

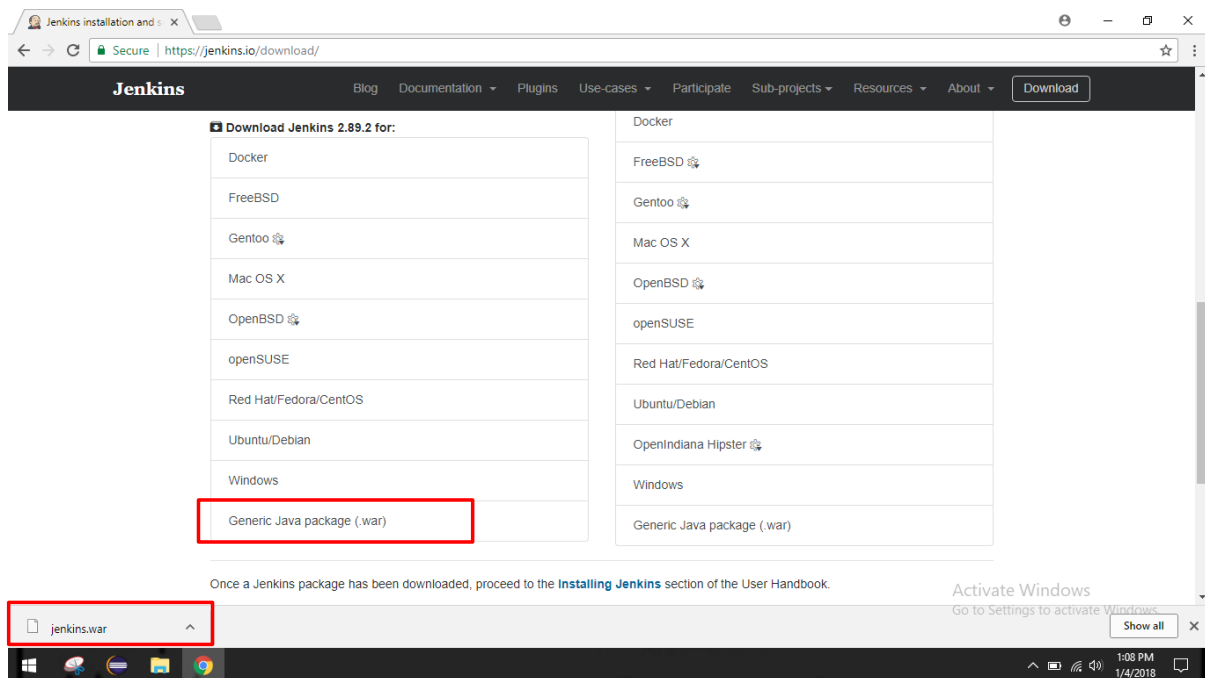
Jenkins Installation

Required Files

- Jenkins.war file to run Jenkins on local host (local machine)

Steps to follow:

1. Go to the link and download the war file
2. <https://jenkins.io/download/>



Or also can be downloaded directly by clicking the below link

<http://mirrors.jenkins.io/war-stable/latest/jenkins.war>

3. After downloading the war file, navigate to the downloaded folder and start command prompt

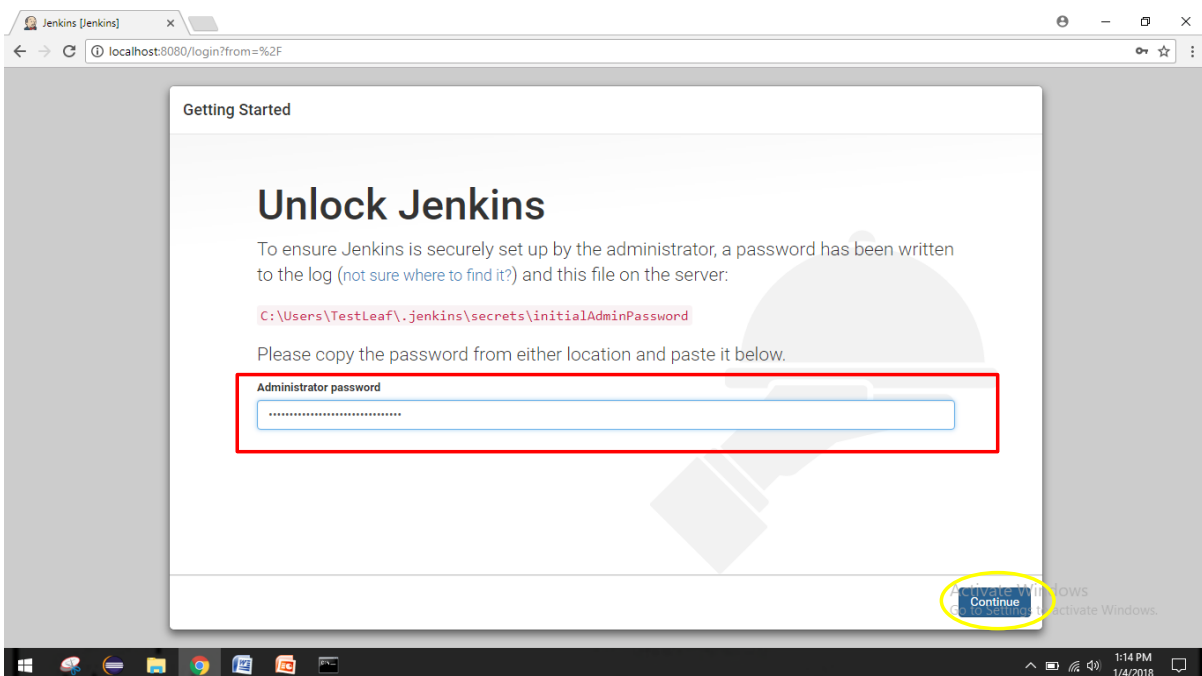
Type: `java -jar Jenkins.war`



```
C:\Windows\System32\cmd.exe - java -jar jenkins.war
[... log output ...]
Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:
fc06d8bd26114c719fe9d6be5b7658ad
This may also be found at: C:\Users\TestLeaf\.jenkins\secrets\initialAdminPassword
[... log output ...]
INFO: Jenkins is fully up and running
```

