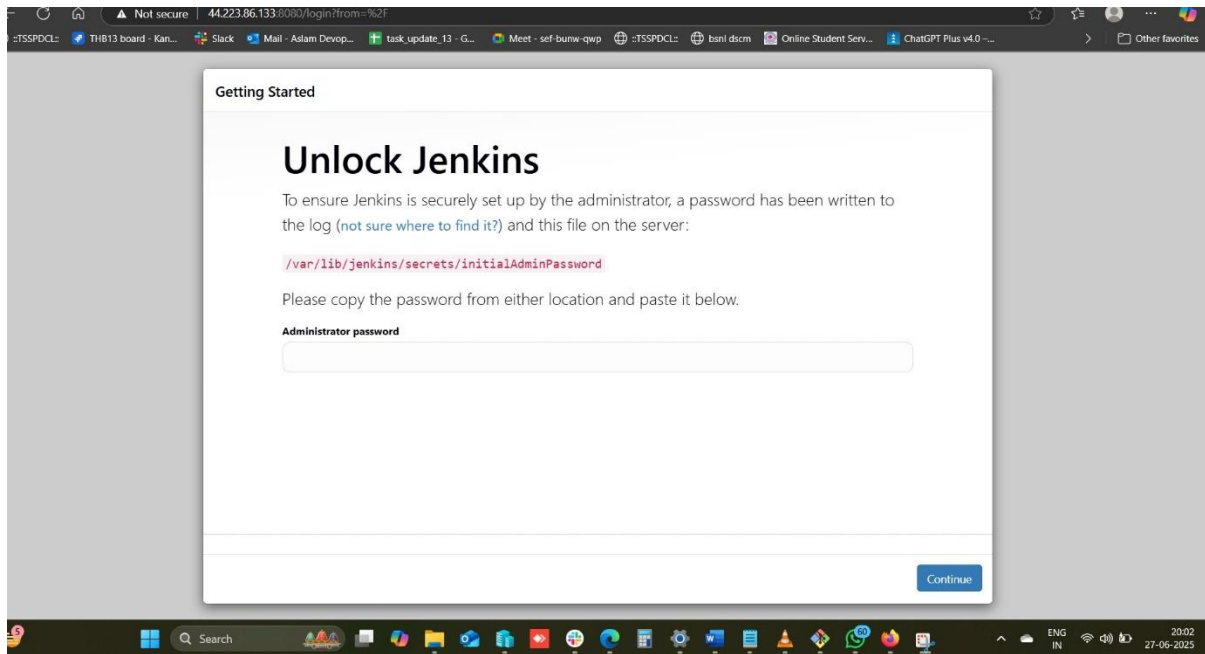
```
root@ip-172-31-12-205: /home/ubuntu
root@ip-172-31-12-205:~# cd /home/ubuntu/
root@ip-172-31-12-205:/home/ubuntu# ls
'jenkinsbackup2025-06-27_12-48-01.tar '
root@ip-172-31-12-205:/home/ubuntu#
```

5) Take backup of jenkins using thin backup plugin.



The screenshot shows the Jenkins ThinBackup plugin interface. The top navigation bar includes the Jenkins logo, a search icon, a shield icon with a red dot, a user profile for 'Mohammed Aslam', and a 'log out' button. The breadcrumb trail is 'Dashboard > Manage Jenkins > ThinBackup'. On the left sidebar, there is a 'New Item' button and a list of links: 'Build History', 'Project Relationship', 'Check File Fingerprint', 'Manage Jenkins', and 'My Views'. The main content area is titled 'ThinBackup' and contains the message 'Settings are now integrated in global configuration.' Below this message are two buttons: 'Backup now' and 'Restore'. At the bottom left, there are two expandable sections: 'Build Queue' (collapsed) and 'Build Executor Status' (expanded). The 'Build Executor Status' section shows a table with three rows: 'Built-In Node' (0/2), 'slave-01' (0/2), and 'slave-02' (0/2). The bottom right corner of the page displays 'Jenkins 2.504.3'.

6) Setup a new jenkins server and dump the backup taken in task4



Backup restored

```
root@ip-172-31-14-139:/var/lib/jenkins# ls
config.xml          hudson.plugins.email_extended_email_publisher.xml  jenkins.install.upgradewizard.state  logs          queue.xml.bak  thinbackup  workspace
credentials.xml     hudson.plugins.git.git_tool.xml                  jenkins.model.jenkins_location_configuration.xml  nodes         secret.key     updates
fingerprints        identity.key.enc                                   jenkins.telemetry.correlator.xml             plugins        secret.key.not-so-secret  usercontent
jenkinsbackup.tar   hudson.model.update_center.xml                    jobs                                           jenkinsinstall.lastexecversion  secrets        users
root@ip-172-31-14-139:/var/lib/jenkins#
```