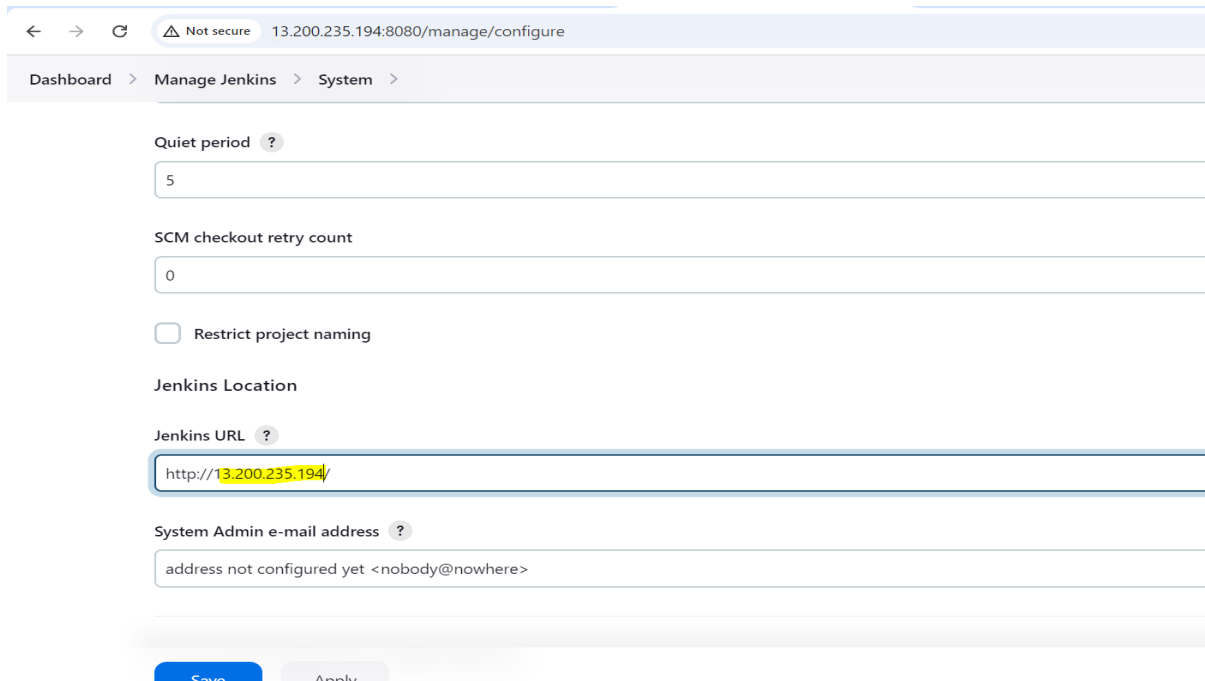


Jenkins_Practical 10-10-2024

Savita Nalawade

1) If you stop ec2 server after start public IP will change we need to provide that ip to jenkins