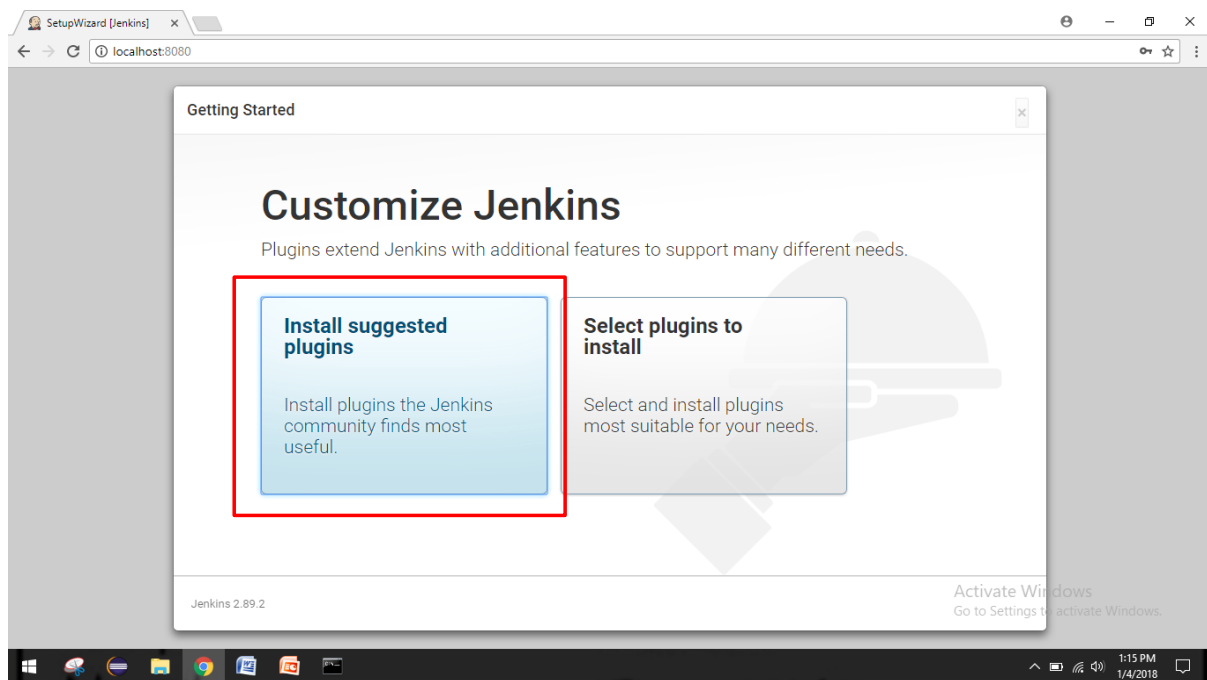
After visible of Jenkins is fully up and running in the console, continue

4. Open Chrome browser
5. Type the url - localhost:8080 and type the password shown in the console (Copy & paste the password) – *Highlighted in red color on the above snap*

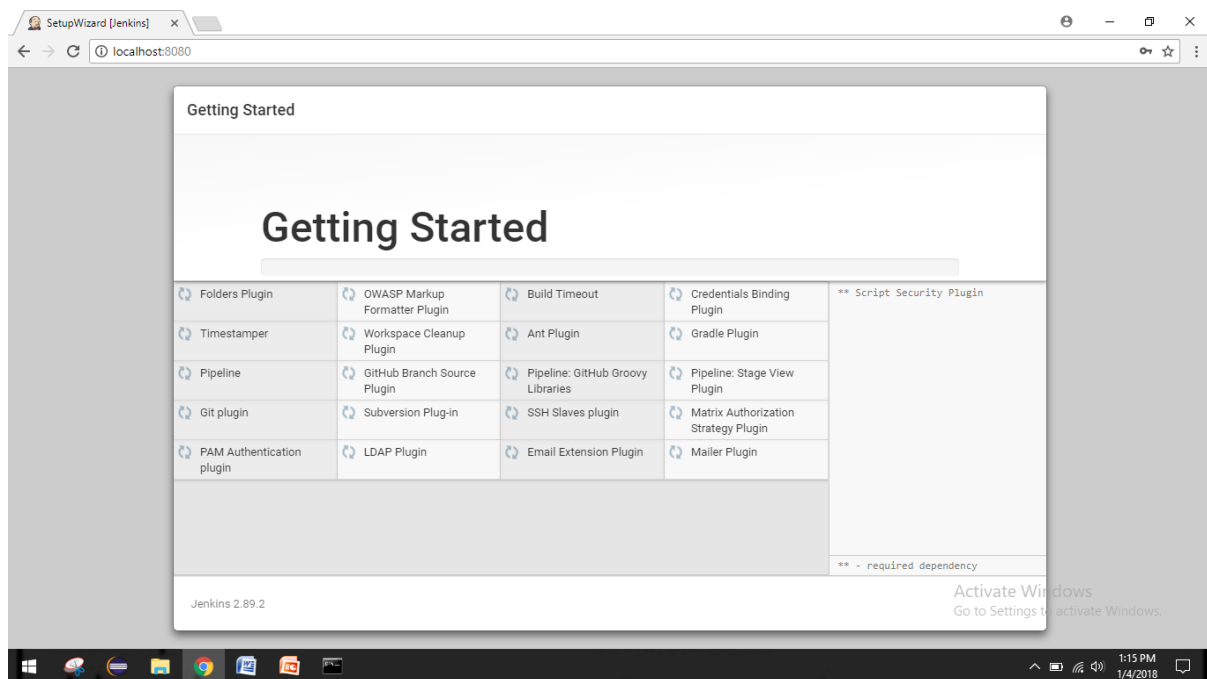


6. Click Continue

7. Click Install Suggested plugins



Installation of plugins will take some time, depending upon the internet connectivity speed



Once plugins are installed successfully,

8. Create an account to use Jenkins

The image shows two screenshots of the Jenkins Setup Wizard interface, specifically the 'Create First Admin User' screen. The browser address bar indicates the URL is localhost:8080.

First Screenshot (Empty Form):

- Username:**
- Password:**
- Confirm password:**
- Full name:**
- E-mail address:**

Buttons at the bottom: [Continue as admin](#) and [Save and Finish](#).

