

Jenkins

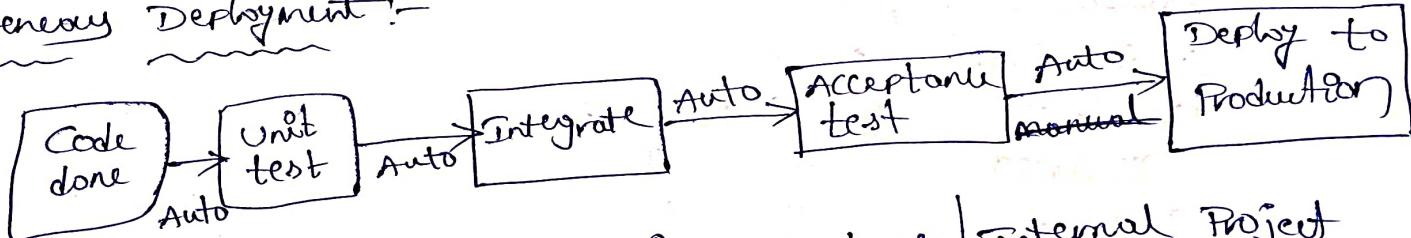
It is an open source Continuous integration / Continuous deployment (CI/CD) automation software tool & written in Java Programming language. It supports multiple programming languages.

SonarQube also Java based tool but only supports different Programming languages. maven & tomcat also Java based tool & it's supports only Java based Projects not other languages. In Jenkins we have 100+ Plugins.

Continuous Integration:- CI is process of automating build, test the code, everytime a developer push the code.

$$CI = C \text{ testing} + C \text{ build}$$

Continuous Deployment:-



These deployment is used in In house / Internal Project that means within organization.

Continuous Delivery:-



This CD is used in External Projects i.e outside of organization. If you want Deploy in Production you need

approval from the client. most of the deploys Production on weekends.

Ex:- Walmart | flipkart

Jenkins Can do:-

- ↳ Integrate with different version control systems (github, CVS, SVN, TFS...)
- ↳ Generate test reports [JaCoCo Plugin used]
- ↳ Push Artifacts to various repositories (nexus, Jfrog)
- ↳ Notify stakeholders of build status (through Email)

Jenkins — Community Edition → If you getting any issue
Community Edition not responding immediately.

CloudBees Jenkins — Enterprise Edition → If you getting any
issue there are responding immediately here.

<u>Product</u>	<u>open source?</u>
----------------	---------------------

Bamboo — NO

Cruise Control — YES

Travis CI — YES Paid also

Circle CI — " "

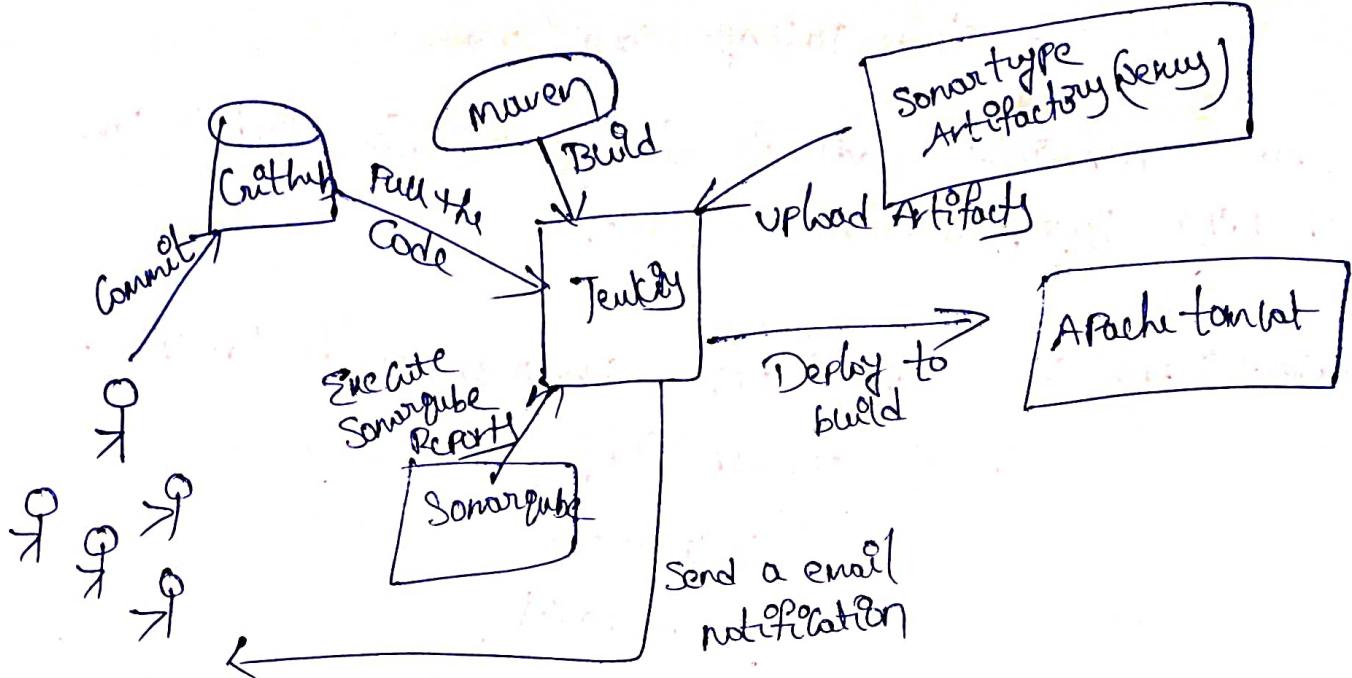
Github — " "

