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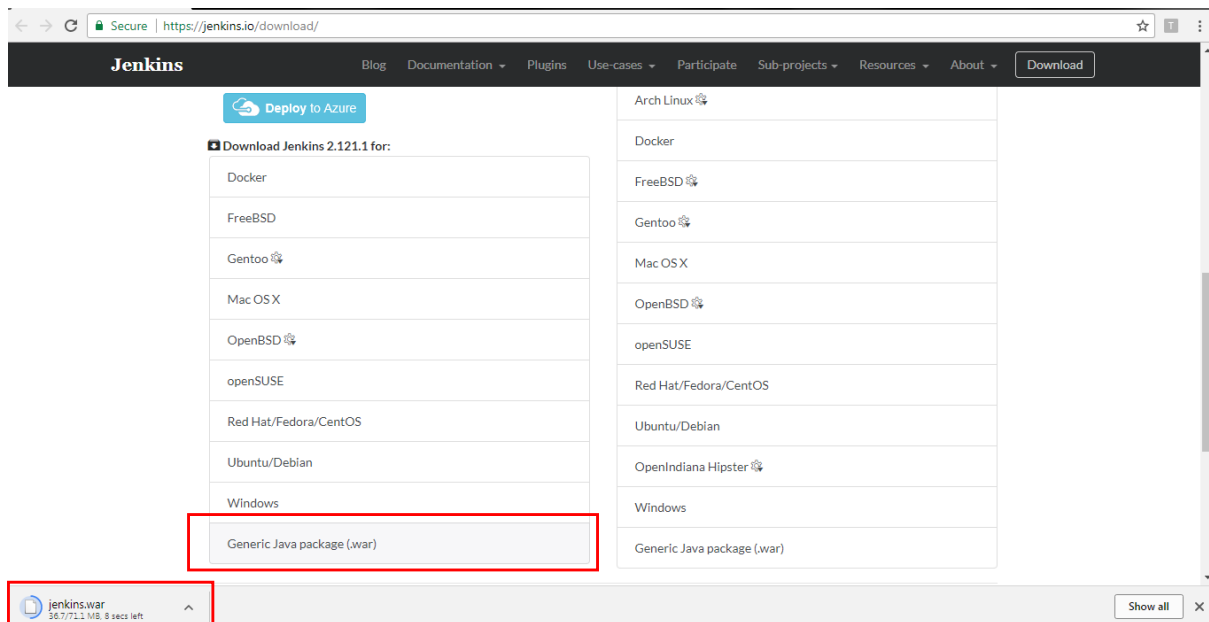
# 1) Jenkins Installation

## Required Files

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

Steps to follow:

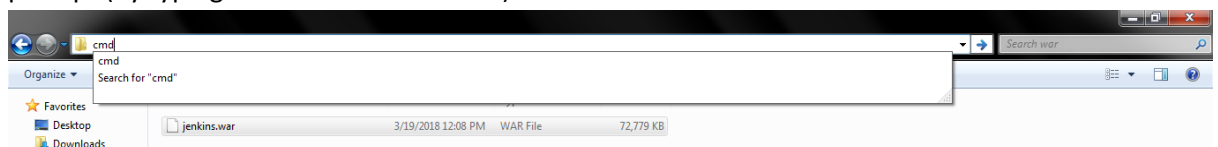
1. Go to the link and download the war file
2. <https://jenkins.io/download/>



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 (by typing cmd in the address bar)