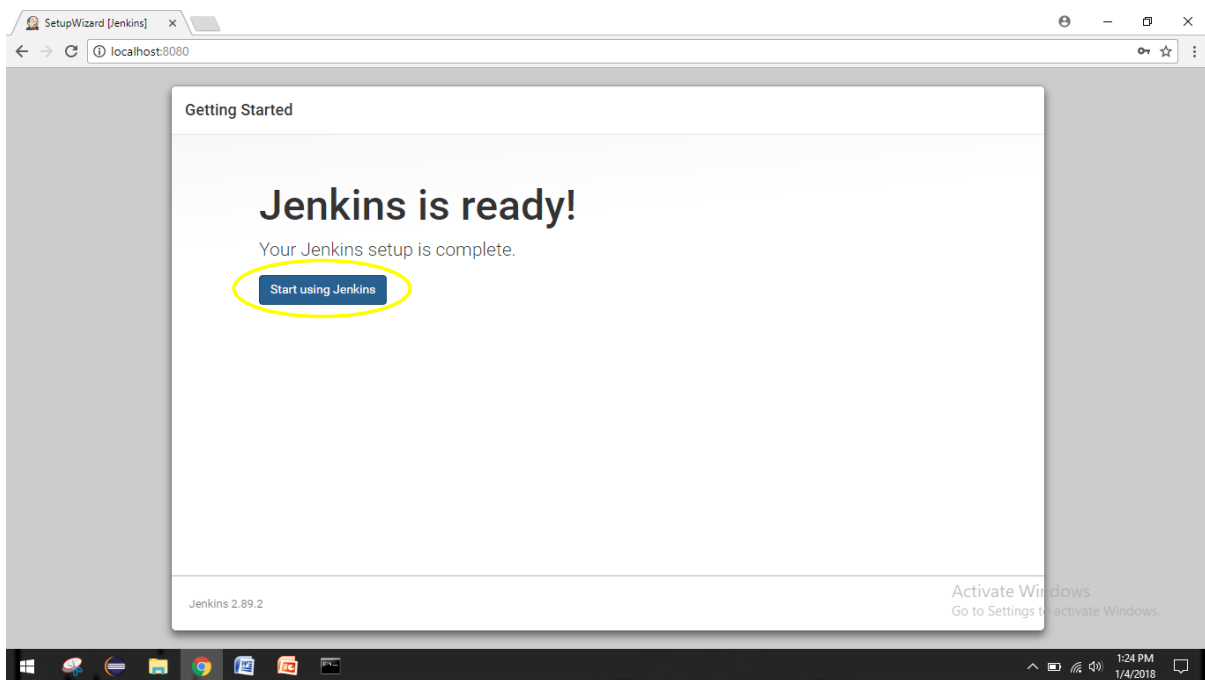
Second Screenshot (Filled Form):

- Username:** test
- Password:**
- Confirm password:**
- Full name:** Koushik Chatterjee
- E-mail address:** koushik@testleaf.com

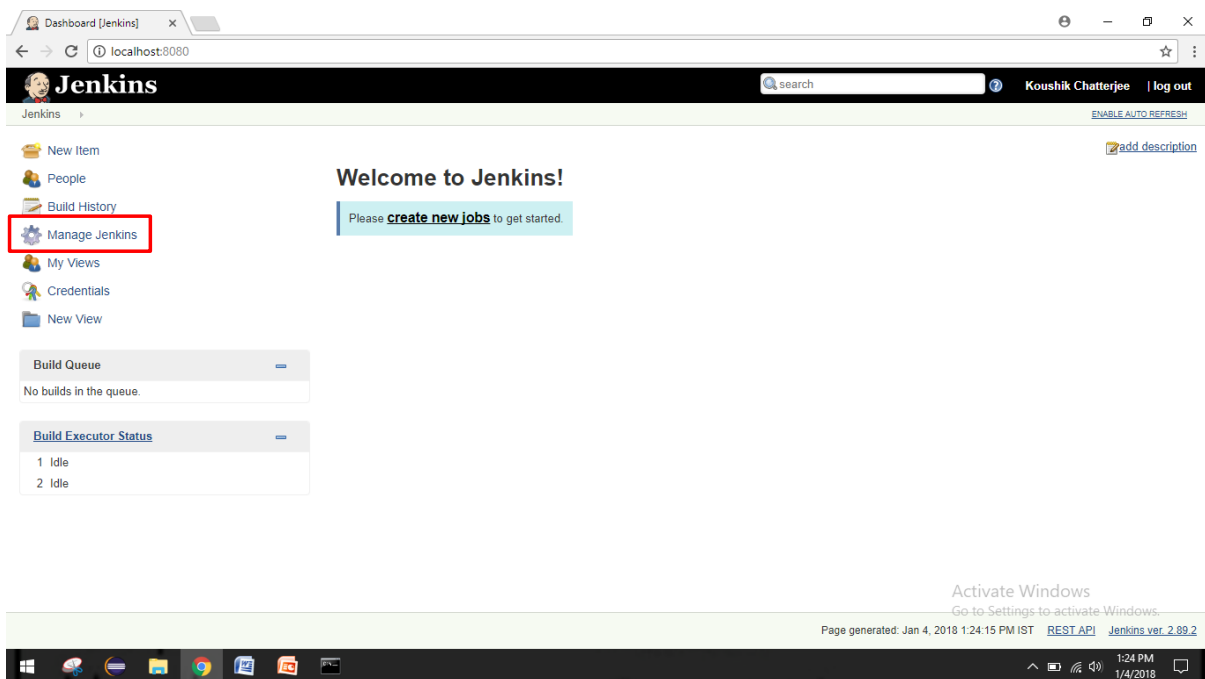
Buttons at the bottom: [Continue as admin](#) and [Save and Finish](#).

