Jenkins 02

1) Configure 2 slave machines in jenkins master

→ Launched two slave instances and one master instance:

Genereated ssh-key and copied public key into authorized_keys

Changed permissions to 700 for authorized _keys

→In Master machine configure slave's ssh key using ssh-keyscan command ssh-keyscan-H slave-ip >> /var/lib/jenkins/.ssh/known_hosts

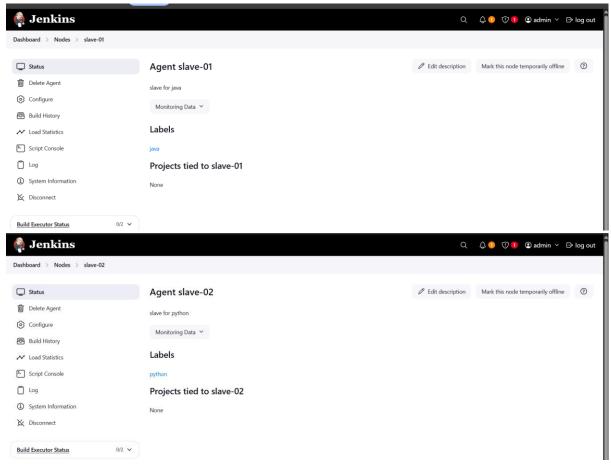
Permissions 700 for known_hosts

Change ownership to for known_hosts to Jenkins

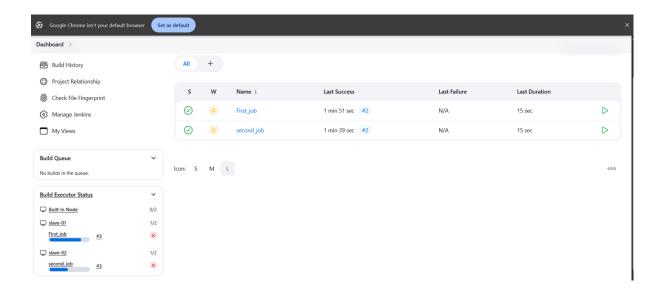
→In Jenkins web app:

Manage jenkins--> Nodes--> New node
Create two nodes with two slave ec2 instance lps

→ Created two slave machines in jenkins master

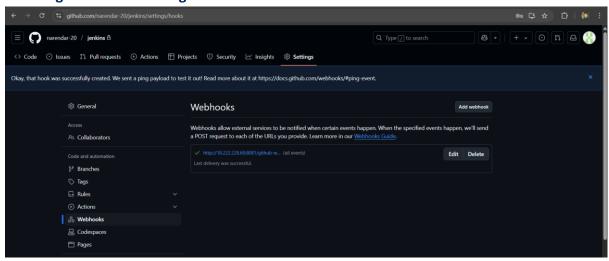


→Two jobs working on two nodes

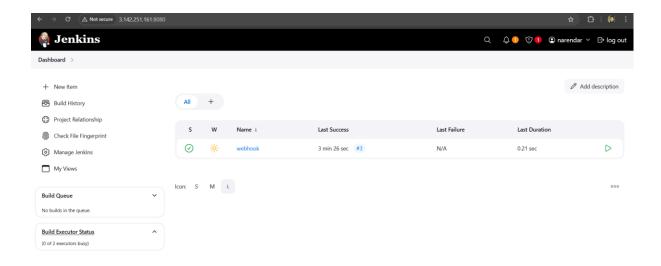


2) Configure webhooks to jenkins job.