Type: **java -jar jenkins.war**

```
C:\Windows\System32\cmd.exe - java -jar jenkins.war
Microsoft Windows [Version 10.0.16299.192]
(c) 2017 Microsoft Corporation. All rights reserved.

E:\Koushik\Documents\Jenkins>java -jar jenkins.war
Running from: E:\Koushik\Documents\Jenkins\jenkins.war
webroot: $user.home/.jenkins
Feb 12, 2018 4:09:46 PM Main deleteWinstoneTempContents
WARNING: Failed to delete the temporary Winstone file C:\Users\TestLeaf\AppData\Local\Temp\winstone\jenkins.war
Feb 12, 2018 4:09:46 PM org.eclipse.jetty.util.log.Log initialized
INFO: Logging initialized @1763ms to org.eclipse.jetty.util.log.JavaUtilLog
Feb 12, 2018 4:09:46 PM winstone.Logger logInternal
INFO: Beginning extraction from war file
```

```
C:\Windows\System32\cmd.exe - java -jar jenkins.war
INFO:

*****
*****
*****

Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

14833cd60da648cd95381ea3d50ff881

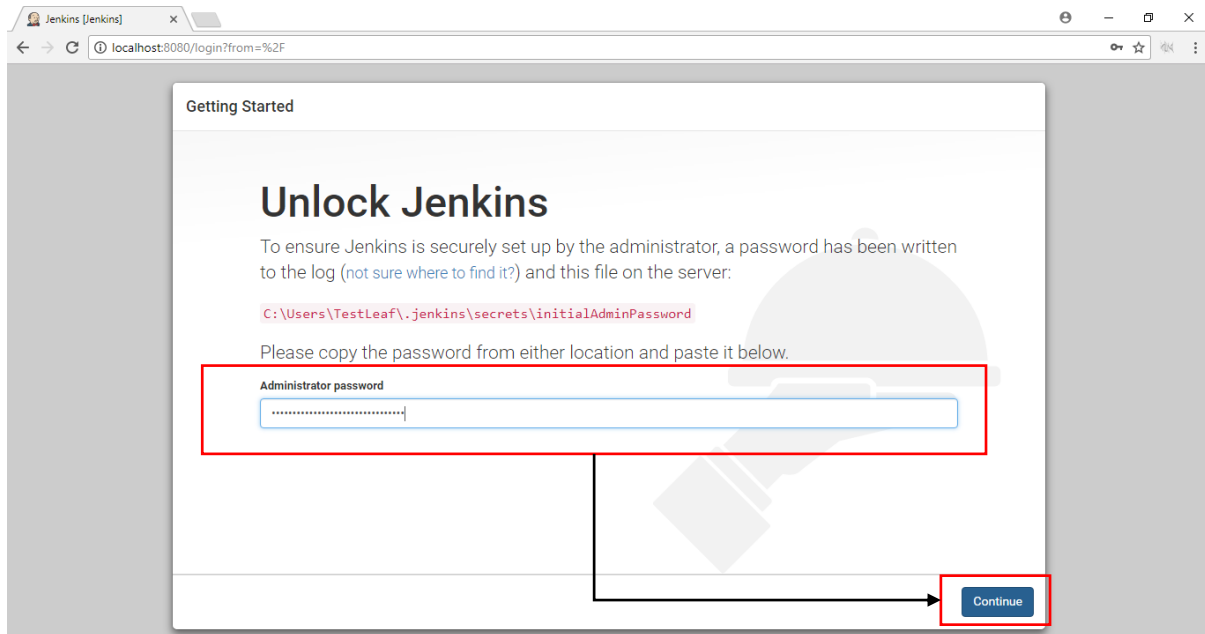
This may also be found at: C:\Users\TestLeaf\.jenkins\secrets\initialAdminPassword

*****
*****
*****

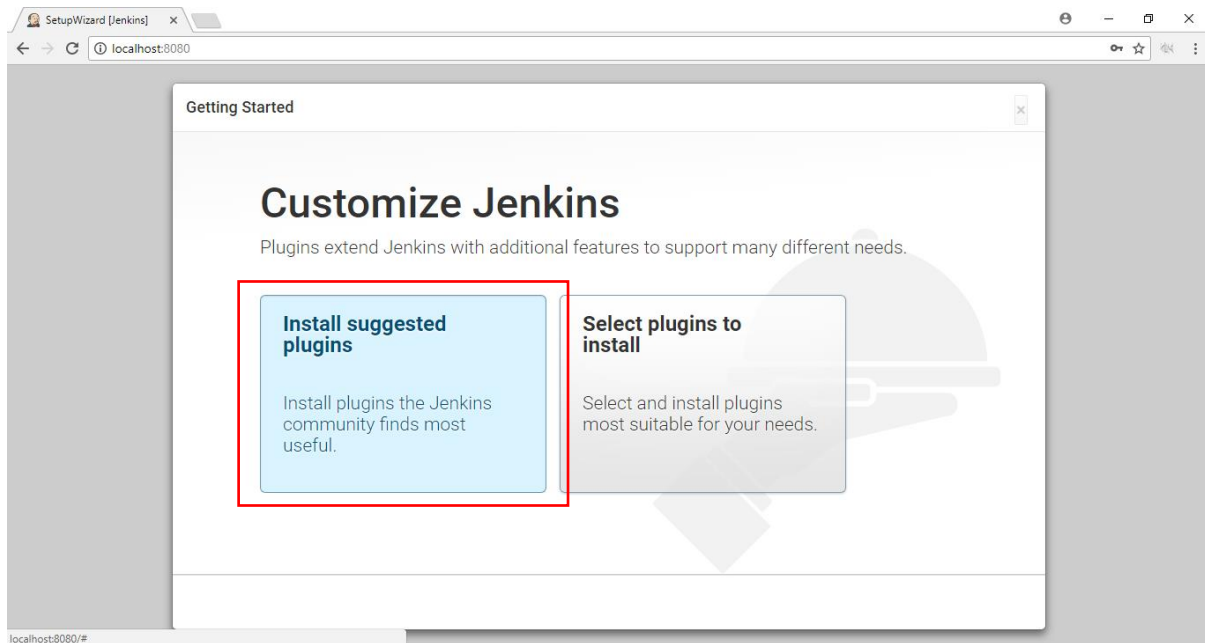
Feb 12, 2018 4:11:49 PM hudson.model.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
Feb 12, 2018 4:11:51 PM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
Feb 12, 2018 4:11:53 PM hudson.model.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
Feb 12, 2018 4:11:53 PM hudson.WebAppMain$3 run
INFO: Jenkins is fully up and running
Feb 12, 2018 4:11:55 PM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tools.JDKInstaller
Feb 12, 2018 4:11:55 PM hudson.model.AsyncPeriodicWork$1 run
INFO: Finished Download metadata. 25,706 ms
```