Remember the user name and password for future use

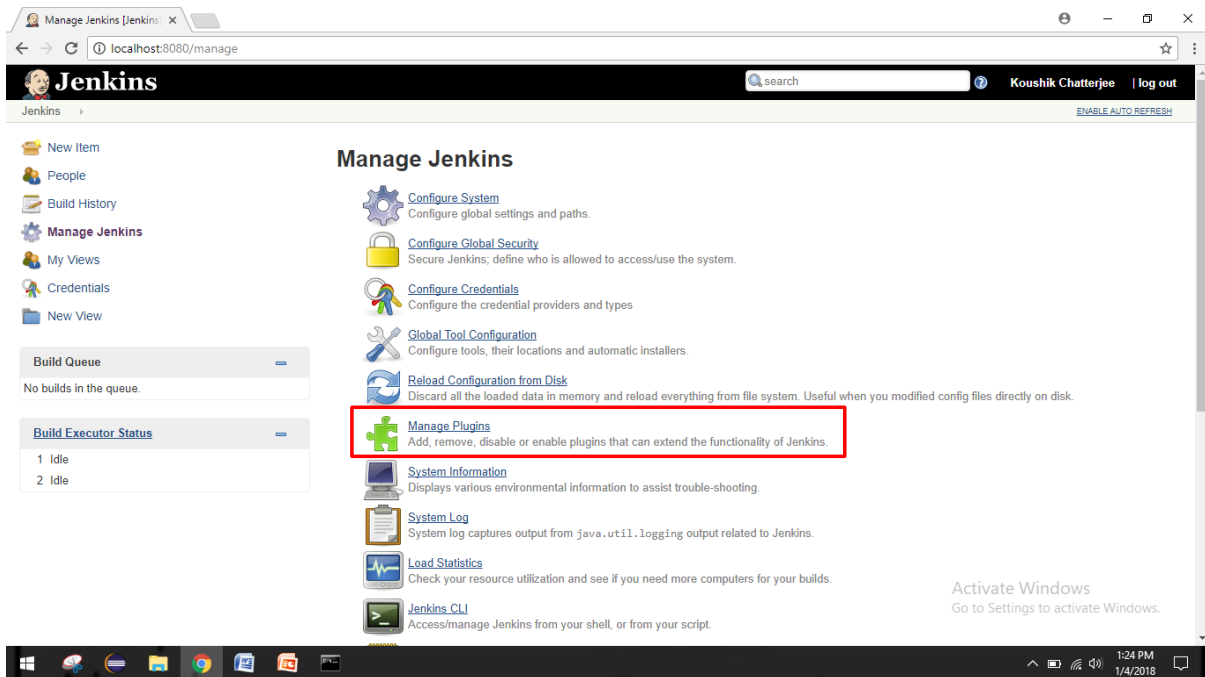
9. Click on Start using Jenkins



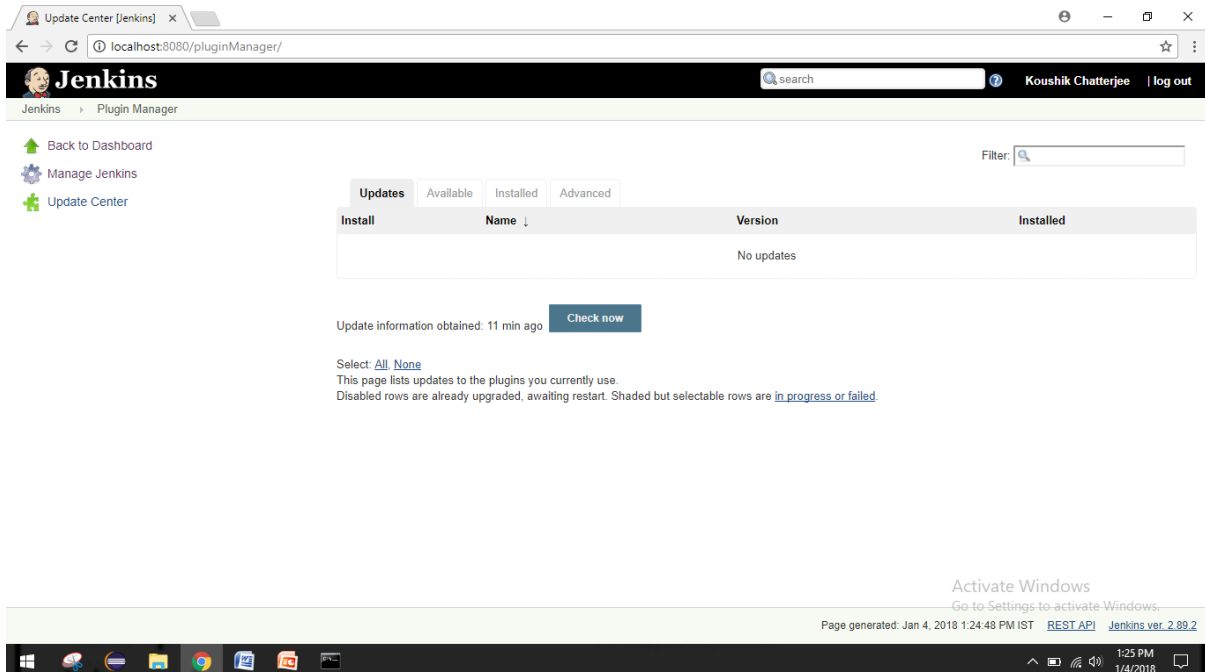
10. Click on Manage Jenkins



11. Click on Manage Plugins



The screenshot shows the Jenkins 'Manage Jenkins' page. The left sidebar contains links: New Item, People, Build History, Manage Jenkins (selected), My Views, Credentials, and New View. Below these are sections for 'Build Queue' (No builds in the queue) and 'Build Executor Status' (2 Idle). The main content area is titled 'Manage Jenkins' and lists several configuration options: Configure System, Configure Global Security, Configure Credentials, Global Tool Configuration, Reload Configuration from Disk, Manage Plugins (highlighted with a red box), System Information, System Log, Load Statistics, and Jenkins CLI. The 'Manage Plugins' option is described as 'Add, remove, disable or enable plugins that can extend the functionality of Jenkins.' The bottom of the page shows a Windows taskbar with the time 1:24 PM on 1/4/2018.



The screenshot shows the Jenkins 'Update Center' page. The left sidebar has links: Back to Dashboard, Manage Jenkins, and Update Center (selected). The main content area has a 'Filter' input field and a tabbed interface with 'Updates', 'Available', 'Installed', and 'Advanced' tabs. The 'Updates' tab is active, showing a table with columns: Install, Name, Version, and Installed. The table is currently empty, displaying 'No updates'. Below the table, it says 'Update information obtained: 11 min ago' with a 'Check now' button. A note at the bottom states: 'Select: All, None. This page lists updates to the plugins you currently use. Disabled rows are already upgraded, awaiting restart. Shaded but selectable rows are in progress or failed.' The bottom of the page shows a Windows taskbar with the time 1:25 PM on 1/4/2018.

12. Click on Available
13. Click on search field and type maven and press enter
14. Check on Maven Integration plugin
15. Click on Download and Install after restart

The first screenshot shows the Jenkins Update Center 'Available' tab. A search filter 'maven' is applied. The 'Maven Integration plugin' is selected and highlighted with a yellow circle. The 'Download now and install after restart' button is highlighted with a red box.

Name	Version
Maven Artifact ChoiceListProvider (Nexus)	1.2.2
Maven Metadata Plugin for Jenkins CI server	1.5.0
Maven Integration plugin	3.0
Maven Dependency Update Trigger	1.5
Unleash Maven Plugin	2.3.0
Maven Release Plug-in Plug-in	0.14.0
Config File Provider Plugin	2.16.4
Jira Issue Updater	1.18

The second screenshot shows the Jenkins Update Center 'Update Center' page. The 'Maven Integration plugin' is listed as 'Pending'.