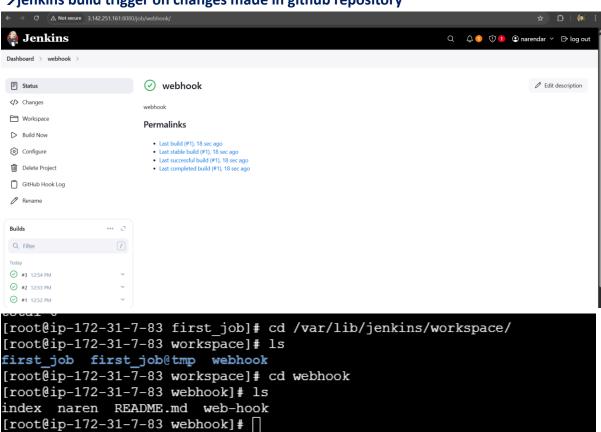
→ Configured webhook in github



→ Created job for webhook

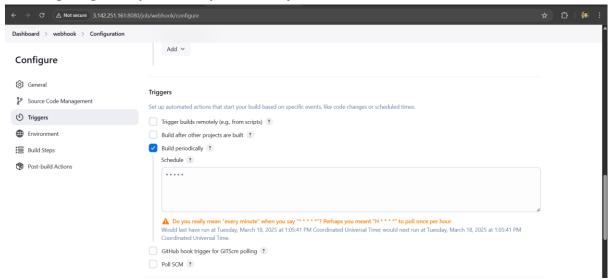


→ jenkins build trigger on changes made in github repository

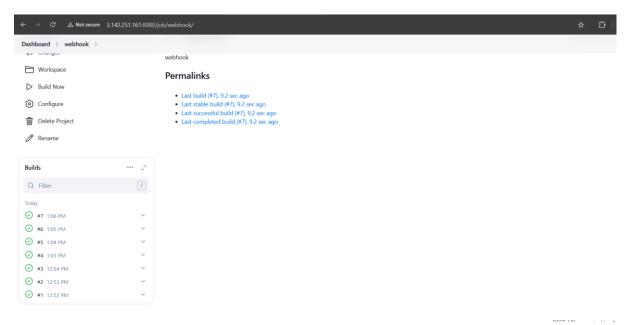


3) Configure poll scm and build periodical options in jenkins job.

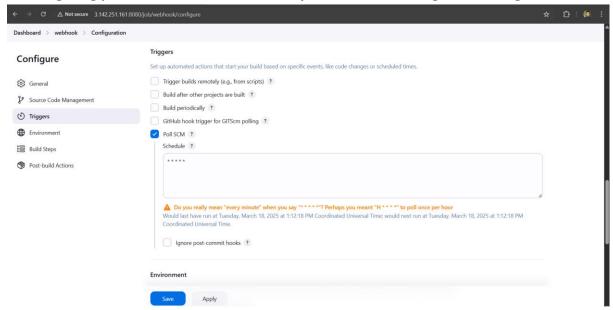
→ Configuring Build periodically in Jenkins job



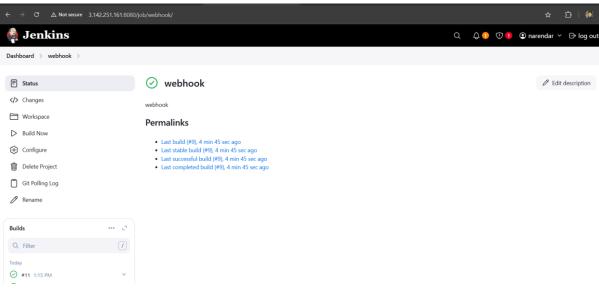
→ Build tringgering every 15 seconds even there is no change in github repo



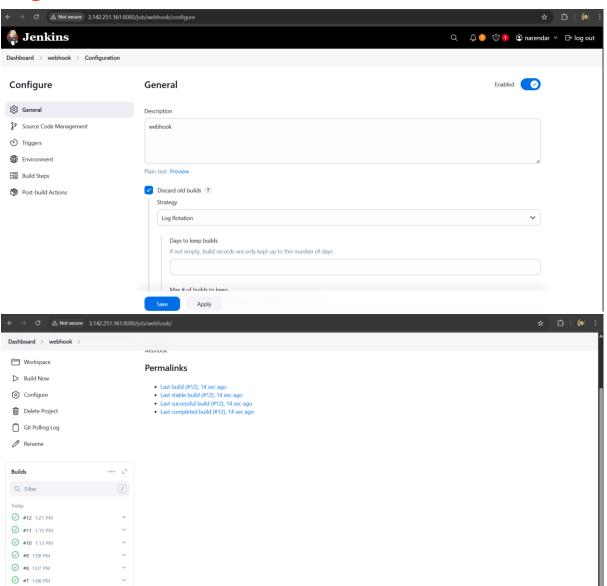
→configuring pole scm to make a build every 15 seconds if changes made in github



→build triggered only there made changes in github repo



Log rotation:



- 4) Take backup of jenkins server by using bash script:
 - → Script to make a backup for jenkins server
 - → create a backup dir to have backups into it (/root/backup in my case)