TeamCity — " "

TiRA, Bamboo, Bitbucket → Atlassian Products

Installing, Jenkins:-

- ↳ Through Ubuntu, Linux, Redhat



free style Job :- You can create Job for any of language,
 if you install maven in Linux Server only one version is
 Coming but when you install in Global tool Configuration
 we have chance to install diff version, its better way also.
 You can choose any of one version while creation of Job.

- i) Crust clone :- give ^{URL} Credentials of Github & branch name.
 Install git in Linux Server.
- ii) Maven Package :- Install maven using Global tool Config. Select
 'Invoke top level maven'.
 - Goal - clean package
 - Package Path → /var/lib/Jenkins/workspace/Harsh/*.tar
- iii) Sonarqube test :- Create one Sonarqube Server in another instance.
 Install Sonarqube
 Server plugin &
 Configure detail
 Configuration
 Edit pom.xml file enter 'Sonarqube Server IP' &
 'token' under the Properties.
 - Create one token → Administrator → Security
 → Give name & generate here.

Creats - clean. Package Sonar:Sonar

here application Code is Coming in SonarQube Server.
checking bugs, vulnerabilities .. etc.

iv) Nexus Repo :- Create ^{install} Nexus server on one instance here
Create one repository.

- ↳ snapshot
- ↳ release
- ↳ .. etc

these snapshot & release points Paste in
Pomxml file. & enter nexus username, Password
in settings.xml file.

cd /var/lib/tomcat7/Tools/maven3.6.2

↓
ls (bin, boot, Conf)

↓
cd Conf

↓
ls (logging, settings.xml)

↓
vi settings.xml

↓
Search here "<Server>"

↓
here enter username, password ^{with} in <Server> tag.

```
<Server>
<Id> nexus</Id>
<Username> admin </Username>
<Password> admin </Password>
</Server>
```

Goal - clean Sonar:sonar ~~deploy~~
here uploaded the artifact in nexus Repository.

v) Deploy into Artifact: first install 'Deploy to Container' plugin.
Create & install tomcat Server in one instance.
under the Post-build Action:-

Select "Deploy war/ear to a Container"



war/EAR file = **/maven-web-app.war

Context Path = "Give war file path if in customize
path" otherwise it

Credentials = "Add here"

Tomcat URL = PublicIP:Port

Give permission in tomcat Server along with

Roles { manager-gui
admin-gui }

need Add this Roles { manager-script }

So login to tomcat Server,

cd /opt/tomcat/conf

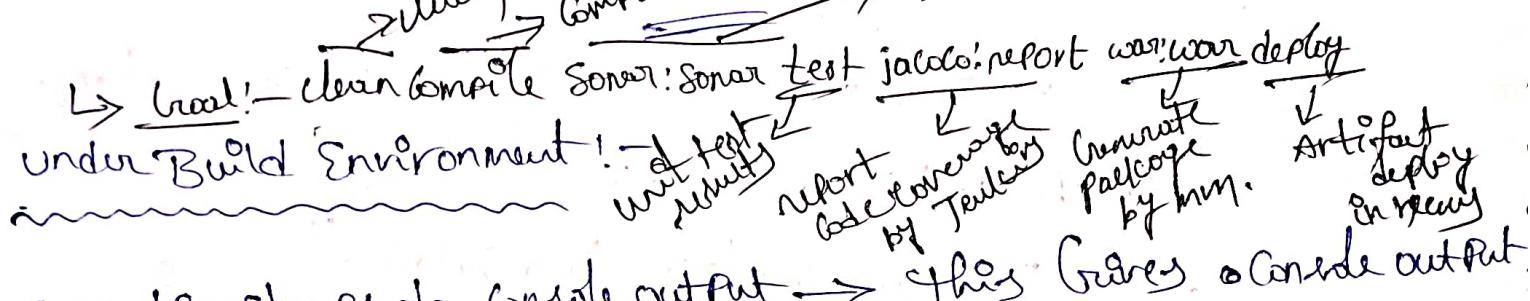
ls [server.xml, web.xml, tomcat-user.xml]

vi tomcat-user.xml

Under the <user> tag, Add this 'manager-script' Role.