Plugin	Status
GitHub plugin	Success
GitHub Branch Source Plugin	Success
Pipeline: GitHub Groovy Libraries	Success
Pipeline: Stage View Plugin	Success
Git plugin	Success
MapDB API Plugin	Success
Subversion Plug-in	Success
SSH Slaves plugin	Success
Matrix Authorization Strategy Plugin	Success
PAM Authentication plugin	Success
LDAP Plugin	Success
Email Extension Plugin	Success
Mailer Plugin	Success
Javadoc Plugin	Pending
Maven Integration plugin	Pending

Once download is over and plugin got installed successfully (can be confirmed by viewing at the console)

```
C:\Windows\System32\cmd.exe - java -jar jenkins.war
at org.eclipse.jetty.io.ChannelEndPoint.flush(ChannelEndPoint.java:292)
at org.eclipse.jetty.io.WriteFlusher.flush(WriteFlusher.java:429)
at org.eclipse.jetty.io.WriteFlusher.write(WriteFlusher.java:322)
at org.eclipse.jetty.io.AbstractEndPoint.write(AbstractEndPoint.java:372)
at org.eclipse.jetty.server.HttpConnection$SendCallback.process(HttpConnection.java:749)
at org.eclipse.jetty.util.IteratingCallback.processing(IteratingCallback.java:241)
at org.eclipse.jetty.util.IteratingCallback.iterate(IteratingCallback.java:224)
at org.eclipse.jetty.server.HttpConnection.send(HttpConnection.java:521)
at org.eclipse.jetty.server.HttpChannel.sendResponse(HttpChannel.java:717)
at org.eclipse.jetty.server.HttpChannel.write(HttpChannel.java:768)
at org.eclipse.jetty.server.HttpOutput.write(HttpOutput.java:234)
at org.eclipse.jetty.server.HttpOutput.write(HttpOutput.java:218)
at org.eclipse.jetty.server.HttpOutput.write(HttpOutput.java:535)
at com.jcraft.jzlib.DeflaterOutputStream.deflate(DeflaterOutputStream.java:144)
at com.jcraft.jzlib.DeflaterOutputStream.write(DeflaterOutputStream.java:102)
at org.kohsuke.stapler.compression.FilterServletOutputStream.write(FilterServletOutputStream.java:41)
at org.kohsuke.stapler.jelly.DefaultScriptInvoker$1.write(DefaultScriptInvoker.java:99)
at sun.nio.cs.StreamEncoder.writeBytes(Unknown Source)
at sun.nio.cs.StreamEncoder.implFlushBuffer(Unknown Source)