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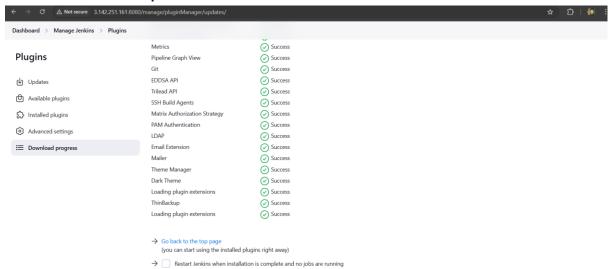
→backing up jenkins jenkins serve: ./backup.sh

```
/var/lib/jenkins/workspace/v-profile/src/main/webapp/resources/lmages/technologies/jenkins.png
/var/lib/jenkins/workspace/v-profile/src/main/webapp/resources/lmages/technologies/jenkins.png
/var/lib/jenkins/workspace/v-profile/src/main/webapp/resources/lmages/technologies/puppet.jpg
/var/lib/jenkins/workspace/v-profile/src/main/webapp/resources/lmages/technologies/python-logo.png
/var/lib/jenkins/workspace/v-profile/src/main/webapp/resources/lmages/visualpath.png
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/var/lib/jenkins/workspace/v-profile/src/main/webapp/resources/css//war/lib/jenkins/workspace/v-profile/src/main/webapp/resources/css//war/lib/jenkins/workspace/v-profile/src/main/webapp/resources/css//war/lib/jenkins/workspace/v-profile/src/main/webapp/resources/css//spocstrap_min_css
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```

→ backup file created in desired location

5) Take backup of jenkins using rethin backup plugin.

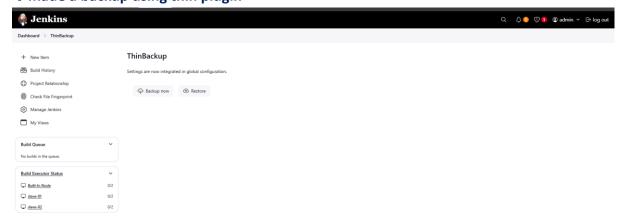
→Installed thin backup



→ configuring backup path, backup schedule for full backups and number of backup sets



→ made a backup using thin plugin



→ Backup done in desired Location

```
[root@ip=172-31-40-167 backup]# 1s
FULL-2025-03-18_15-48
[root@ip=172-31-40-167 backup]# cd FULL-2025-03-18_15-48/
[root@ip=172-31-40-167 backup]# cd FULL-2025-03-18_15-48/
[root@ip=172-31-40-167 backup]# cd FULL-2025-03-18_15-48]# 1s
backup-completed.info
com.cloudbees.budson.plugins.folder.config.AbstractFolderConfiguration.xml
github-plugin-configuration.xml
hudson.plugins.onfiguration.xml
hudson.plugins.build_timeout.global.GlobalTimeOutConfiguration.xml
hudson.plugins.build_timeout.operations.BuildStepOperation.xml
hudson.plugins.emailext.ExtendedEmailPublisher.xml
hudson.plugins.git.GitSCM.xml
hudson.plugins.git.GitSCM.xml
hudson.plugins.gradle.enriched.EnrichedSummaryConfig.xml
hudson.plugins.gradle.injection.InjectionConfig.xml
hudson.plugins.gradle.injection.InjectionConfig.xml
hudson.plugins.gradle.injection.InjectionConfig.xml
hudson.plugins.gradle.injection.InjectionConfig.xml
hudson.tasks.Mailer.xml
hudson.tasks.Mailer.xml
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jenkins.plugins.junit.storage.JunitTestResultStorageConfiguration.xml
jenkins.fingerprints.GlobalFingerprintConfiguration.xml
jenkins.model.ArtifactManagerConfiguration.xml
jenkins.model.ArtifactManagerConfiguration.xml
jenkins.model.lobalBuildDiscarderConfiguration.xml
jenkins.model.lobalBuildDiscarderConfiguration.xml
jenkins.model.lobalBuildDiscarderConfiguration.xml
jenkins.souchle.globalComputerRetentionCheckIntervalConfiguration.xml
jenkins.souchle.globalComputerRetentionConfiguration.xml
jenkins.souchle.globalConfiguration.xml
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```

- 6) Setup a new jenkins server and dump the backup taken in task4.
 - → launched a new backup server (normal ec2 instance)
 - → installed Jenkins
 - → scp bakcup file from master to backup server

Scp-i key.pem /backup.tar.gz ec2-user@ip-backupserver:/dest/pat

```
[root@ip-172-31-40-167 -]# | s
oackup backup,sh test-rds.pem
[root@ip-172-31-40-167 -]# scp -i test-rds.pem /root/backup/jenkins_backup_2025-03-18_16-33-27.tar.gz ec2-user@13.208.172.103:/home/ec2-user/temp
jenkins_backup_2025-03-18_16-33-27.tar.gz
[root@ip-172-31-40-167 -]# |
```

→ Backup file received from main server

```
[ec2-user@ip-172-31-44-68 temp]$ ls
jenkins_backup_2025-03-18_16-33-27.tar.gz
[ec2-user@ip-172-31-44-68 temp]$ |
```

- → Extract the file into /var/lib/ path to make a copy of main servers home
- →start jenkins server and login to jenkins web app with main servers credentials

→ we can see all the configured jobs and lables from main server from backup server

