

Sakshi Shirure (10-10-2024) Jenkins job

1) If you stop EC2 server after start public IP will change we need to provide that new IP to Jenkins.

Dashboard > Manage Jenkins > System >

Use this node as much as possible

Quiet period ?
5

SCM checkout retry count
0

☐ Restrict project naming

Jenkins Location

Jenkins URL ?
http://54.89.138.142:8080/

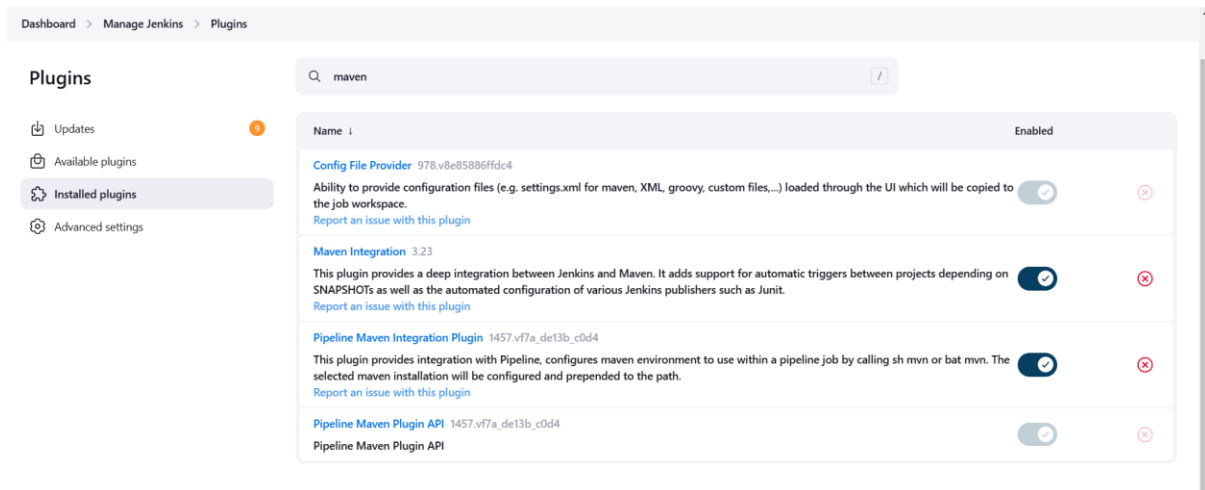
System Admin e-mail address ?
address not configured yet <nobody@nowhere>

Save Apply

2) Set timezone UTC to IST

```
[root@ip-172-31-83-221 ~]# sudo unlink /etc/localtime
unlink: cannot unlink '/etc/localtime': No such file or directory
[root@ip-172-31-83-221 ~]# sudo ln -s /usr/share/zoneinfo/Asia/Kolkata /etc/localtime
[root@ip-172-31-83-221 ~]# date
Mon Oct 28 22:48:36 IST 2024
[root@ip-172-31-83-221 ~]#
```