at sun.nio.cs.StreamEncoder.implFlush(Unknown Source)
at sun.nio.cs.StreamEncoder.flush(Unknown Source)
at java.io.OutputStreamWriter.flush(Unknown Source)
at java.io.BufferedWriter.flush(Unknown Source)
at org.dom4j.io.XMLWriter.flush(XMLWriter.java:276)
at org.apache.commons.jelly.XMLOutput.flush(XMLOutput.java:127)
at org.apache.commons.jelly.impl.TagScript.run(TagScript.java:271)
... 124 more
Caused by: java.io.IOException: An established connection was aborted by the software in your host machine
at sun.nio.ch.SocketDispatcher.writev0(Native Method)
at sun.nio.ch.SocketDispatcher.writev(Unknown Source)
at sun.nio.ch.IOUtil.write(Unknown Source)
at sun.nio.ch.SocketChannelImpl.write(Unknown Source)
at org.eclipse.jetty.io.ChannelEndPoint.flush(ChannelEndPoint.java:272)
... 149 more

[0mJan 04, 2018 1:30:22 PM hudson.model.UpdateSite$Plugin deploy
INFO: Dependent install of javadoc for plugin maven-plugin already added, skipping
Jan 04, 2018 1:30:22 PM hudson.model.UpdateCenter$DownloadJob run
INFO: Starting the installation of Maven Integration plugin on behalf of test
Jan 04, 2018 1:30:22 PM hudson.model.UpdateCenter$InstallationJob _run
INFO: Skipping duplicate install of: Maven Integration plugin@3.0
Jan 04, 2018 1:30:22 PM hudson.model.UpdateCenter$DownloadJob run
INFO: Installation successful: Maven Integration plugin
```

16. Now close the browser and also the console

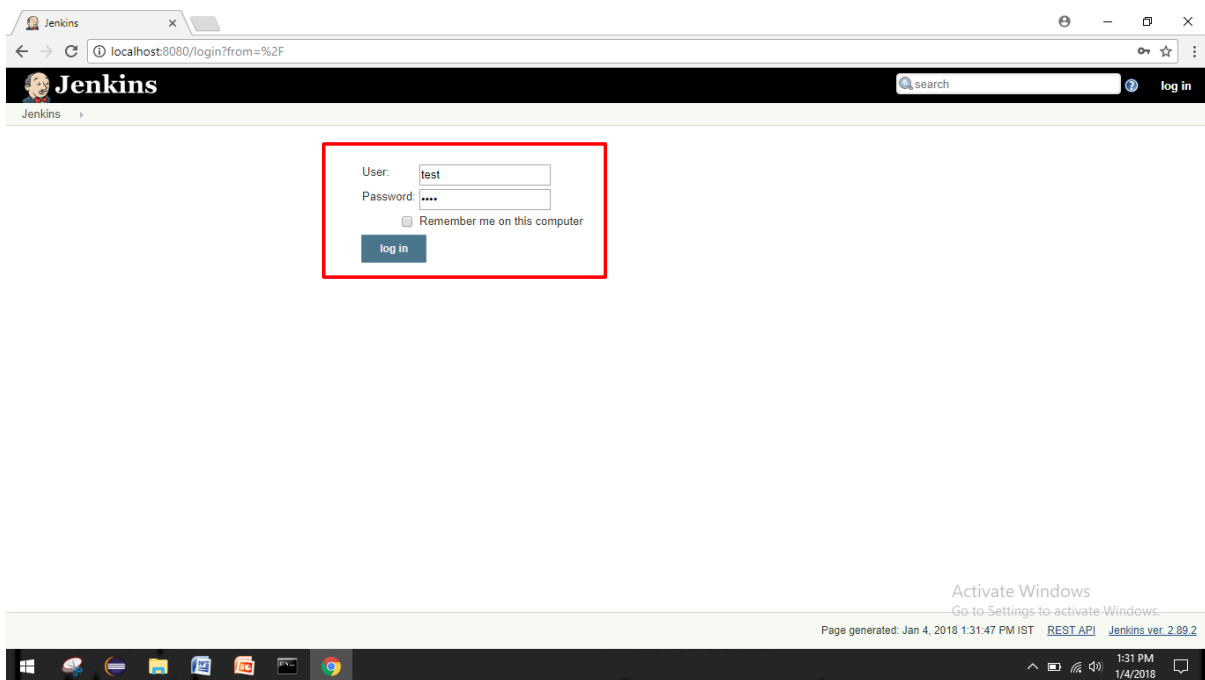
Again start the Jenkins (Repeat Step - 3)

```
C:\Windows\System32\cmd.exe - java -jar jenkins.war
Microsoft Windows [Version 10.0.16299.125]
(c) 2017 Microsoft Corporation. All rights reserved.

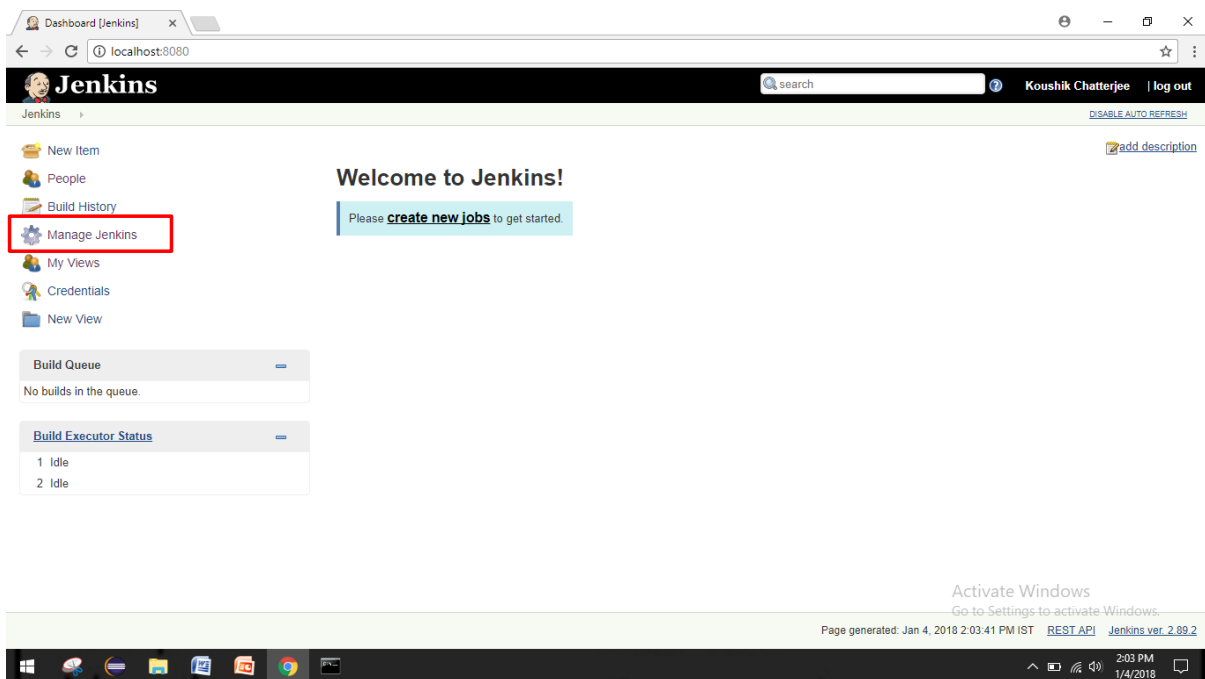
C:\Users\TestLeaf\Desktop\koushik\Jenkins>java -jar jenkins.war
Running from: C:\Users\TestLeaf\Desktop\koushik\Jenkins\jenkins.war
webroot: $user.home/.jenkins

Jan 04, 2018 1:34:02 PM jenkins.InitReactorRunner$1 onAttained
INFO: Completed initialization
Jan 04, 2018 1:34:06 PM hudson.Main$2 _run
INFO: Jenkins is fully up and running
```