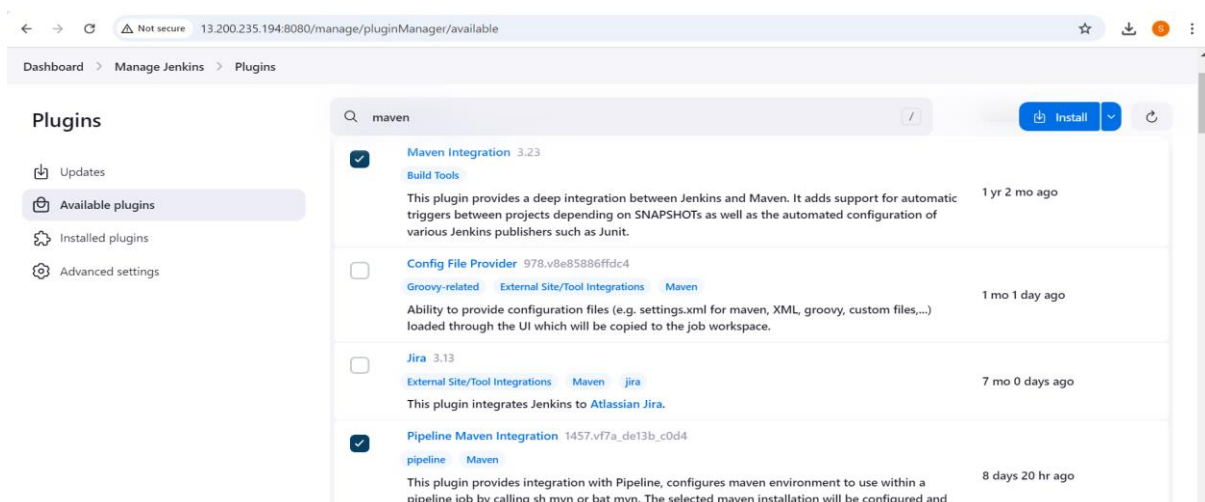


The screenshot shows the Jenkins 'System' configuration page. The browser address bar indicates the URL is '13.200.235.194:8080/manage/configure'. The page has a breadcrumb trail: 'Dashboard > Manage Jenkins > System >'. The configuration fields include: 'Quiet period' set to 5; 'SCM checkout retry count' set to 0; 'Restrict project naming' which is unchecked; 'Jenkins Location' which is empty; 'Jenkins URL' set to 'http://13.200.235.194/'; and 'System Admin e-mail address' set to 'address not configured yet <nobody@nowhere>'. At the bottom, there are 'Save' and 'Apply' buttons.

2) Set timezone UTC to IST

```
[root@ip-172-31-8-15 ~]# sudo unlink /etc/localtime
[root@ip-172-31-8-15 ~]# sudo ln -s /usr/share/zoneinfo/Asia/Kolkata /etc/localtime
[root@ip-172-31-8-15 ~]# date
Fri Oct 11 08:09:18 IST 2024
[root@ip-172-31-8-15 ~]#
```

3) Install Plugins



The screenshot shows the Jenkins 'Plugin Manager' page. The browser address bar indicates the URL is '13.200.235.194:8080/manage/pluginManager/available'. The page has a breadcrumb trail: 'Dashboard > Manage Jenkins > Plugins'. On the left, there is a sidebar with 'Plugins' and a list of actions: 'Updates', 'Available plugins' (selected), 'Installed plugins', and 'Advanced settings'. The main area shows a search for 'maven' with a list of plugins. The 'Maven Integration' plugin (version 3.23) is checked and has an 'Install' button. Other plugins listed include 'Config File Provider', 'Jira', and 'Pipeline Maven Integration'. Each plugin entry includes its name, version, a brief description, and the time since it was last updated.