3) Install Plugins and check your plugins are installed ready to use

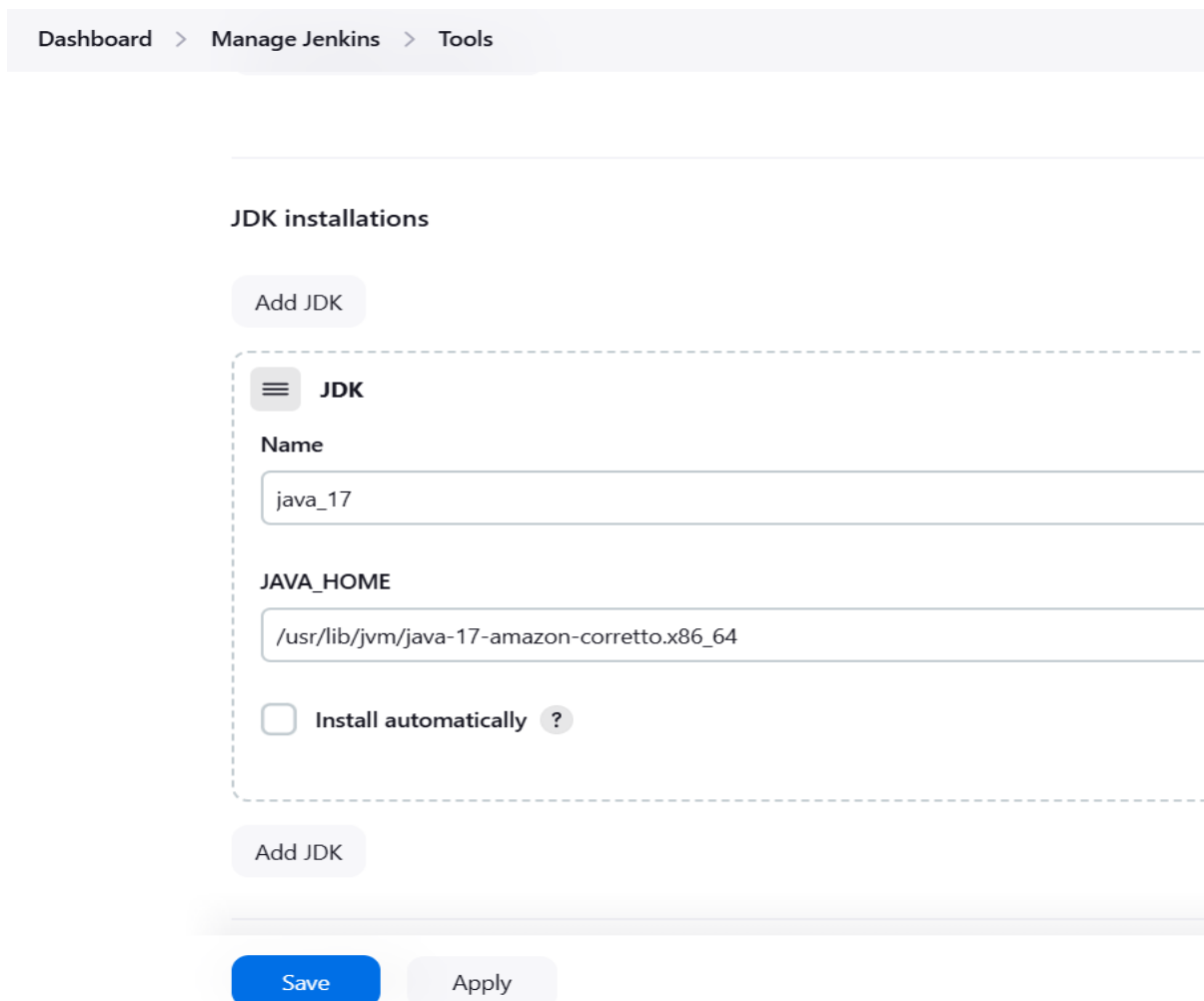


The screenshot shows the Jenkins 'Plugins' page. The breadcrumb navigation is 'Dashboard > Manage Jenkins > Plugins'. On the left sidebar, 'Installed plugins' is selected. A search bar at the top contains 'maven'. The main table lists installed plugins with columns 'Name' and 'Enabled'. The plugins listed are:

Name	Enabled
Config File Provider 978.v8e85886ffdc4 Ability to provide configuration files (e.g. settings.xml for maven, XML, groovy, custom files...) loaded through the UI which will be copied to the job workspace. Report an issue with this plugin	<input checked="" type="checkbox"/>
Maven Integration 3.23 This plugin provides a deep integration between Jenkins and Maven. It adds support for automatic triggers between projects depending on SNAPSHOTS as well as the automated configuration of various Jenkins publishers such as Junit. Report an issue with this plugin	<input checked="" type="checkbox"/>
Pipeline Maven Integration Plugin 1457.vf7a_de13b_c0d4 This plugin provides integration with Pipeline, configures maven environment to use within a pipeline job by calling sh mvn or bat mvn. The selected maven installation will be configured and prepended to the path. Report an issue with this plugin	<input checked="" type="checkbox"/>
Pipeline Maven Plugin API 1457.vf7a_de13b_c0d4 Pipeline Maven Plugin API	<input checked="" type="checkbox"/>

4) Now, provide exact location of {java, git & maven}

Java:



The screenshot shows the Jenkins 'Tools' configuration page. The breadcrumb navigation is 'Dashboard > Manage Jenkins > Tools'. The section is titled 'JDK installations'. There is an 'Add JDK' button at the top. Below it, a dashed box contains the configuration for a new JDK:

JDK

Name
java_17

JAVA_HOME
/usr/lib/jvm/java-17-amazon-corretto.x86_64

☐ Install automatically ?

At the bottom of the dashed box is another 'Add JDK' button. Below the dashed box, there are two buttons: 'Save' and 'Apply'.

Git

[Dashboard](#) > [Manage Jenkins](#) > [Tools](#)

[Add Jenkins](#)

Git installations

≡

Git

Name

Default

Path to Git executable ?

/usr/bin/git

☐ Install automatically ?