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

## 6. Click Continue

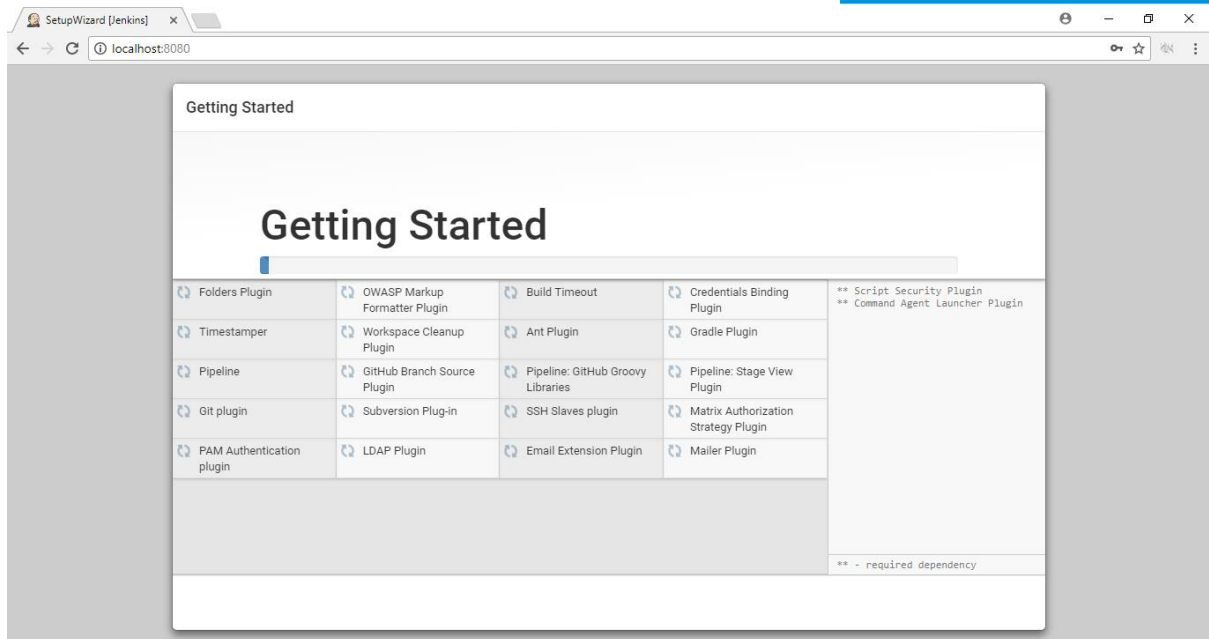


## 7. Click Install Suggested plugins



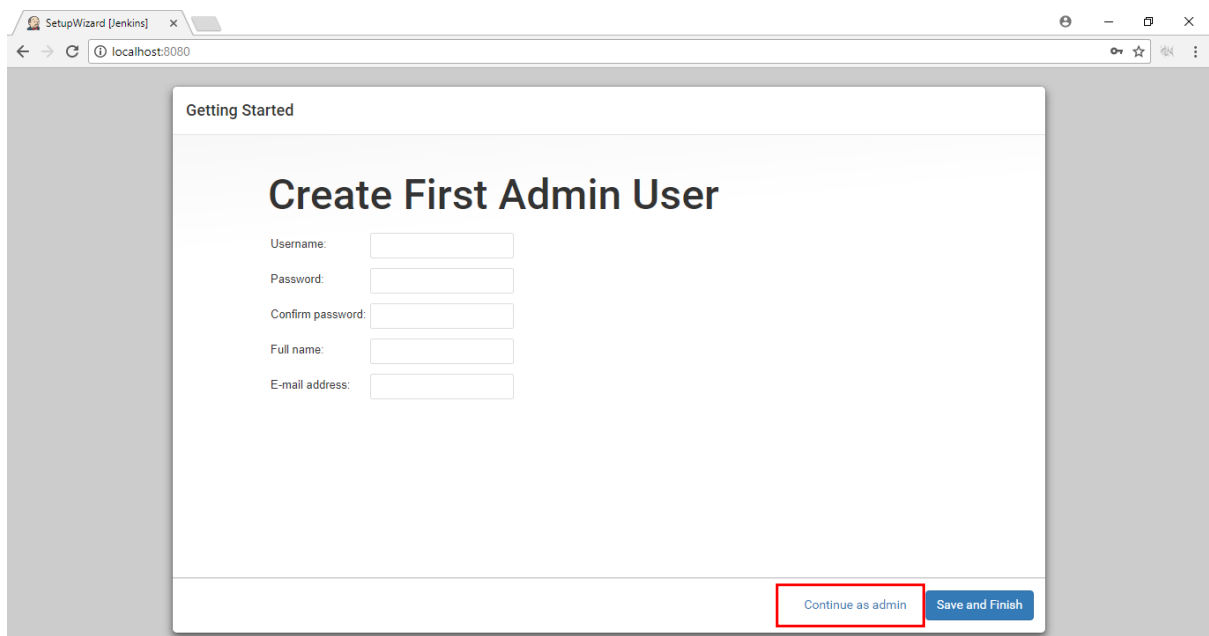
Installation of plugins will take some time, depending upon the internet connectivity speed

(If you are not able to see the page, check the index page for solution) [Top of the Document](#)



Once plugins are installed successfully,

8. Click Continue as admin



9. Click Save and Finish

Getting Started

# Instance Configuration

Jenkins URL:

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD\_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Not now

Save and Finish

10. Click Start using Jenkins

SetupWizard [Jenkins] x

localhost:8080

Getting Started

# Jenkins is ready!

You have skipped the **setup of an admin user**.

To log in, use the username: "admin" and the administrator password you used to access the setup wizard.

Your Jenkins setup is complete.

Start using Jenkins

## 11. Click on Manage Jenkins

The screenshot shows the Jenkins web interface in a browser window. The browser's address bar displays 'localhost:8080'. The Jenkins header includes a search bar, 'admin' link, and 'log out' button. The left sidebar contains a list of links: 'New Item', 'People', 'Build History', 'Manage Jenkins' (highlighted with a red box), 'My Views', 'Credentials', and 'New View'. The main content area features a 'Welcome to Jenkins!' message with a prompt to 'create new jobs'. Below this, there are two sections: 'Build Queue' (showing 'No builds in the queue.') and 'Build Executor Status' (showing two 'Idle' executors).

