

Install and configure git

In this page we will explain how to install and configure Git in our server

- Vagrant : Centos 7 OS, Jenkins.

step 1 : connect to the Jenkins server and install git

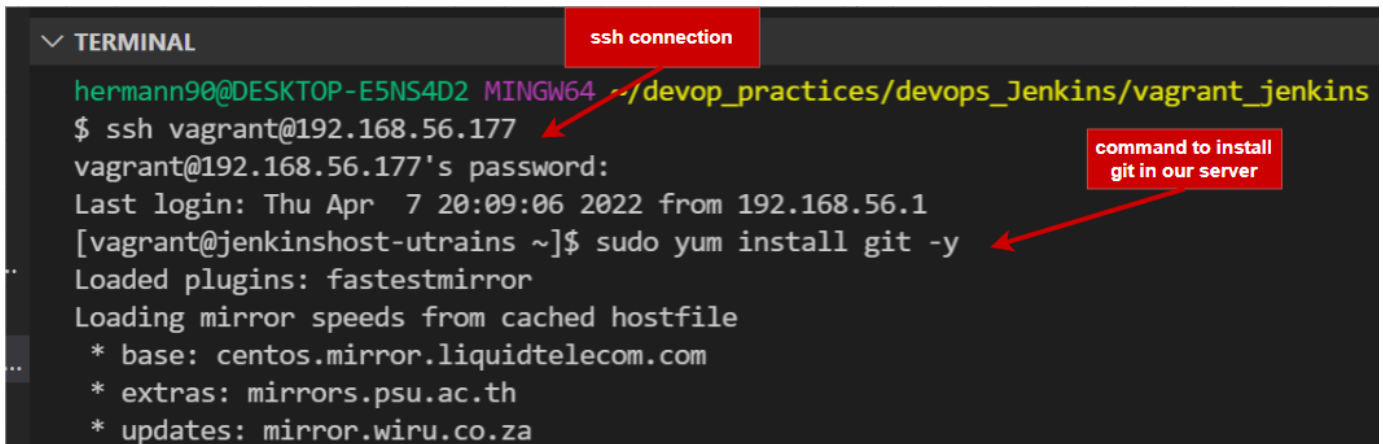
as a reminder, we have our jenkins server installed with vagrant which contains the following characteristics :

- IP Address : **192.168.56.17**
- user : **vagrant**
- password : **vagrant**

the process is as follows:

- 1- Open the terminal,
- 2- connect to the server with **ssh**
- 3- use the **yum** package manager to **install git**

```
ssh vagrant@192.168.56.177
sudo yum install git -y
```

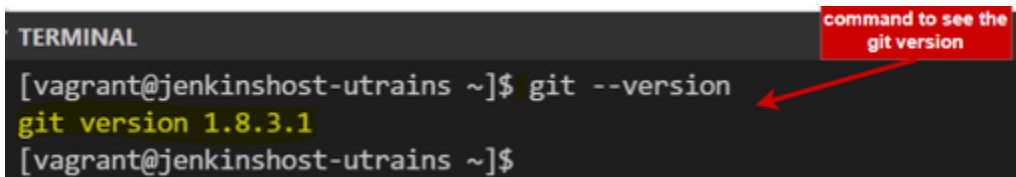


A terminal window titled 'TERMINAL' with a tab labeled 'ssh connection'. The prompt is 'hermann90@DESKTOP-E5NS4D2 MINGW64 ~/devop_practices/devops_Jenkins/vagrant_jenkins'. The user enters '\$ ssh vagrant@192.168.56.177'. The terminal shows the password prompt, login success, and the command '\$ sudo yum install git -y'. A red arrow points from a box labeled 'command to install git in our server' to this command. The terminal output shows the yum process, including loaded plugins, mirror speeds, and repository configuration.

```
hermann90@DESKTOP-E5NS4D2 MINGW64 ~/devop_practices/devops_Jenkins/vagrant_jenkins
$ ssh vagrant@192.168.56.177
vagrant@192.168.56.177's password:
Last login: Thu Apr  7 20:09:06 2022 from 192.168.56.1
[vagrant@jenkinshost-utrains ~]$ sudo yum install git -y
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: centos.mirror.liquidtelecom.com
 * extras: mirrors.psu.ac.th
 * updates: mirror.wiru.co.za
```

- after the installation, you can see the version using the **git -- version** command : something like this

```
git --version
```