4) Plugins are in progress to downloading

Dashboard > Manage Jenkins > Plugins

Plugins

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Download progress

Preparation

Checking internet connectivity

Checking update center connectivity

Javadoc

JSch dependency

Maven Integration

Pipeline Maven Plugin API

Config File Provider

Pipeline Maven Integration

SSH server

JavaMail API

Jersey 2 API

Artifactory

Loading plugin extensions

Pending

Pending

Pending

Pending

Pending

Pending

Pending

Pending

Pending

Pending

Pending

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

Type here to search

23°C Mostly cloudy

5)Plugins are successfully installed

Jenkins

Search

Dashboard > Manage Jenkins > Plugins

Plugins

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Download progress

Preparation

Checking internet connectivity

Checking update center connectivity

Success

Javadoc

JSch dependency

Maven Integration

Pipeline Maven Plugin API

Config File Provider

Pipeline Maven Integration

SSH server

JavaMail API

Jersey 2 API

Artifactory

Loading plugin extensions

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

Success

Go back to the top page

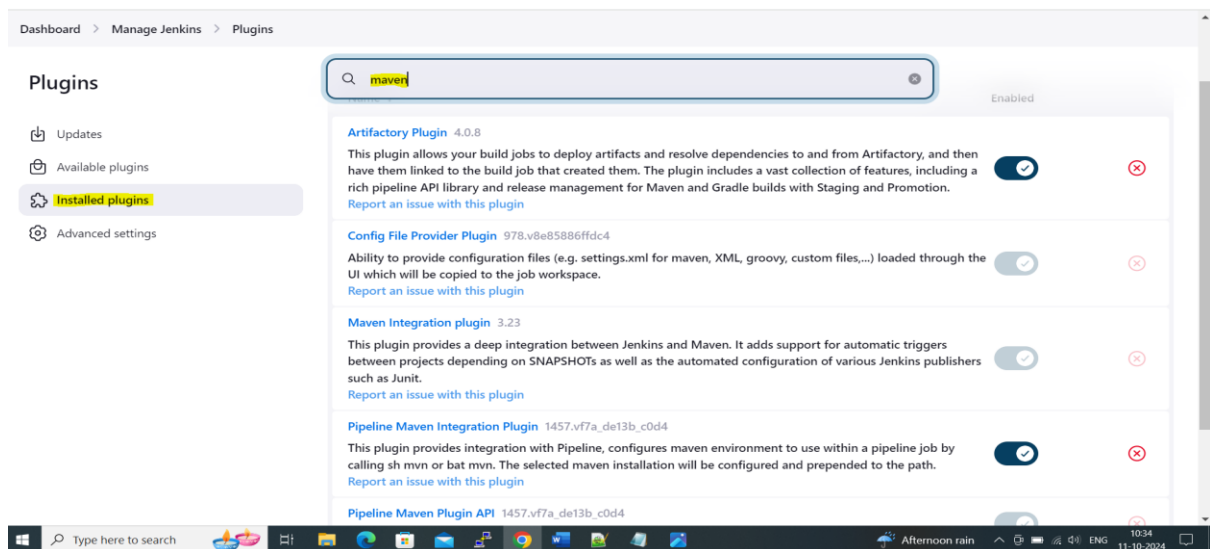
Type here to search

6)After installing plugins Jenkins restart is required

```
[root@ip-172-31-8-15 ~]# service jenkins restart
Redirecting to /bin/systemctl restart jenkins.service
[root@ip-172-31-8-15 ~]# service jenkins status
Redirecting to /bin/systemctl status jenkins.service
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; vendor preset: disabled)
   Active: active (running) since Fri 2024-10-11 09:21:18 IST; 6s ago
     Main PID: 17585 (java)
    CGroup: /system.slice/jenkins.service
            └─17585 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=%C/jenkins/war --httpPort=8080

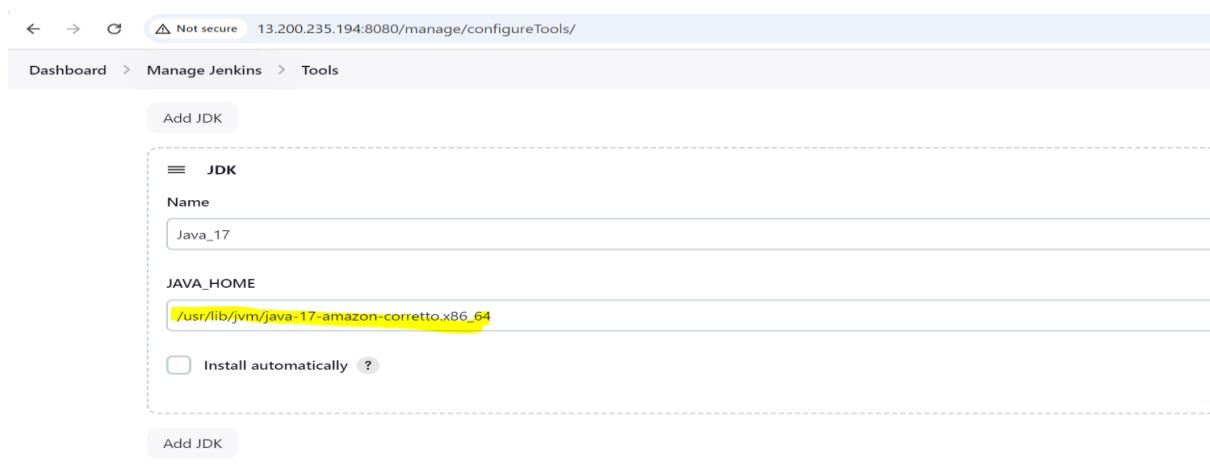
Oct 11 09:21:13 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:13.631+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: ... plugins
Oct 11 09:21:16 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:16.339+0000 [id=31] INFO h.p.b.g.GlobalTimeoutConfiguration#load: ... not set
Oct 11 09:21:16 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:16.894+0000 [id=30] INFO jenkins.InitReactorRunner$1#onAttained: ... testload
Oct 11 09:21:17 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:17.839+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: ... g loaded
Oct 11 09:21:17 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:17.840+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: ... adapted
Oct 11 09:21:17 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:17.847+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: ... all jobs
Oct 11 09:21:17 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:17.882+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: ... updated
Oct 11 09:21:17 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:17.998+0000 [id=30] INFO jenkins.InitReactorRunner$1#onAttained: ... lization
Oct 11 09:21:18 ip-172-31-8-15.ap-south-1.compute.internal jenkins[17585]: 2024-10-11 02:51:18.057+0000 [id=24] INFO hudson.lifecycle.Lifecycle#onReady: Jenk... running
Oct 11 09:21:18 ip-172-31-8-15.ap-south-1.compute.internal systemd[1]: Started Jenkins Continuous Integration Server.
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-8-15 ~]#
```