Dashboard [Jenkins] x

localhost:8080

Jenkins

search admin log out

DISABLE AUTO REFRESH

add description

New Item

People

Build History

Manage Jenkins

My Views

Credentials

New View

Build Queue

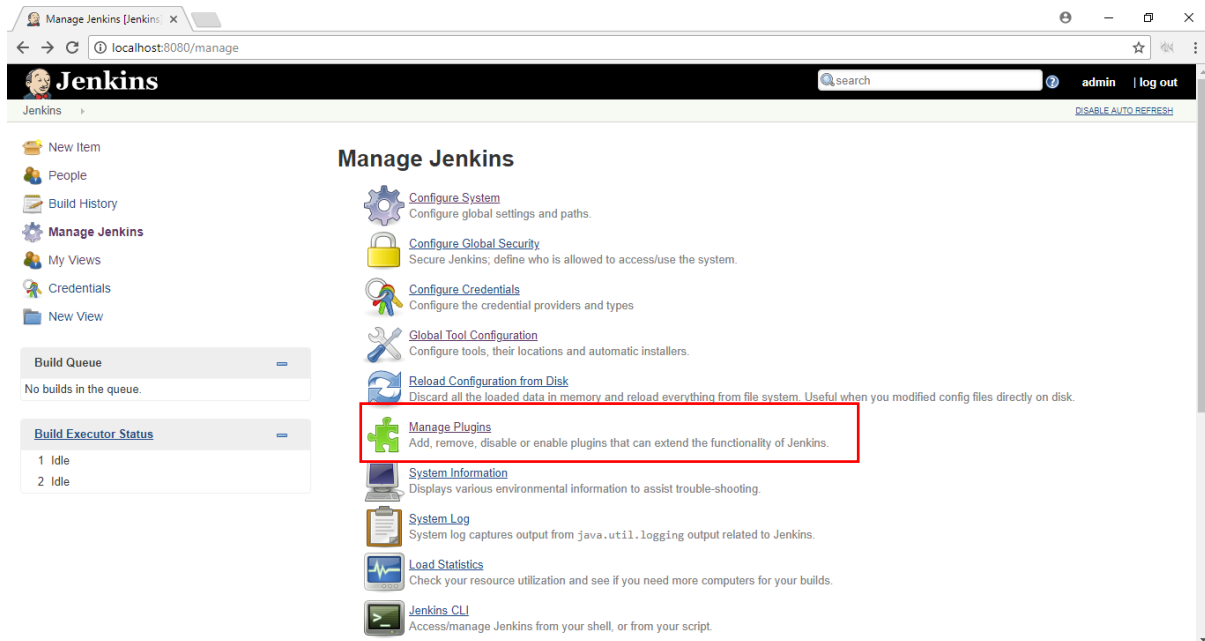
No builds in the queue.

Build Executor Status

1 Idle

2 Idle

## 12. Click on Manage Plugins



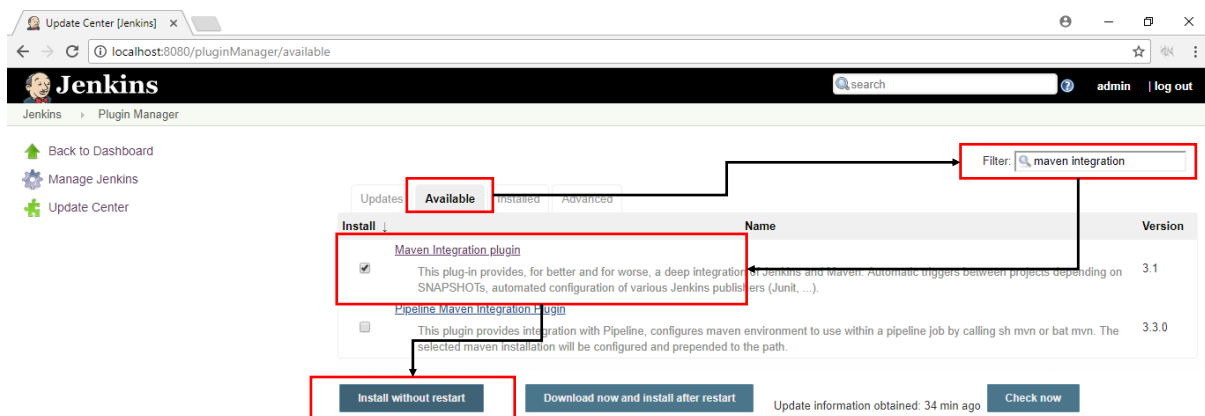
The screenshot shows the Jenkins 'Manage Jenkins' page. The left sidebar contains links like 'New Item', 'People', 'Build History', 'Manage Jenkins', 'My Views', 'Credentials', and 'New View'. The main content area is titled 'Manage Jenkins' and lists several configuration options. The 'Manage Plugins' option, which includes the subtext 'Add, remove, disable or enable plugins that can extend the functionality of Jenkins.', is highlighted with a red box. Other options include 'Configure System', 'Configure Global Security', 'Configure Credentials', 'Global Tool Configuration', 'Reload Configuration from Disk', 'System Information', 'System Log', 'Load Statistics', and 'Jenkins CLI'.

