# Jenkins LAB

#### JENKINS ENVIRONMENT SETUP -LINUX SERVER

After Jenkins Installation we have to set up our Jenkins environment to work efficiently.

#### Sudo permission for Jenkins user:

Once you installed Jenkins your Linux server have **jenkins** user created by default.

As all operations are going to performed by **jenkins** user we have to provide sudo permission for jenkins user.

# login jenkins server and give full permission to sudoers file.

\$ cd /etc

\$ chmod 777 sudoers

# Edit sudoers file and add the below line in the file for giving sudo permission for Jenkins user.

\$ vi sudoers

jenkins ALL=(ALL) NOPASSWD:ALL

:wq

# Once you edited don't forget to change the permission back (if you miss this step no user can able to login with sudo permission)

\$ chmod 440 sudoers

### Port number and security:

Jenkins default port number was 8080 . You can able to change the port number

\$ vi /etc/defaults/jenkins

Port < number you need>

:wa

Open the port 8080/ port number you changed in firewall/ security groups.

If you need to keep the Jenkins UI in private you can block the port number for public access.

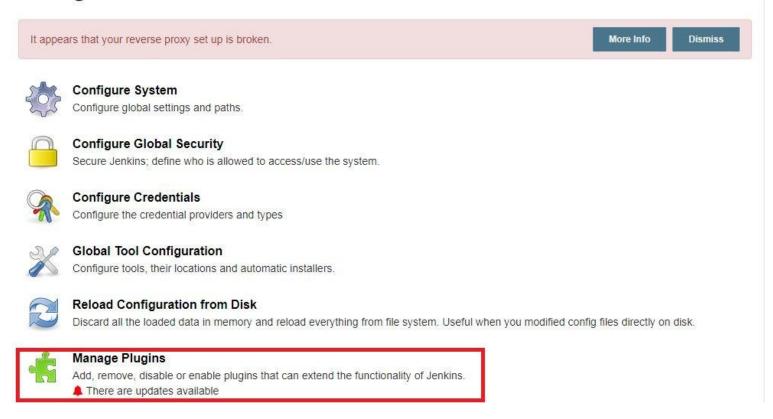
# **Plugins:**

In Jenkins we perform many activities using plugins like integrating Git we need git plugins and moving files to windows we need CIFS plugin.

You need to install the required plugins based on your requirement.

# To manage plugins Goto Manage Jenkins → Manage plugins

# Manage Jenkins

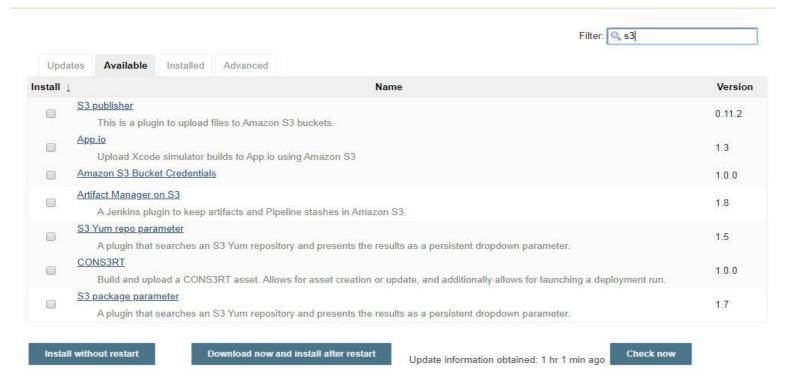


We will be redirected to the below wizard here you find tabs like Updates, Available, Installed and Advance.

**Updates**: You can update the version of current version of installed plugins.

Upda	ates Available Installed Advanced		
stall	Name ↓	Version	Installed
	bouncycastle API This plugin provides an stable API to Bouncy Castle related tasks.	2.18	2.17
	Gradle This plugin allows Jenkins to invoke Gradle build scripts directly.	1.36	1.35
	Jackson 2 API  This plugin exposes the Jackson 2 JSON APIs to other Jenkins plugins.	2.10.2	2.10.1
0	Pipeline: Basic Steps Commonly used steps for Pipelines.	2.19	2.18
	Pipeline: Build Step  Adds the Pipeline step build to trigger builds of other jobs.	2.11	2.10
	Pipeline: Step API  API for asynchronous build step primitive.	2.22	2.21
0	SSH Agent This plugin allows you to provide SSH credentials to builds via a ssh-agent in Jenkins	1.18	1.17

**Availble**: Its for installing new plugins. You can search with key name and get list of relevent plugins and click install without restart or install and restart.



**Installed**: It will show the installed plugins.

**Advance**: If you are in private network and you need to set proxy for internet connections you have to configure proxy settings here.