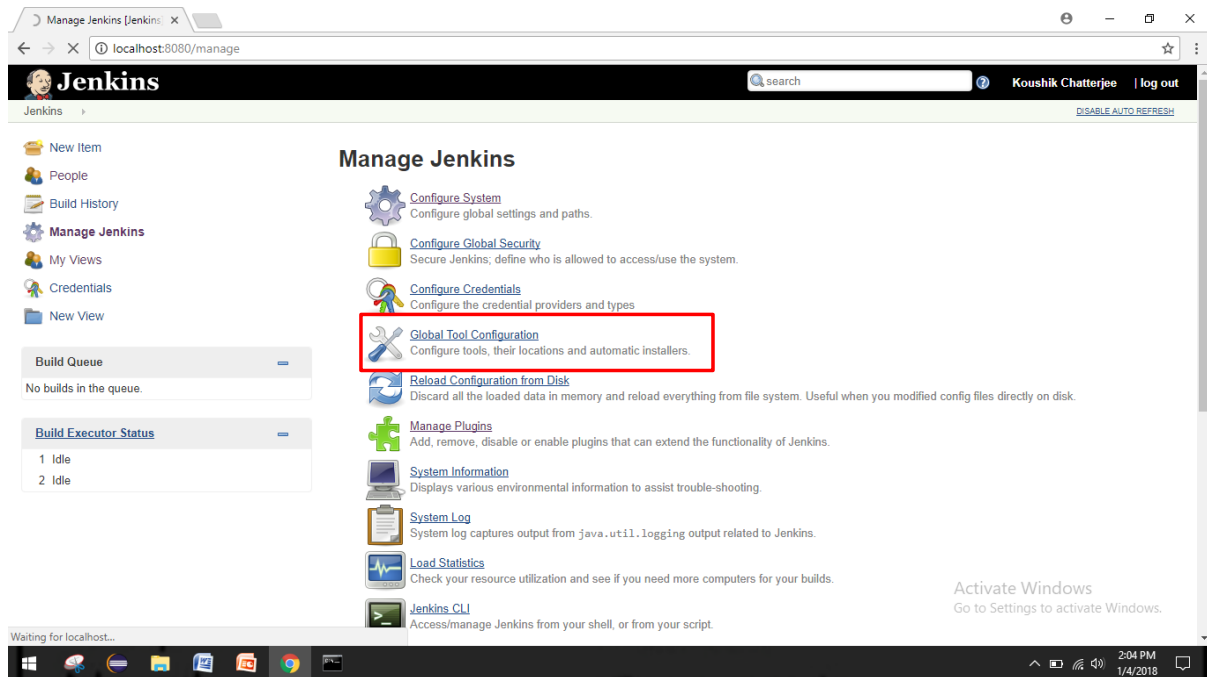

17. Login using the credentials



18. Click on Manage Jenkins



19. Click Global Tool Configurations

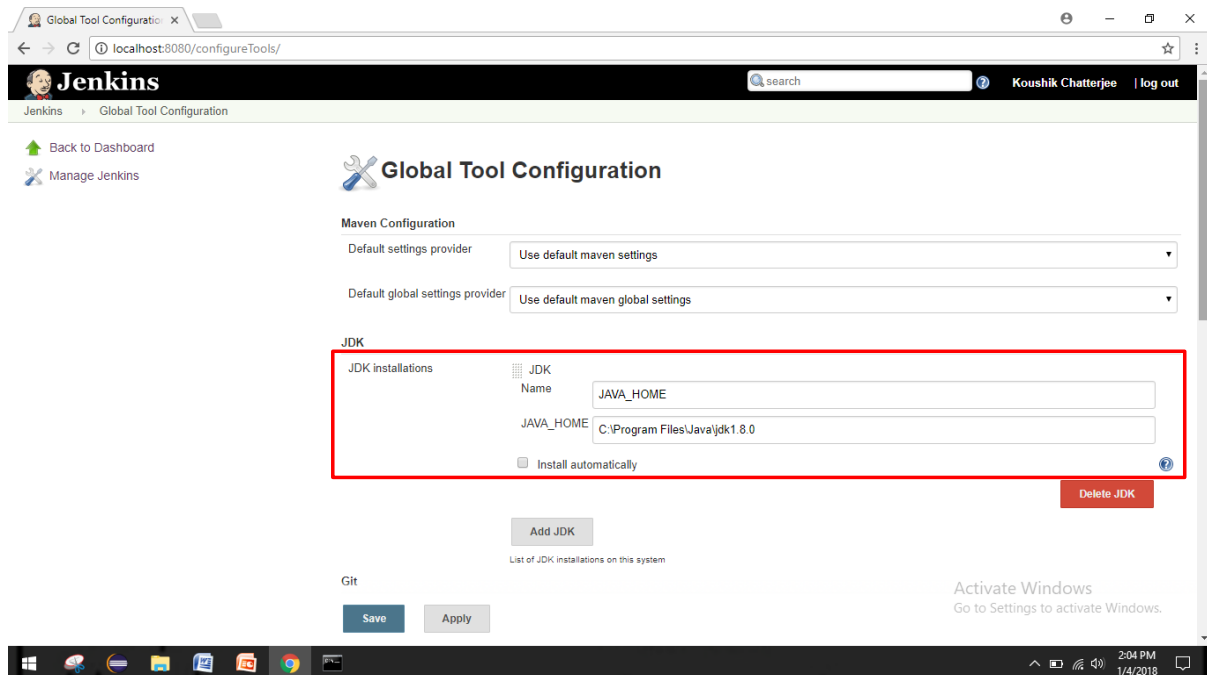


20. Set Path for JDK

21. Uncheck Install Automatically (To make appear the textbox)

22. Type JAVA_HOME as name

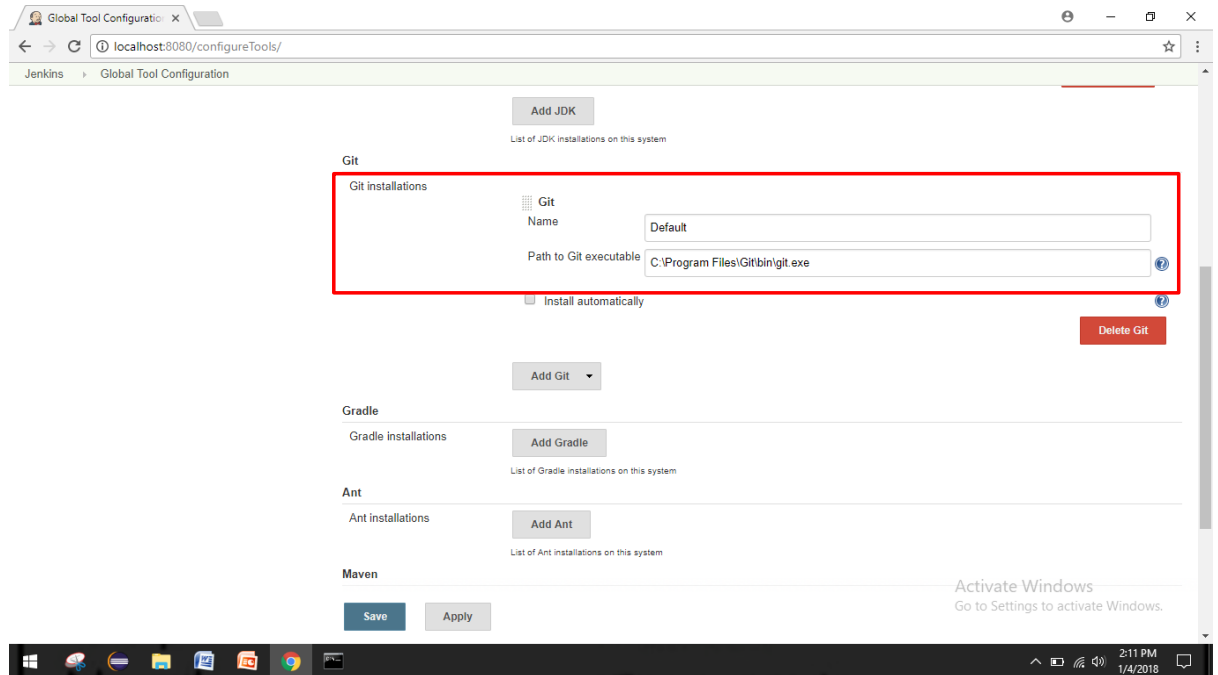
23. Paste the path of jdk



24. Set path for Git

25. Uncheck Install Automatically

(Please refer Git installation Guide to install Git, if git is not already installed)