## 13. Click on Available

## 14. Click on search field and **type maven integration** and press enter

## 15. Check on Maven Integration plugin

## 16. Click on Install without restart

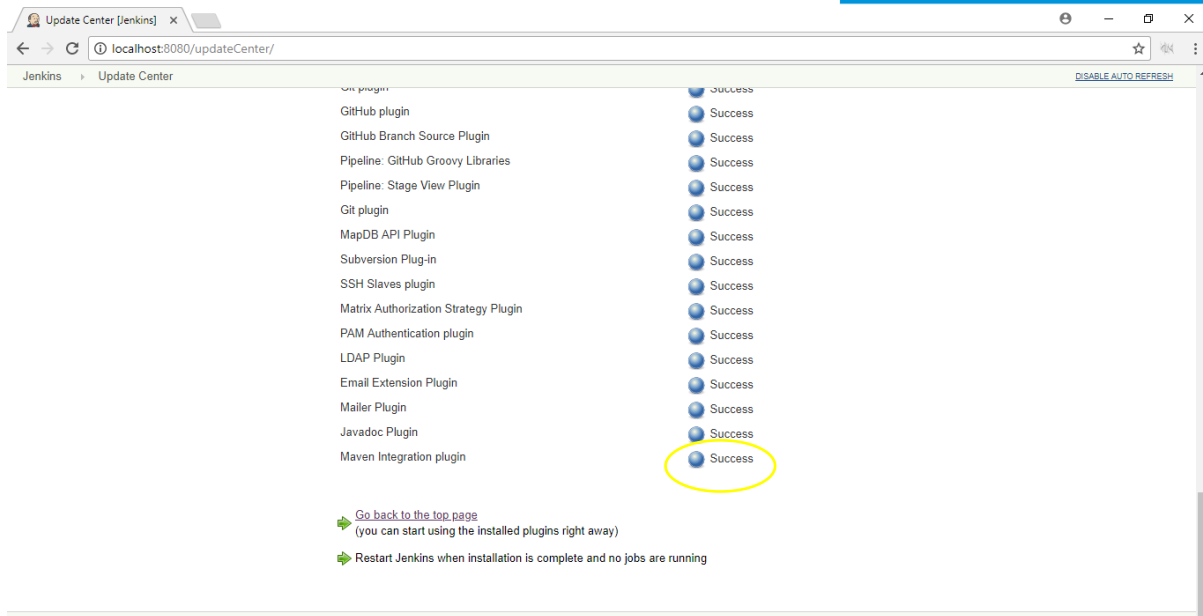


The screenshot shows the Jenkins 'Plugin Manager - Available' page. The 'Available' tab is selected. A search filter 'maven integration' is entered in the search field. The table below lists available plugins. The 'Maven Integration plugin' is checked, and the 'Install without restart' button is highlighted with a red box. The 'Pipeline Maven Integration plugin' is also listed.

Install	Name	Version
<input checked="" type="checkbox"/>	Maven Integration plugin This plug-in provides, for better and for worse, a deep integration between Jenkins and Maven. Automatic triggers between projects depending on SNAPSHOTS, automated configuration of various Jenkins publishers (JUnit, ...).	3.1
<input type="checkbox"/>	Pipeline Maven Integration plugin 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.	3.3.0

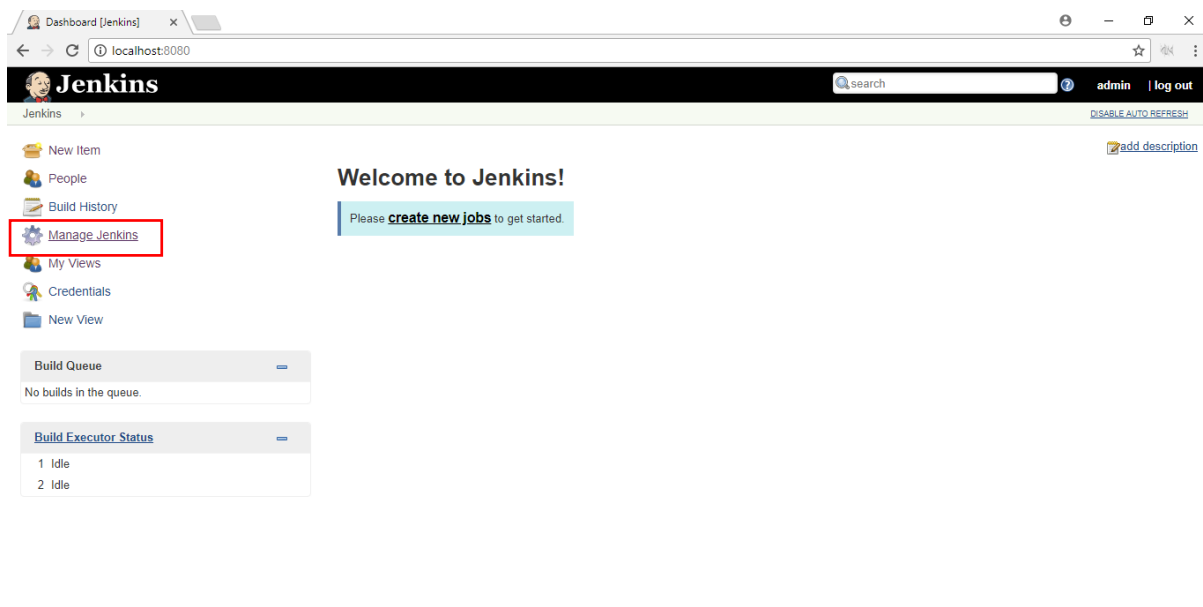
Buttons at the bottom: **Install without restart**, Download now and install after restart, Update information obtained: 34 min ago, Check now.