7)check your plugins are installed ready to use

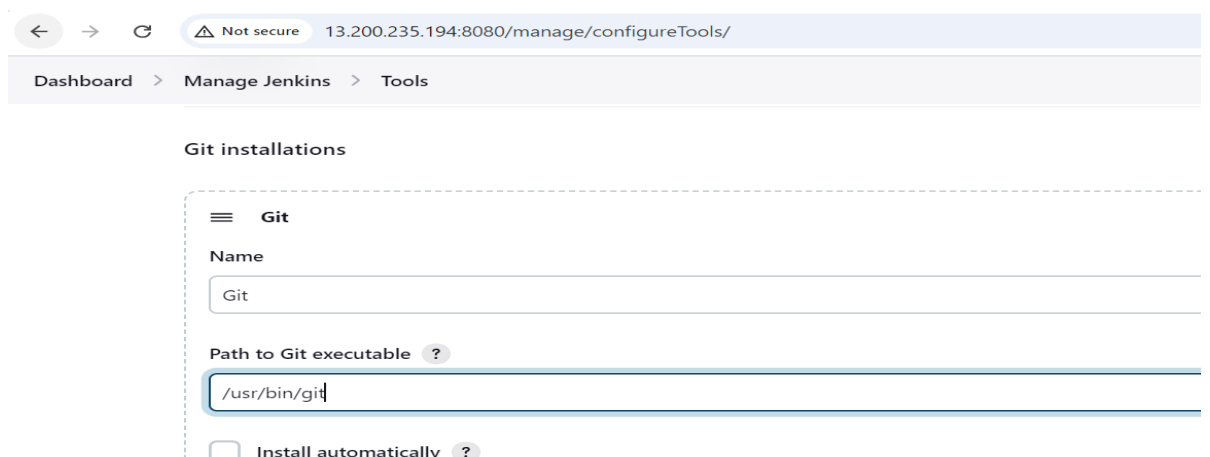


8)Now, provide exact location of {java, git & maven}

Java:



Git:



Maven

← → ↻ 🔒 Not secure 13.200.235.194:8080/manage/configureTools/

Dashboard > Manage Jenkins > Tools

Add Maven

Maven

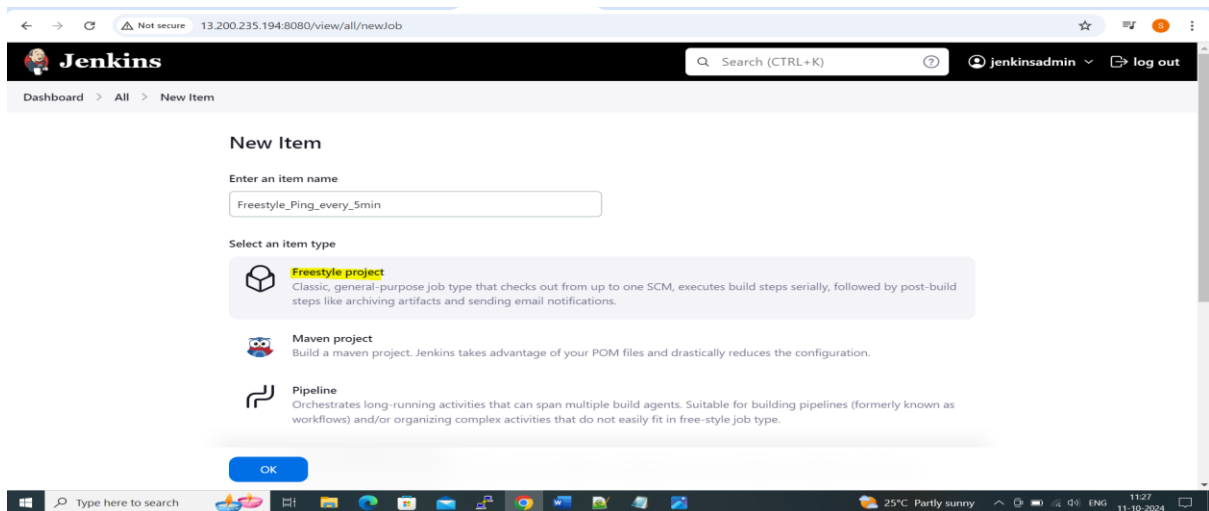
Name

MAVEN_HOME

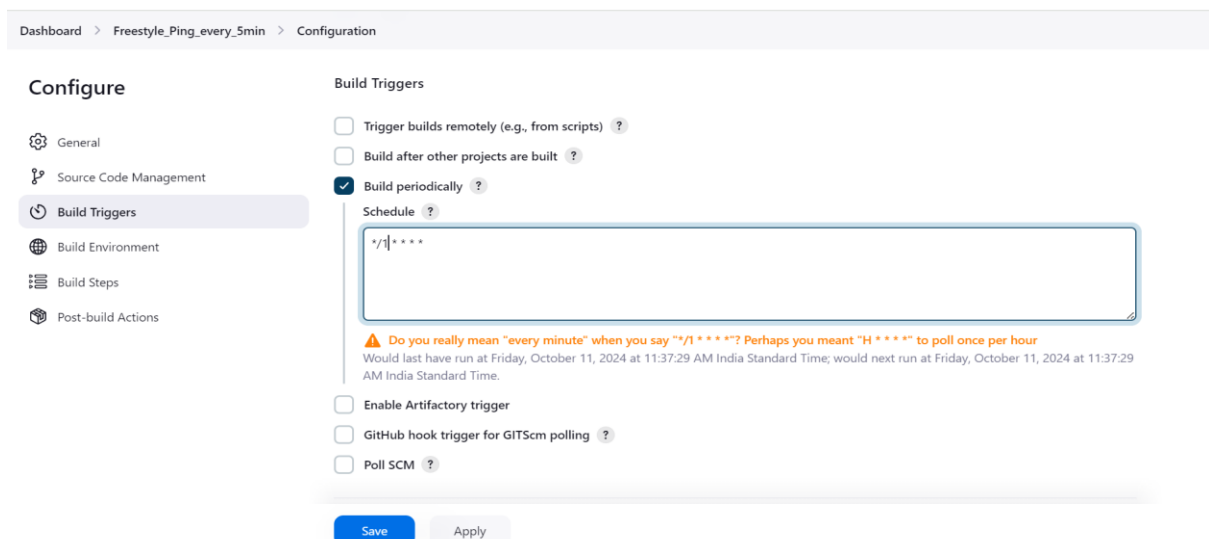
☐ Install automatically ?

```
aws Services 🔍 Search [Alt+S]
[root@ip-172-31-8-15 ~]# java --version
openjdk 17.0.12 2024-07-16 LTS
OpenJDK Runtime Environment Corretto-17.0.12.7.1 (build 17.0.12+7-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.12.7.1 (build 17.0.12+7-LTS, mixed mode, sharing)
[root@ip-172-31-8-15 ~]# javac --version
javac 17.0.12
[root@ip-172-31-8-15 ~]# which java
/usr/bin/java
[root@ip-172-31-8-15 ~]# readlink -f /usr/bin/java
/usr/lib/jvm/java-17-amazon-corretto.x86_64/bin/java
[root@ip-172-31-8-15 ~]# which git
/usr/bin/git
[root@ip-172-31-8-15 ~]# which maven
/usr/bin/which: no maven in (:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/root/bin)
[root@ip-172-31-8-15 ~]# echo $M2_HOME
/opt/apache-maven-3.9.4
[root@ip-172-31-8-15 ~]#
```