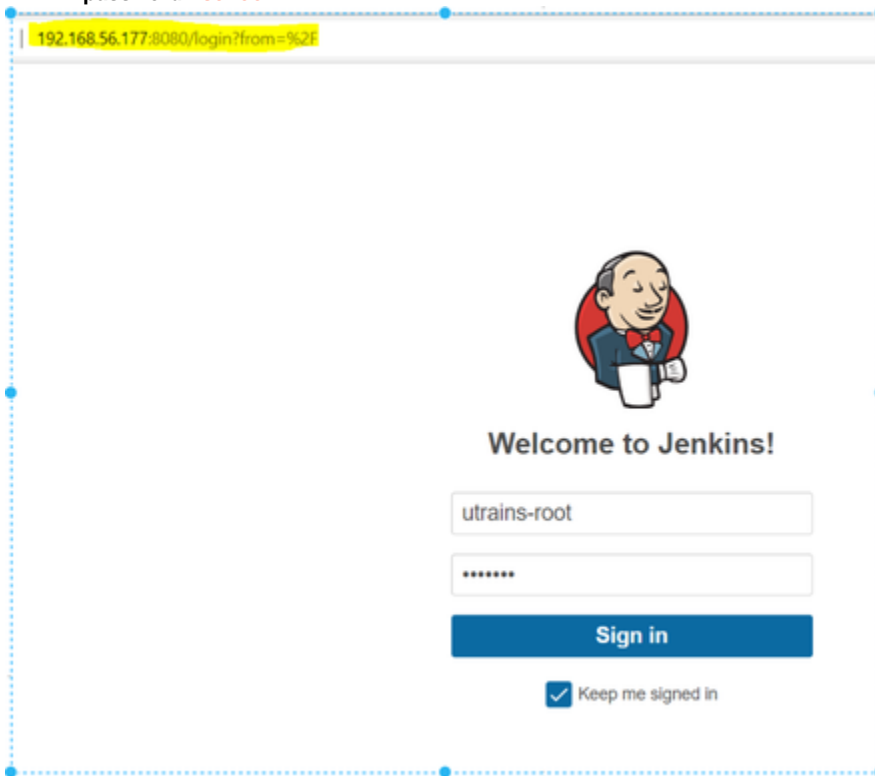
A terminal window titled 'TERMINAL' with a tab labeled 'command to see the git version'. The prompt is '[vagrant@jenkinshost-utrains ~]\$'. The user enters '\$ git --version'. The terminal output is 'git version 1.8.3.1'. A red arrow points from a box labeled 'command to see the git version' to this command.

```
TERMINAL
[vagrant@jenkinshost-utrains ~]$ git --version
git version 1.8.3.1
[vagrant@jenkinshost-utrains ~]$
```

Step 2 : configure Git in the Jenkins Web Interface

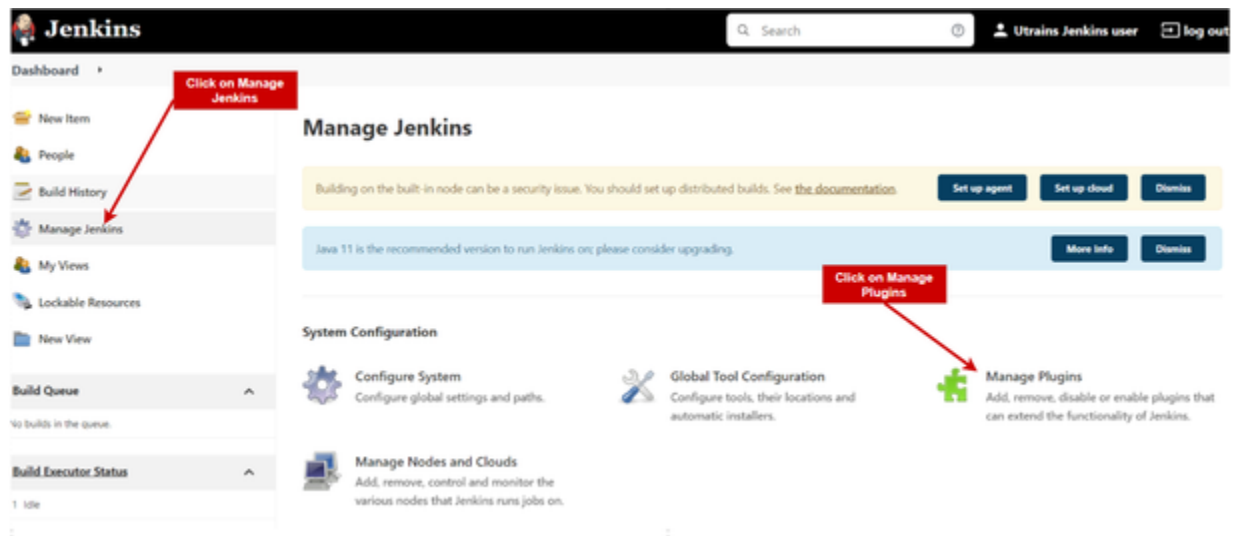
Here, we are going to configure our git installation on the web interface of Jenkins. We are going to connect on the web console.