~~Goal - clean Sonar:sonar deploy~~

Here application is deployed in tomcat. If you want to see then go to 'managed apps' & checket. This application can access to outside also.



✓ Add timestamp to console output → This gives a console output after building done along with time.

✓ Delete workspace before build starts → if you select this workspace is deleted before new build starts.

✓ Discard old builds → if you want to keep only last '5' builds or more. choose this option & give number here only maintain last '5' build.

Max # of builds to keep = 5

.. Artifacts = 5

For SCM:— only if change is done in Source Code management

then we are going to see in build log history [For SCM polling log]

trigger] based on Cron expression.

But for SCM everytime run based on Cron expression.

Build periodically:— Based on Cron expression & by Every

time run. But if changes done or not in SCM then

we are going to see in build log history.

min Hours DayofMonth Month DayofWeek

Webhook!:- Create Project → Select Settings → Select Webhooks
→ Select "Jenkins URL" → Select Push event:
whatever code changes by developer & pushed to SCM
then webhook will intimated to Jenkins & the Jenkins
will takes the code from SCM.
Jenkins URL [http://180.40.170.90/github-webhook]

✓ Disable Project!:- if any server are (nexus, sonarqube) Scheduled
maintainable then we are going to use this option because
if 'build now' clicking then build going to fail due
maintainable of Server.

✓ Jacoco plugin!:- After installing this plugin, Guro Postbuild
action → Jacoco Coverage report → Enter coverage value
 change build status according the threshold

Instruction	% Branch	% Complexity	% Line	% Method
80	80	80	80	80
80	80	80	80	80

fail the build if coverage degrades more than delta threshold.

80	80	80	80	80
----	----	----	----	----



This plugin is used for generate the report. if
code coverage not more than 80%. then consider as build
failure & stops the deployment but Sonarqube will not
stops the deployment.

Configure Email functionality! - Jenkins Sends Notification to Email.

Go To Manage Jenkins → Configure System →

Select Email notification → enable here (OR)

Email notification → enable here.

While creation of job, under the Post Build Action



Select 'Email notification' or 'Extend Email notification'
& give configuration for sending the notification.

Jenkins Directory Structure:-

↳ Home directory of Jenkins, /var/lib/jenkins

↳ ls (logs, nodes, jobs, tools, secrets, updates, workspace, secrets)

↳ for seeing builds for jobs,

/var/lib/jenkins/jobs

↳ ls (jobs shows)

↳ cd 'Job directory'

↳ ls (builds, config.xml, nextBuildNumber, scm-polling.log)

↳ Job Configuration
all we have
in this file.

↳ cd builds

↳ all build numbers shows
here & Go To build & log.

↳ for seeing SCM file for particular Job,

/var/lib/jenkins/workspac

↓
ls (Jobs shows here).

↳ user information do Jenkins shows,

/var/lib/jenkins/users

↓
ls (files shows)

↓
cat 'userfile' (user.xml)

↳ when we are installing Jenkins server the token can generate
that is available in 'secrets' folder,

/var/lib/jenkins/secrets

↓
ls (shows here)

↳ when we are installing any tools using Global tool
config that all information stores in 'tool' directory.

/var/lib/jenkins/tools

↳ whatever updates will having that information will
available in 'updates' directory

/var/lib/jenkins/updates

↳ all the master & worker nodes information will available in,

/var/lib/jenkins/nodes

↳ Jenkins logs checking if anything happens with Jenkins,

/var/log/jenkins/jenkins.log

Maven Project! - first initially Create a one plugin & install it.
maven integration

Similar to the free style Project but here more features
we have & its only supports to the Java based Projects.

- i) Get clone
- ii) run Package
- iii) SonarQube test
- iv) nexus Repos
- v) Deploy onto Artifact

Under the Post-build Action: Select Email notification &
Give Configuration.

Plugin management:-

↳ Deploy to Container → used for deploying the application into
target & Job ..etc

↳ Deploy weblogic → used for deploy onto weblogic Server or
Deploy websphere.

↳ maven integration → for seeing maven Project while
Creation of maven Job.