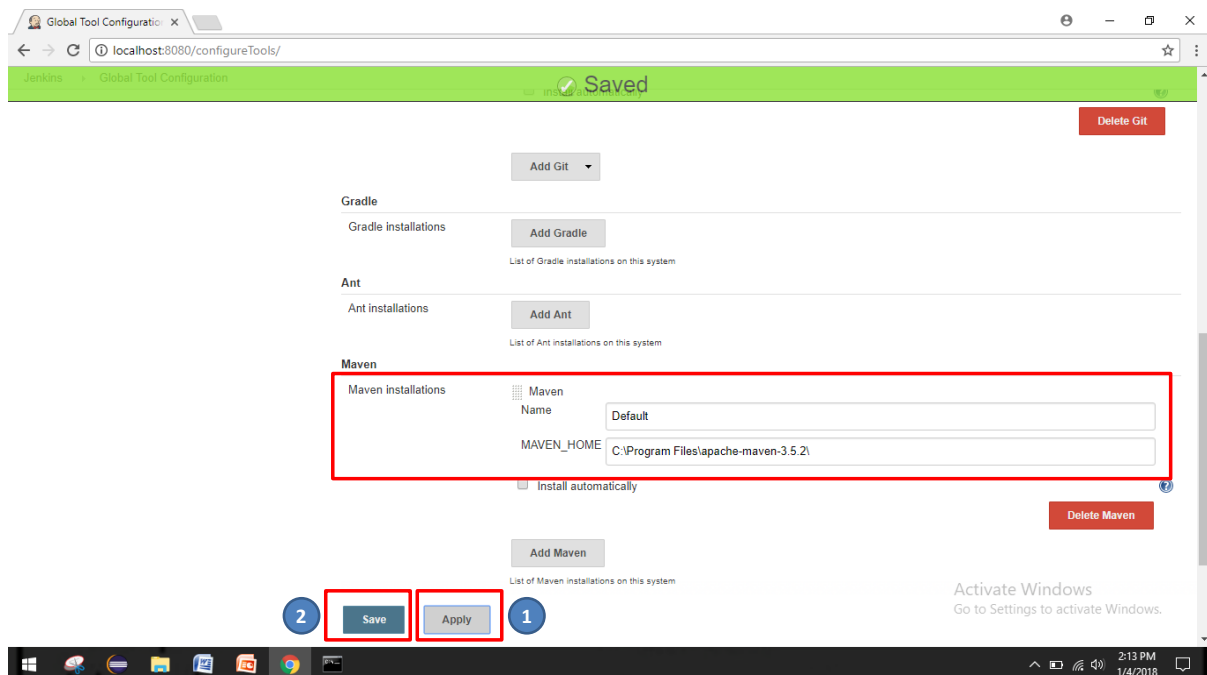
26. Similarly set path for Maven

(Refer Maven Installation guide)

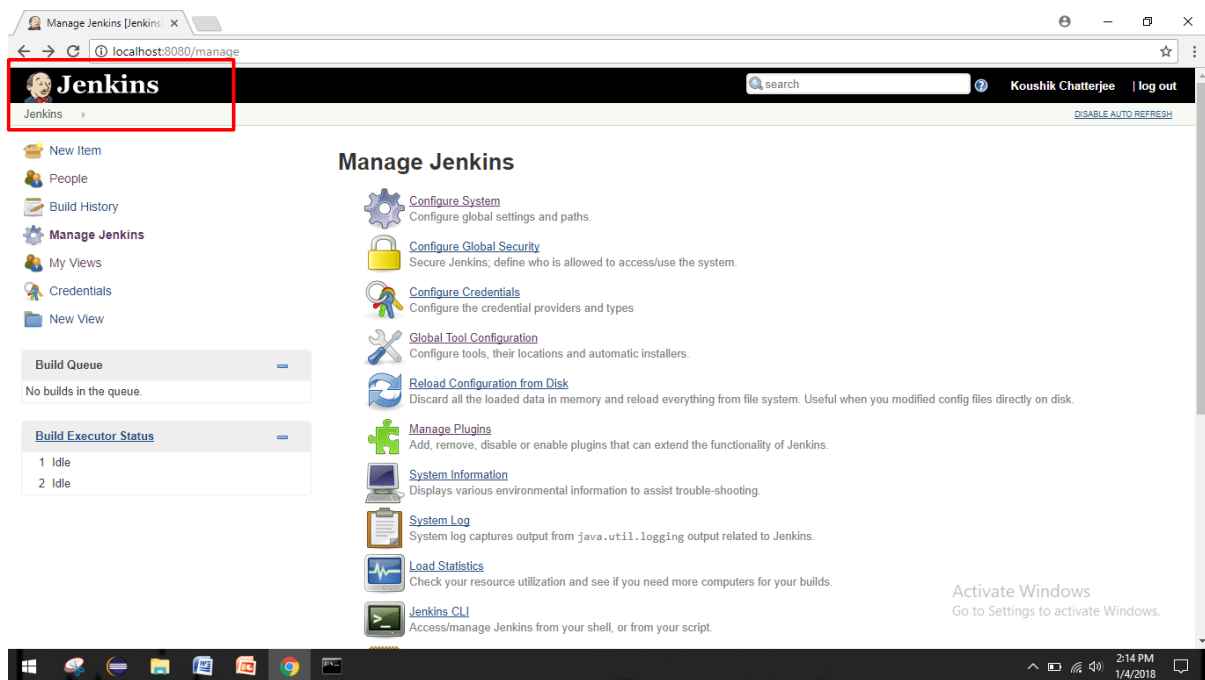
27. Uncheck Install Automatically

28. Click Apply

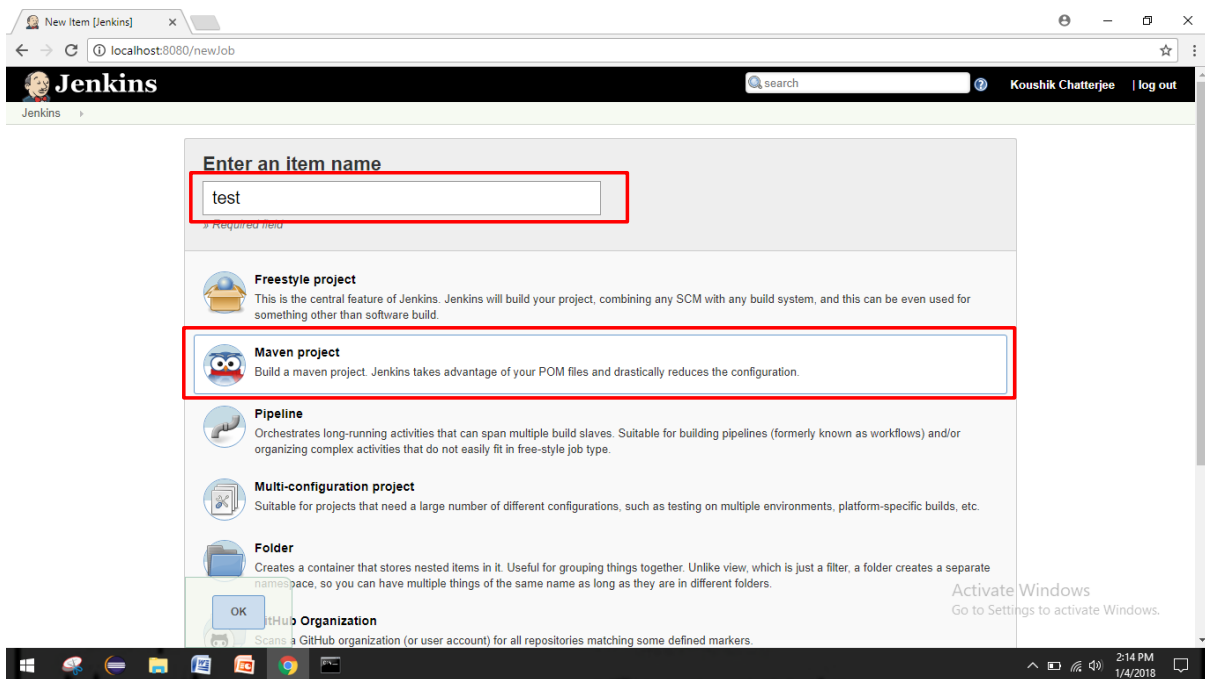
29. Click Save



30. Now Click on Jenkins



31. Create a Maven Project



Congratulations

Installation completed.

Thank you!