Add Git

▼

Gradle installations

Maven:

[Dashboard](#) > [Manage Jenkins](#) > [Tools](#)

[Add Ant](#)

Maven installations

Add Maven

≡

Maven

Name

Maven_3.9.4

MAVEN_HOME

/opt/apache-maven-3.9.4

☐ Install automatically ?

Add Maven

Save

Apply


5) Create freestyle Job


Dashboard > New Item


New Item


Enter an item name

Select an item type

**Freestyle project**
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by steps like archiving artifacts and sending email notifications.

**Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

**Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (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 platforms or build configurations.


OK


6) In build trigger will set to ping in every min using crontab jobs


Dashboard > ping_5min > Configuration


Configure


 General

 Source Code Management

 Build Triggers

 Build Environment

 Build Steps

 Post-build Actions

Source Code Management

☒ None

☐ Git ?

Build Triggers


☐ 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 Monday, October 28, 2024 at 6:18:47 PM Coordinated Universal Time; would next run at Monday, October 28, 2024 at 6:18:47 PM Coordinated Universal Time.

☐ GitHub hook trigger for GITScm polling ?

7) enter some script to execute shell

Dashboard > ping_5min > Configuration

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Build Steps

Execute shell ?

Command

See [the list of available environment variables](#)

```
#!/bin/bash
ping -c 5 google.com
ping -c 5 yahoo.com
|
```

Advanced ▾

Add build step ▾

8 Job have been successfully run

Dashboard > ping_5min >

Status

Changes

Workspace

Build Now

Configure

Delete Project

Rename

ping_5min

Permalinks

- Last build (#2), 18 sec ago
- Last stable build (#2), 18 sec ago
- Last successful build (#2), 18 sec ago
- Last completed build (#2), 18 sec ago

Build History

trend ▾

Filter... /

#2

Oct 28, 2024, 6:24 PM

#1

Oct 28, 2024, 6:23 PM

Atom feed for all

Atom feed for failures

9) here is the (Freestyle_Ping_Every_5min

The Jenkins Dashboard shows a list of builds. The 'ping_5min' build is highlighted with a green status icon and a sun icon. The build details show it was successful, with a last success time of 1 min 3 sec and a last duration of 8 sec. The build is currently in the 'All' state.

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	ping_5min	1 min 3 sec #3	N/A	8 sec

Build Queue: No builds in the queue.

Build Executor Status: 1 Idle, 2 Idle.

10) from here we can See logs/console output

The Jenkins Console Output shows the build process. It starts by running as SYSTEM and building in the workspace. The build script is executed, and the output shows the results of the ping command. The build is successful.

```
Started by timer
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/ping_5min
[ping_5min] $ /bin/bash /tmp/jenkins12824895134672342452.sh
PING google.com (172.253.115.101) 56(84) bytes of data.
64 bytes from bg-in-f101.1e100.net (172.253.115.101): icmp_seq=1 ttl=58 time=1.44 ms
64 bytes from bg-in-f101.1e100.net (172.253.115.101): icmp_seq=2 ttl=58 time=1.45 ms
64 bytes from bg-in-f101.1e100.net (172.253.115.101): icmp_seq=3 ttl=58 time=1.56 ms
64 bytes from bg-in-f101.1e100.net (172.253.115.101): icmp_seq=4 ttl=58 time=1.46 ms
64 bytes from bg-in-f101.1e100.net (172.253.115.101): icmp_seq=5 ttl=58 time=1.79 ms

--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 1.447/1.546/1.793/0.130 ms
PING yahoo.com (98.137.11.163) 56(84) bytes of data.
64 bytes from media-router-fp74.prod.media.vip.gq1.yahoo.com (98.137.11.163): icmp_seq=1 ttl=50 time=62.1 ms
64 bytes from media-router-fp74.prod.media.vip.gq1.yahoo.com (98.137.11.163): icmp_seq=2 ttl=50 time=61.7 ms
64 bytes from media-router-fp74.prod.media.vip.gq1.yahoo.com (98.137.11.163): icmp_seq=3 ttl=50 time=61.9 ms
64 bytes from media-router-fp74.prod.media.vip.gq1.yahoo.com (98.137.11.163): icmp_seq=4 ttl=50 time=62.2 ms
64 bytes from media-router-fp74.prod.media.vip.gq1.yahoo.com (98.137.11.163): icmp_seq=5 ttl=50 time=61.8 ms

--- yahoo.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4002ms
rtt min/avg/max/mdev = 61.774/61.982/62.211/0.357 ms
Finished: SUCCESS
```