↳ safeRestart → used for restart the Jenkins Server after
all running Jobs are finished.

http://JenkinsURL:8080/restart → for Grundy Jobs
http://JenkinsURL:8080/safeRestart {stop} when restart
of Jenkins

↳ next Build number → this plugin used for if you wants to
run specific build number (50, 70 anything)
then directly we have option after installing
of this plugin
under Job, Set next build number → 50 & 70

↳ Email Extension → this plugin used for send the notification under the Post-build Action while creation of job.

↳ ssh Agent →

↳ Sonarqube Server → If you don't have POM.XML then this plugin & after that under Post-build Action, click Sonarqube Server } used to integrate the Sonarqube Server. Adding Sonarqube Credentials in Jenkins & Give info. later } & Give info. later } Execute reports in Jenkins. Credential under the 'Configure Systems' 'Integrate' here.

↳ Audit Trail plugin → After installing this plugin, Go To Configure System → Audit trail

↓
log location = /var/lib/jenkins/Audit.log
log file size MB = 10
log file count = 5
↓
5 files created. Each one is 10MB in that particular path.

This plugin used for who perform the Jenkins operations about all info. Go To that path & check one.

tail -f Audit.log

↓

here shows all info. about Job

↳ Schedule Build → used for we want to build the Job at particular time then Go for this plugin.

↳ Artifactory plugin → If you want to integrate with new JFrog then Go for this plugin & install it & Give add Credentials in Jenkins Credential.

↳ thin Backup → used for Backup the Jenkins Server.

↳ BuildName & Description Setter → This plugin is going to set the Build name with number. Install this plugin.

GoTo Configure → under the build environments →

Set BuildName

Build Name = dev - # \${BUILDNUMBER}



start 'Build now' then here shows name with build number.

↳ Blue Ocean → this is ^{give} separate Dashboard for creation of Job after installing of this plugin

↳ Convert To Pipeline → used for Convert the Job from free-style project to pipeline project.

NOTE:-
→ If you forgot ^{password} Jenkins Password then Password can easily recovery in `/var/lib/Jenkins/config.xml`

↓ true
`<unsecured> false </unsecured>`



restart the Jenkins.

one Password okay then keep 'true' & restart again.

↳ If you want to change Port number, Jenkins home path, Jenkins user name you can go to Edit here,
~~from~~ `/etc/default/Jenkins`

Jenkins file change here & restart it.

✓ Build with Parameter → while creation Job select this →

Add parameter (choice, string parameter..etc)

Choice Parameter: Name: BranchName

Choices: master
ut

Dev

Description:

String Parameter:-

Name: name

Defaultvalue: value

Under SCM: "select Git url"

Branch: \${BranchName}

This option is used for instead of creating '3' jobs for 3 branches, you can create one job & within this job you create & running '3' environment.

→ Create view → this option used for Jenkins Server you have 200+ jobs. In they 50% PEP & 150 jobs Amazon. For Sortlisting particular domain jobs this is very useful.

Jenkins
Dashboard

All + → click & Create

PEP & Amazon
Domain

Add here whatever job related to PEP & amazon.

Tenking user Security :-

[Create user] → manage Tenking → manage Tenking user & nodes
→ Create user.

Here by default you have Administrative access you
Give necessary Permissions to user.

(2)

you can create user through LDAP server also after
Integrating the LDAP server to Tenking server.



↳ Give necessary Permissions to user, Goto

Configure Global Security



Authentication (whether knows to system or not)

Security Realm

Tenking's own user database

Allow user to sign up

LDAP

Unix user/group database

MySQL database

Authorization (execution is performing)

Anyone can do anything

Logged-in user can do anything

Project-based native Authorization Strategy

Role-based Strategy (if you install plugin)

After checking, Add user & give necessary Permissions to particular user. If you want to check Goto & verify also.

↳ After giving Permission to user, Every user able to see all Jobs. But my requirement only specific one user only see 'slepkart Job' & another specific user only see 'maven Job'. For this while creation of job (slepkart or maven) select & add user.

Enable Project based Security

↓
Add user & Give Permission also.

↓
if you want to check then Goto & login to the user & check it.

Build Process do Jar file stored in S3 or Jenkins allows to S3:-

↳ 1st Create a one bucket in S3

↳ this Role can attach to Jenkins Server Instance

↳ In Jenkins Server install plugin (S3 Publisher).

↳ choose IAM Role in amazon S3 Profile in Configuration system.