- As a reminder, we just need to enter the **IP address** of our server followed by the port 8080 in the browser. **192.168.56.17:8080**
- **user : utraains-root**
- **password : school1**

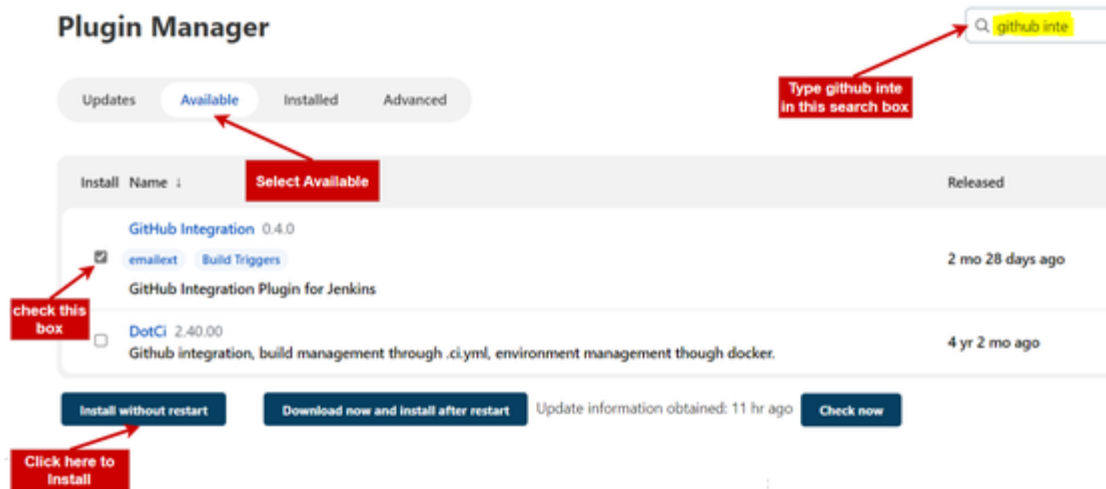


Once in the home page of Jenkins,

1- Click on **Manage Jenkins** then on **Manage plugins**



- Under the Available tab, search for GitHub integration using the filter
- Check the box for GitHub



- Now, click on **jenkins**
- Go to **Manage Jenkins**
- Click on **Global tool configuration**



Set up git on Jenkins console

- Under the **part for Git**
- Remove the Default name and put **Github**

Configure java path Jenkins console

- Under the **JDK part for java**
- **Uncheck the Install automatically box** Enter the **JDK name: JAVA_HOME**
- open the server in the terminal, copy the **JAVA_HOME** path variable, then paste like the value of JDK.

```
$ echo $JAVA_HOME
```

```
[vagrant@jenkinshost-utrains ~]$ echo $JAVA_HOME
/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.322.b06-1.e17_9.x86_64
[vagrant@jenkinshost-utrains ~]$
```

- In the **JAVA_HOME** attribute, put the path to the **JAVA_HOME** variable (use the **echo \$JAVA_HOME** in the terminal, **copy the path** and **paste it in Jenkins**)

JDK installations

Add JDK

JKS

Name

JDK_HOME

Path to JDK executable

java7\bin\java-1.8.0-openjdk-1.8.0.322-b07.3-x64_64

Install automatically

Cancel

JAVA_HOME config

Paste the JAVA_HOME Path Here

Install

Apply

Git installations

Add Git

Git

Name

Git

Path to Git executable

git

Install automatically

Cancel

Put Github Here

Click on Apply then, save

Install

Apply