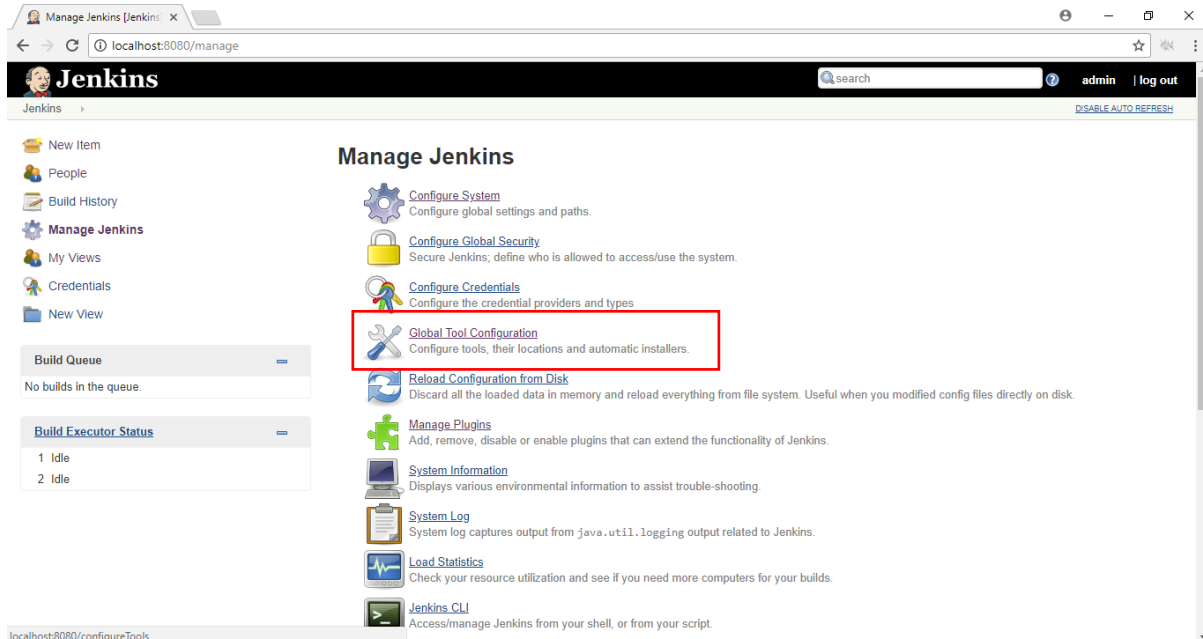


Once download is over and plugin got installed

## 17. Click Manage Jenkins



## 18. Click Global Tool Configurations



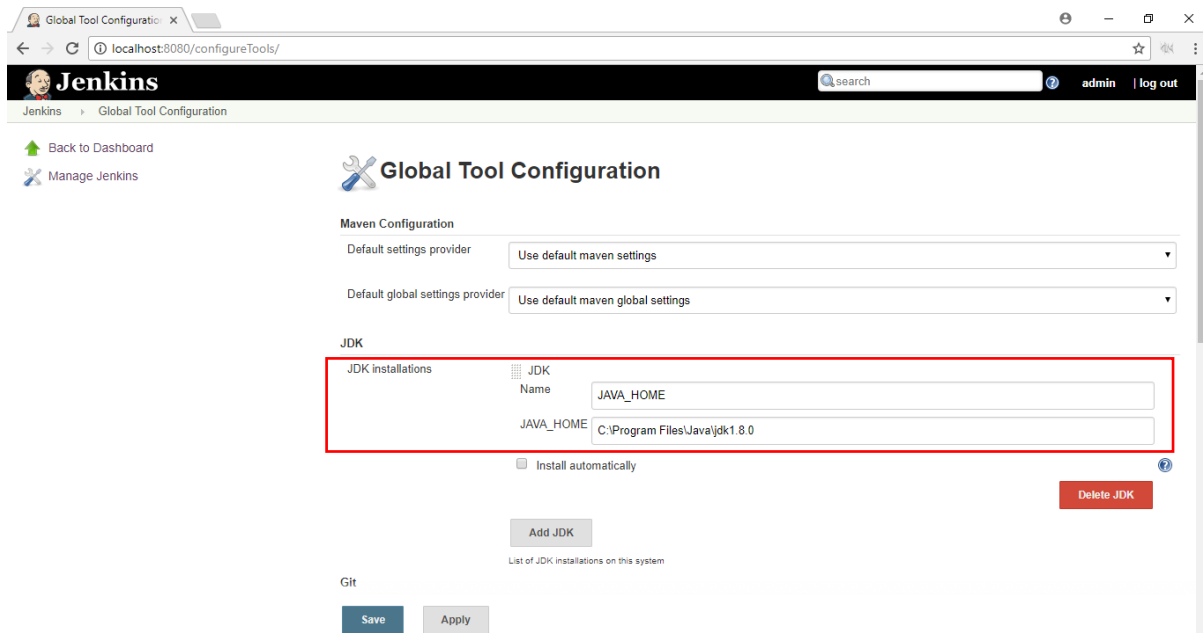
The screenshot shows the Jenkins 'Manage Jenkins' page. The left sidebar contains links like 'New Item', 'People', 'Build History', 'Manage Jenkins', 'My Views', 'Credentials', and 'New View'. The main content area is titled 'Manage Jenkins' and lists several configuration options: 'Configure System', 'Configure Global Security', 'Configure Credentials', 'Global Tool Configuration' (highlighted with a red box), 'Reload Configuration from Disk', 'Manage Plugins', 'System Information', 'System Log', 'Load Statistics', and 'Jenkins CLI'. The 'Global Tool Configuration' option is described as 'Configure tools, their locations and automatic installers.'