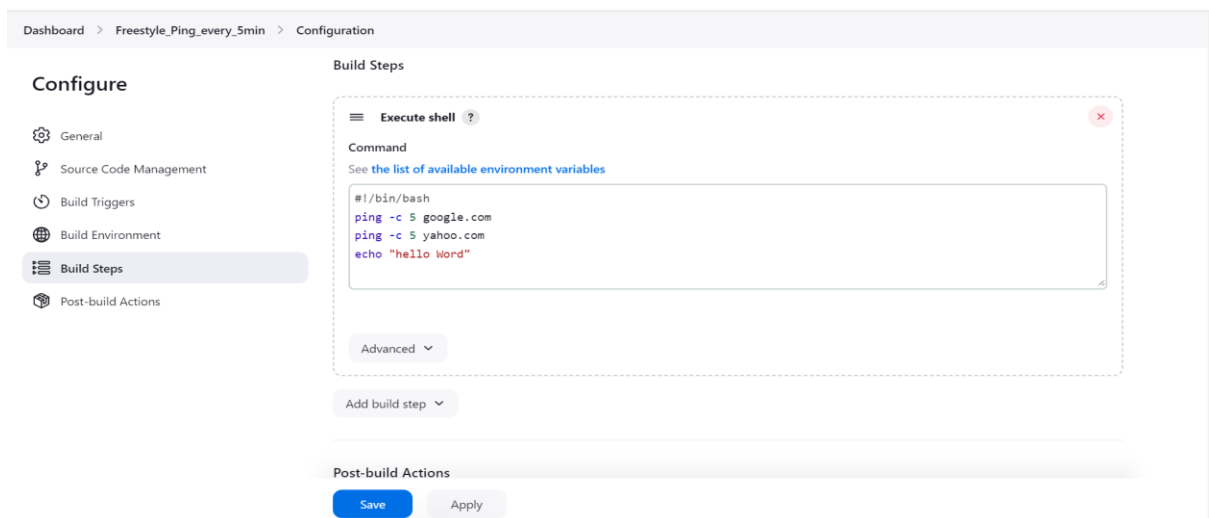
9) Create freestyle Job



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



11) enter some script to execute shell



12) Job have been successfully run

Dashboard > Freestyle_Ping_every_5min >

Status

Changes

Workspace

Build Now

Configure

Delete Project

Rename

Freestyle_Ping_every_5min

Permalinks

- Last build (#15), 55 sec ago
- Last stable build (#15), 55 sec ago
- Last successful build (#15), 55 sec ago
- Last failed build (#11), 4 min 55 sec ago
- Last unsuccessful build (#11), 4 min 55 sec ago
- Last completed build (#15), 55 sec ago

Build History

Filter...

#16

Oct 11, 2024, 11:54 AM

#15

Oct 11, 2024, 11:53 AM

#14

Oct 11, 2024, 11:52 AM

#13

13)here is the (Freestyle_Ping_Every_5min)

← → ↺ ⚠ Not secure 13.200.235.194:8080

Jenkins

Search (CTRL+K)

jenkinsadmin

Dashboard >

+ New Item

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

All

+

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	Freestyle_Ping_every_5min	49 sec #16	5 min 49 sec #11	8.2 sec

Icon:

S

M

L

14) from here we can See logs/console output

Dashboard > Freestyle_Ping_every_5min > #12 > Console Output

Console Output

Edit Build Information

Delete build '#12'

Timings

Previous Build

Next Build

Started by timer

Running as SYSTEM

Building in workspace /var/lib/jenkins/workspace/Freestyle_Ping_every_5min

[Freestyle_Ping_every_5min] \$ /bin/bash /tmp/jenkins8889400989115409578.sh

PING google.com (142.250.183.142) 56(84) bytes of data:

64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=1 ttl=54 time=1.54 ms

64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=2 ttl=54 time=1.68 ms

64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=3 ttl=54 time=1.63 ms

64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=4 ttl=54 time=1.64 ms

64 bytes from bom07s31-in-f14.1e100.net (142.250.183.142): icmp_seq=5 ttl=54 time=1.66 ms

google.com ping statistics ---

5 packets transmitted, 5 received, 0% packet loss, time 4006ms

rtt min/avg/max/mdev = 1.541/1.632/1.685/0.071 ms

PING yahoo.com (74.6.143.26) 56(84) bytes of data:

64 bytes from media-router-fp74.prod.media.vip.bfl.yahoo.com (74.6.143.26): icmp_seq=1 ttl=40 time=255 ms

64 bytes from media-router-fp74.prod.media.vip.bfl.yahoo.com (74.6.143.26): icmp_seq=2 ttl=40 time=255 ms

64 bytes from media-router-fp74.prod.media.vip.bfl.yahoo.com (74.6.143.26): icmp_seq=3 ttl=40 time=255 ms

64 bytes from media-router-fp74.prod.media.vip.bfl.yahoo.com (74.6.143.26): icmp_seq=4 ttl=40 time=255 ms

64 bytes from media-router-fp74.prod.media.vip.bfl.yahoo.com (74.6.143.26): icmp_seq=5 ttl=40 time=255 ms

yahoo.com ping statistics ---

5 packets transmitted, 5 received, 0% packet loss, time 4001ms

rtt min/avg/max/mdev = 255.481/255.520/255.580/0.453 ms

hello Word

Finished: SUCCESS