Goto Jenkins Server → manage Jenkins → Configure system → choose Role in Amazon S3 Profile

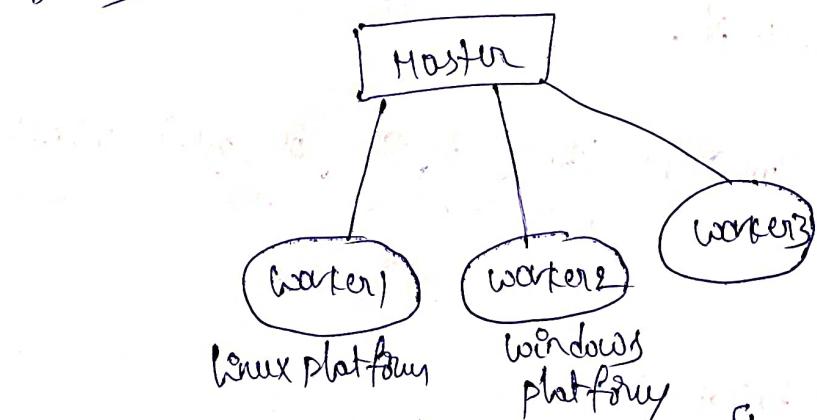
↳ Select "publish artifacts to S3 bucket" option in Post build action while Creation of Job in Jenkins Server But here give source & destination & Region.

source → target / *.jar

Destination → 'Bucketnamehere'

now Build the Job (Periodically or poll SCM) whatever
Job file is generated in Every build, that will stored
in Amazon S3. if you want to check then GoTo S3 in
Console & see folder & check here.

Jenkins master-slave Architecture:- The Jenkins master act as
Scheduler, assign slaves & send builds to
slaves to execute the jobs.



Step①:- first Create one instance [t2.micro] & give name
as "worker". here whatever need that all software
install (Java, vim, git, docker.io) except Jenkins.

Step②:- Connect server through Putty & create one directory.
Under worker

```
pwd
  | home/ubuntu/worker
  { | root/work }
```

Step③:- GoTo Jenkins Server & Create a new node in
manage Jenkins.

Select newnode

Give (name, Description, showname)

↓
Give home directory Path or Remote directory
(/home/ubuntu/worker)

Select "via ssh through username & key"

[Give credentials Username, Private Pemkey]

Host = IP

Launch method:- Select "manually trusted verification strategy"

usage:- select "as soon as possible"

↓

Save & apply

Initially node be in "x" state after some time

it's coming to "v" state.

STEP④:- Create one job with free style Project or Pipeline.

↓

Select option "Restrict where this project can run" &
Select node (worker) here.

(84)

But in pipeline Project Edit Jenkins file

Agent "label 'worker'" instead of "any" then
Job is going to be run in Particular node instance.

↓

Save & apply

Build now



GOTO Server (worker) & check the jobs are coming or
not & see .jar file in target folder



If you want to run "Java -jar target/*.jar".

Build manually Java application without Jenkins:-

first create instance & connect to Putty.

Sudo su -



APT update



Give (keys & Binarys).



Sudo apt-get update



Sudo apt install openjdk-11-jdk



apt-get update



Sudo apt-get install git & mvn & docker.io

→ Sudo useradd -aG docker Jenkins

→ Chmod 777 /var/run/docker.sock

→ Docker plugin plugin install

{
git --version
mvn --version}

If you want to build through Automation then install Jenkins & check status.



git clone "SpringPet"



ls (shows all files of SpringPet)



cd SpringPet



ls (all files of SpringPet)

initially target folder not having



for creating
Jar file

↓
mvnw Package

↓
ls (shows target folder)

↓
cd target

↓
ls -al [shows Jar file]

if you want to
run

Java -jar target/x.jar

[Paste URL in & see homePage]

if you want run as Container then follow,

↓
ls (shows Springpet files along with
Dockerfile)

for creating
Docker Image

↓
docker build -t Spring-app
image name

current directory
of Dockerfile

↓
docker images

run of
Container

↓
docker run -d -P 9081:9090 Spring-app
(82) Image name

↓
docker run -name myspring-app -d -P 9081:9090 Spring-app
Give any name

↓
Paste the Public IP:9081 in URL you are
getting Home Page application.

↓
Docker tag : `spring-app:latest` `barisettivassu/spring-app:latest`

↓
Docker Images [Shows tags Images]
also

↓
Docker login [Enter username & Password]
ob docker hub

↓
Docker push `barisettivassu/spring-app:latest`

↓
Refresh the Docker hub account then able to
see Docker Images of Spring-app.

delete Container } → docker rm Container-id

delete image } → docker rmi Image name or Container id

for seeing
processes of
Container } → ps -ef | grep docker

for giving history
what's happens } → docker log Container-id

PEPeline:- Jenkins pipeline is a suite of plug-ins which supports implementing & integrating continuous delivery pipelines into Jenkins. A definition of Jenkins pipeline is typically written into text file is called as Jenkins file.

There are two types of Pipeline.

i) Declarative Pipeline

ii) Scripted

These two pipelines are totally diff in their construction.

Declarative pipeline are more recent feature of Jenkins pipeline that provides better syntactical features compared to scripted pipeline syntax.