## 19. Set Path for JDK

## 20. Uncheck Install Automatically (To make the textbox to be appear)

## 21. Type JAVA\_HOME as name

## 22. Paste the path of jdk

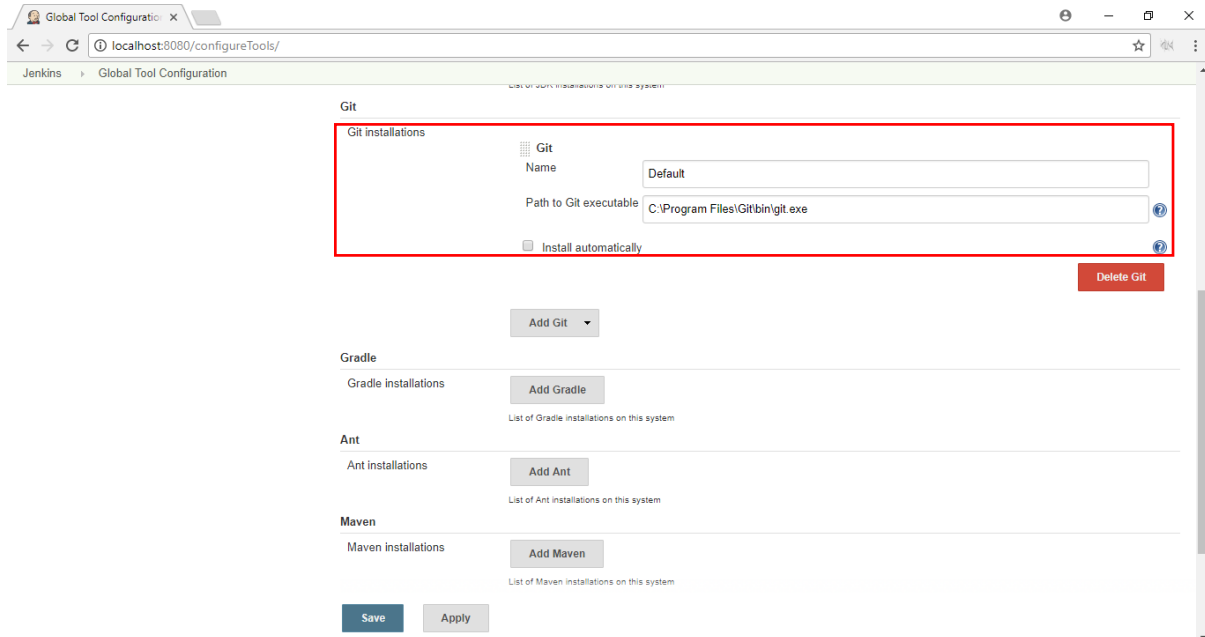


The screenshot shows the Jenkins 'Global Tool Configuration' page. The left sidebar has links for 'Back to Dashboard' and 'Manage Jenkins'. The main content area is titled 'Global Tool Configuration' and includes sections for 'Maven Configuration' and 'JDK'. Under 'JDK', there is a table for 'JDK installations'. The first entry has 'Name' set to 'JAVA\_HOME' and 'JAVA\_HOME' set to 'C:\Program Files\Java\jdk1.8.0'. The 'Install automatically' checkbox is unchecked. A red box highlights the 'Name' and 'JAVA\_HOME' fields. At the bottom, there are 'Save' and 'Apply' buttons.

23. Set path for Git

24. Uncheck Install Automatically

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



The screenshot shows the Jenkins Global Tool Configuration page for Git. The browser address bar shows `localhost:8080/configureTools/`. The page title is "Global Tool Configuration". The "Git" section is highlighted with a red box. It contains the following fields:

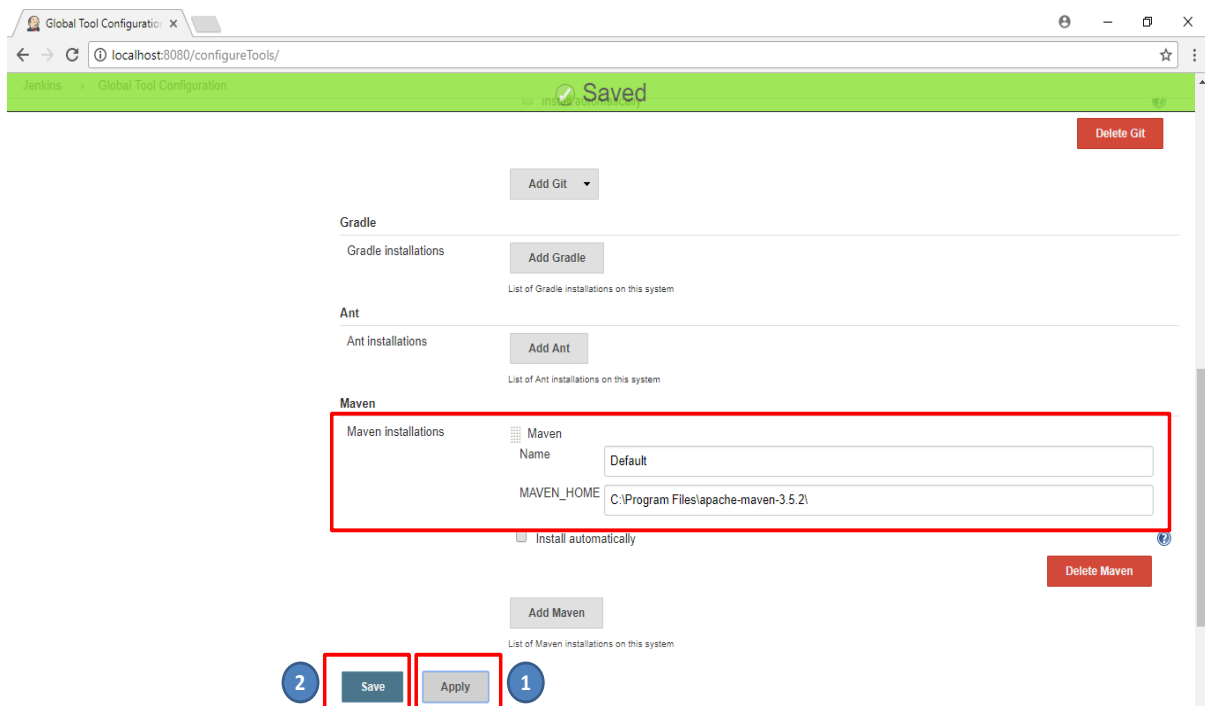
- Git installations**: A list of installed Git tools.
- Name**: A text field with the value "Default".
- Path to Git executable**: A text field with the value "C:\Program Files\Git\bin\git.exe".
- Install automatically**: A checkbox that is currently checked.

Below the Git section, there are sections for Gradle, Ant, and Maven, each with an "Add" button. At the bottom of the page, there are "Save" and "Apply" buttons.

25. Similarly set path for Maven

(Refer Maven Installation guide)

26. Uncheck Install Automatically



The screenshot shows the Jenkins Global Tool Configuration page for Maven. The browser address bar shows `localhost:8080/configureTools/`. The page title is "Global Tool Configuration". The "Maven" section is highlighted with a red box. It contains the following fields:

- Maven installations**: A list of installed Maven tools.
- Name**: A text field with the value "Default".
- MAVEN\_HOME**: A text field with the value "C:\Program Files\apache-maven-3.5.2\
- Install automatically**: A checkbox that is currently checked.

Below the Maven section, there is an "Add Maven" button. At the bottom of the page, there are "Save" and "Apply" buttons. The "Save" button is highlighted with a red box and a blue circle with the number "2" next to it. The "Apply" button is highlighted with a red box and a blue circle with the number "1" next to it.