Script:-

```
node {  
    def mavenHome = tool name: "maven3.6.2"  
    stage ('CheckoutCode') {  
        git url: "https://github.com/.../  
        stage ('Build') {  
            sh "${mavenHome}/bin/mvn clean package"  
        }  
        stage ('ExecutionSonarReport') {  
            sh "${mavenHome}/bin/mvn sonar:sonar"  
        }  
    }  
}
```

Install Git in Server ↗ Give name as per global tool config.
Install maven tool
Enter sonar cube token
& Server IP in pom.xml
If you don't have pom.xml file then you need to install 'SonarQube Server' plugin & configure details.

stage ('Upload Artifact into nexus')

{ sh "\${mavenHome}/bin/mvn deploy" }

stage ('Deploy into tomcat')

{ Generate pipeline Script for tomcat }

Server Username & Pemkey where Jenkins Credential.

{ sh "SCP -o StrictHostKeyChecking=no target/maven-web

when deploy fine not asking yes/no"

application.war ec2-user@PublicIPofTomcat: /opt/apache-tomcat-

9.0.39/webapps" } → tomcat Username

↓ tomcat webapps Path

Permissions for 'webapps' directory → chmod -R 777 webapps.

stage ('Send notification')

{ Generate Pipeline Script through Email Configuration (OR)

Email notification in Configure System.

Commented -
[/* ——————
————— */]

chmod -R Jenkins:Jenkins <filename>

multi Pipeline Branch! — It is the enables you to implement different Jenkins policy for different branches of the same object.

If one repository you having a multiple branches (main, stag dev..etc). At this time if you want execute Jobs in all Jobs of branches (4 Jobs) in single time you go for better way is multiPipeline Project. Or when we go for freeStyle Project here you need to create 4 Jobs at utime.

while creation of multiPipeline Project →
Select "git URL", select Build
Every 1 min →
" 2 min"
" 10 min"
" 1 day"
" 2 day"

based on build time Jenkins will trigger. Suppose something update is done on 'dev' branch then only another build starts & execute in 'dev' branch not in all branches.

used for restore the data but not given jobs history data. If you want job history data you need to configure 'Job Configuration' plugin.

Jenkins Backup! —

→ First install 'thinBackup' plugin & check it

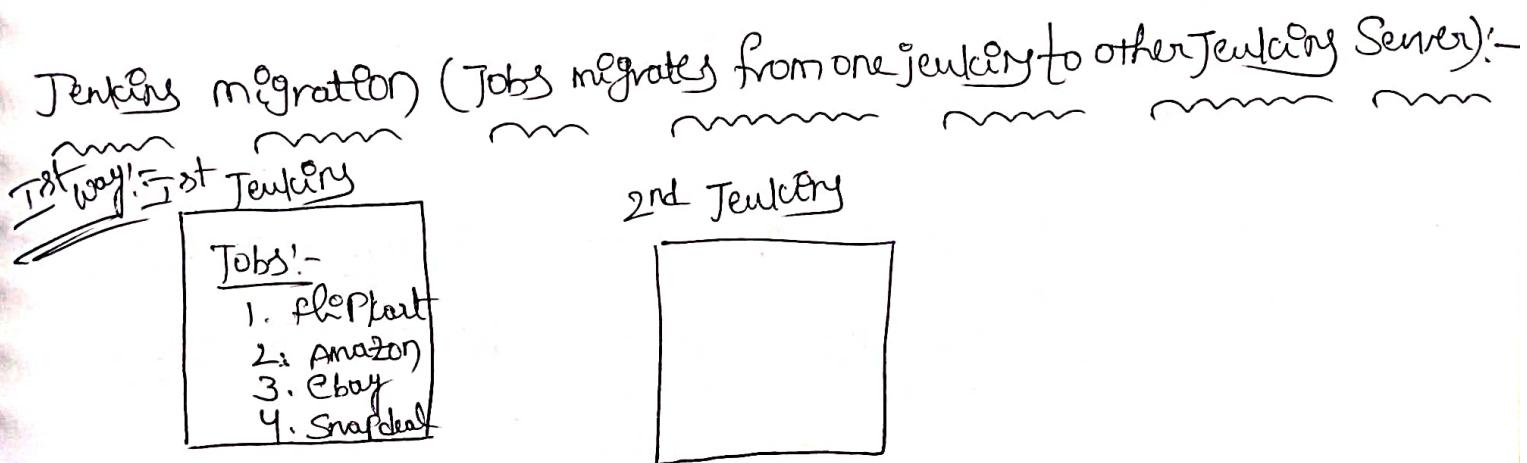
manage Jenkins → See here option 'thinBackup' option
Restore

Configure the here
where the Path Backup = /var/lib/jenkins/Backup
Backup schedule for full backups (*****)
Max no. of backup = 5

Restore
Service
Settings

Old backup ZIP Backup build results
Backup path content Backup build Archives

If you are not given Crone Schedule then manually click "Restore" option. If you are given Crone Schedule then based on that it has to be given backups. That is also only upto 5 backups.



- ↳ for doing migration, in target server install Jenkins same version of 1st Jenkins Server.
- ↳ Install 'Job import' plugin in target Jenkins Server
- ↳ Add same Jenkins configurations in 'Configuration System'.

Job Import Plugin:-

Name:- Jenkins_Sample

URL:- "Jenkins source URL"

Credentials:- "Source Jenkins Credentials",
Add here

- ↳ click 'Job Import Plugin' option in target Jenkins Server.



Jenkins Server:- Jenkins_Server

Remote folder:- Empty or enter if you want Custom path
Search into folder

Query!



Copy of folder = Empty
Install required Plugins

Import? Disable? Name

flipkart
 amazon
 ebay
 Snapdeal

Import → click Import then all Jobs & Installed Plugins comes to target Teuking Server.

2nd way:-

If you have a Linux machine access then you can Copy the Jobs from Source to target Teuking Server also through the Command line Linux Server.

from source mlc:-

↳ SCP → /var/lib/Teuking

↓
from source
path to Teuking

root@IPofhost → /root/var/lib/Teuking
↓
destination server IP ↓
path where to copy.

then Goto destination Teuking Server & refresh of then all Source Jobs comes here.

manage Teuking → Reward Configuration from Disk

if by copy the gisconfig file also to destination.

Jenkins CLI! - It is the Command line to interact with the Jenkins Server Dashboard. With the help of CLI you can Create, delete, Build & Configure the Jobs also.. etc

In URL: <http://180.60.190.87/cli>



You able to see Jenkinscli.jar file you can download this & all the CLI Commands of Jenkins & one main command to connecting Jenkins Server from Github.

for executing Jenkins CLI Commands, Create 'Jenkinscli.jar' file path & execute the main command,

↳ Java -jar Jenkinscli.jar -auth basic:username:password@1431 -s <http://180.60.190.87>

authorization

username of
Jenkins Server

password
of Jenkins

help
for seeing
all commands

server (by instead of
this you can enter token by
creation of job in configuration)

so

Here you can execute a command for Job related Configuration (Build, Delete, Create .. etc)

- 1) Get clone → Add GitHub Cred.
- 2) mvn → clean Compile package
- 3) Static code →
 - { if you don't have pom.xml }
 - Install 'SonarQube Server' plugin
 - ↓
 - Add Creds in Configuration Systems OR
 - Token/Creds
 - In Post-build action Give Configuration while creation of Job.
 - { if you don't have pom.xml }
 - Add token of SonarQube in pom.xml
 - ↓
 - & "Server IP" & password in pom.xml
 - ↓
 - In Post-build action Give Configuration while creation of Job.
- 4) Newy Repos →
 - { Install 'Artifactory' plugin }
 - ↓
 - Add Creds in Configuration Systems OR
 - Token/Creds
 - Add 'Release & Snapshot' URLs in pom.xml
 - ↓
 - Add Newy Repository in setting.xml
 - Add Newy Repository in setting.xml
 - <server>
 - <id>= >
 - <username>= >
 - <password>= >
 - <server>

Master Slave architecture in Jenkins:-

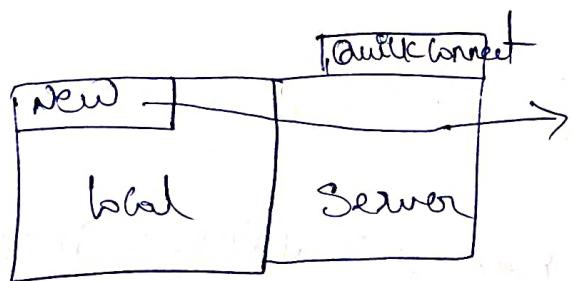
- 1) Create 3 instances in AWS (master, slave-1, slave-2).
- 2) Install Jenkins in master & open the Jenkins dashboard in URL.
- 3) Install Java, docker.io in slave-1, slave-2
- 4) In master → GoTo manage Jenkins → Configure Global Security → In Agents select Random.
TCP ports for JNLP agent Fixed Random
- 5) Then create nodes for slave-1, slave-2,
→ GoTo manage Jenkins → manage nodes → Create nodes for slave-1, slave-2
name = slave-1
Description =
Remote root directory = /home/ubuntu
label = slave-1
Launch method = Launch Agent via Java web start
↳ custom WORKDIR PATH = /home/ubuntu
Save & apply

Like slave-2 also same.