27. Click Apply
28. Click Save
29. Click Logout

**Note:** If the command prompt is closed Jenkins will not run.

Complete the installation fully, if stops in between you will face issues

**Note: Username:** admin

**Password:**

**It can be found in the location C:\Users\{(user name)}\.jenkins\secrets\initialAdminPassword ->**

**Right click the file and open with notepad**

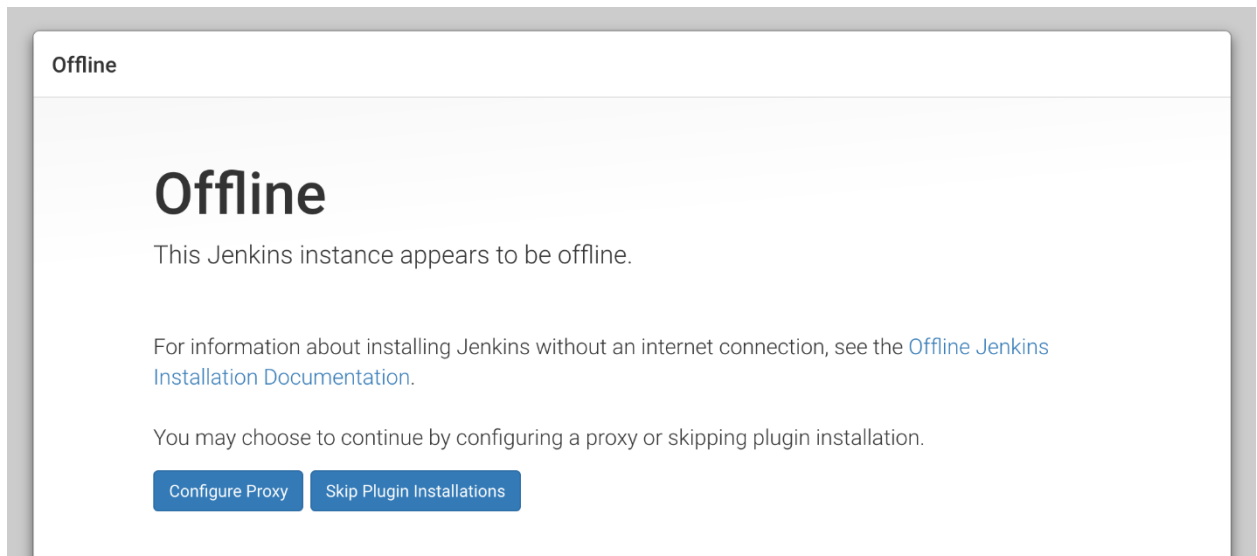
That's all.

Congratulations

Installation completed.

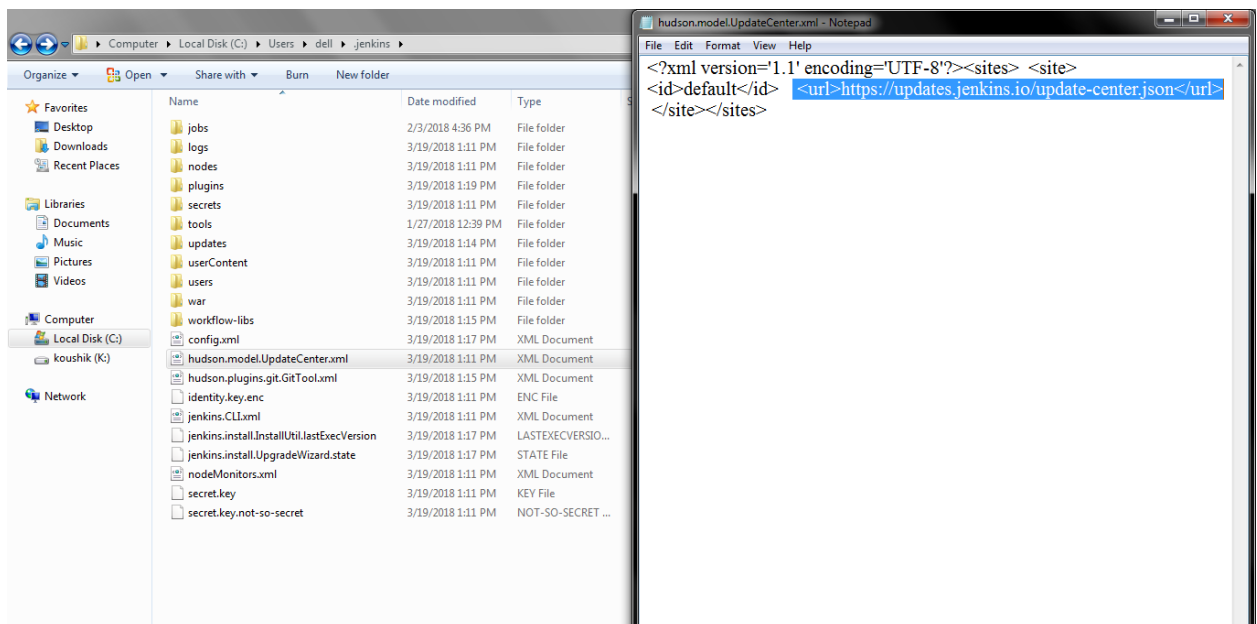
Thank you!

## 2) Common Issues



Solution:

1. Close Jenkins console (Close the cmd prompt)
2. Close Browser
3. Go to C drive -> Users -> your username -> .jenkins
4. In that folder right click on the file **hudson.model.UpdateCenter.xml** and open with notepad



Edit the URL to

<url><http://updates.jenkins.io/update-center.json></url> (*https to http*)

**Save the file and close. Start the installation again from step 3**

## 3) Password

---

If you run Jenkins second time it won't show password in the console.

To get the password, follow the instruction.

**Username:** admin

**Password:**

It can be found in the location `C:\Users\{user name}\.jenkins\secrets\initialAdminPassword` ->

Right click the file and open with notepad