6) Open the Slave-1 node initially (X) position. now download the launch Agent Launch, Agent.jar file to local system.

Σ we have link also [Java -jar agent.jar ...]

7) using filezilla, winscp you can download those files from local to Remote server.



Give username (Ubuntu)
Host - PublicIP (Slave-1)
Port - 22

Goto Edit → SFTP →

(agent.jar, slave-agent.Jar)

Σ then files (two) drag & drop (or update) from local to remote server.

8) Goto Slave-1 m/c server Σ check "ls" two, files coming or not. then "here Paste the link" Σ Then Connected to this slave-1 to Jenkins Server.

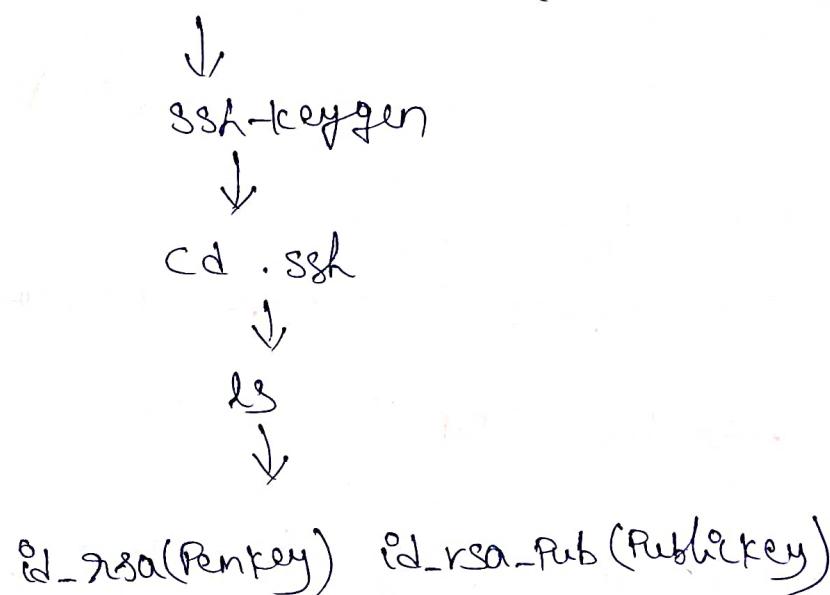
9) By slave-2 m/c also same setup.

10) Σ in Jenkins master the node is [✓] position.

master node Connection through ssh-keygen! -

- 1) Create two instances (master, slave-1).
- 2) Connect to Putty of master node & install [Java, Jenkins].
 { In worker node install [Java].

- 3) In master node, GoTo .ssh → ls (authorized_keys) ⇒



then Public key can Paste into the slave-1 file
in authorized_keys.

- 4) In slave-1, GoTo sudo nano authorized_keys

[Ubuntu] → ↓ scroll down
"Paste it PubKey of master"

↓
Save

↓
Sudo Su

[root] → Sudo nano authorized_keys
↓ scroll down
Save "Paste it Public key of master"

↓
service .shd restart

5) In master check connection.

↳ ssh ubuntu@IPV4 Public (slave-1)

↳ you are logged into the slave-1 from master.

↓
Exit (master)

6) In master node,

Go to manage Jenkins → Configure global Security

→ TCP & JNLP Port make it random

7) And Create node for slave-1,

Remote Root Directory = /home/ubuntu

label = slave-1

Launch method = Launch Agent via sh.

Host = IP of slave-1

_credentials (username, Private key enter)

↓
Id_rsa of master

↓

Save & apply

then Agent [✓] portion that means Connection
is established.

Creating Freestyle Project Jobs (Test, Prod) :-

- 1) Create one free style Job for Test & through Github URL
& run in slave-1 m/c (Restrict where this Job can run).

for removing all container

↳ sudo docker rm -f \$(sudo docker ps -a -q).
↓

Check the Job(Test) in slave-1 machine & see
home directory Jenkins [/var/lib/jenkins /workspace].

- 2) similarly create free style Job for Prod &
run in slave-2 m/c.



And check the Job(Prod) & see home directory

of Jenkins.

we will be triggered "Prod" Job only when "Test" Job will complete

- 1) Goto Test Job & click on Configure



Add Post build Action

↳ Build other Projects
Project name: Prod,
Save & apply

- 2) Install "Build Pipeline" plugin without restart.
- 3) Go to Jenkins dashboard click [+] new view,
↓
Build pipeline
- ↓
- Based on upstream & downstream relation ✓
- Upstream downstream config:
Select initial Job
- ↓
- Save & apply
- here first initially "Test" job runs later "Prod" job runs.