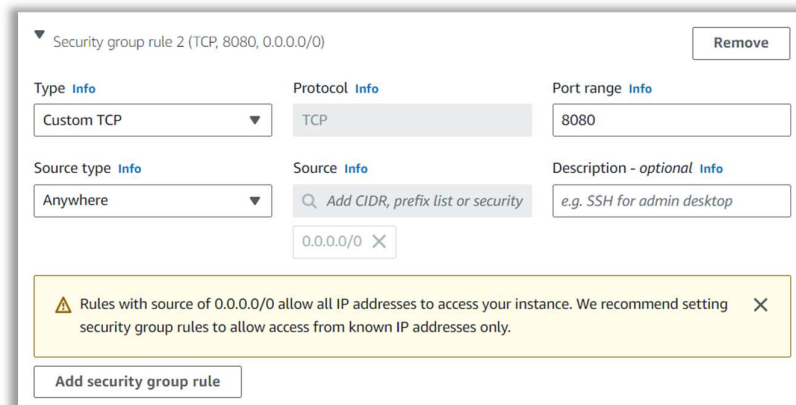# JENKINS CLASS -1

Jenkins is the CI/CD tool to make a word as sooner. It will automate the things to do recuring task and reduced our work. CI stands for Continuous integration and CD stands for Continuous Delivery/ Deployment.
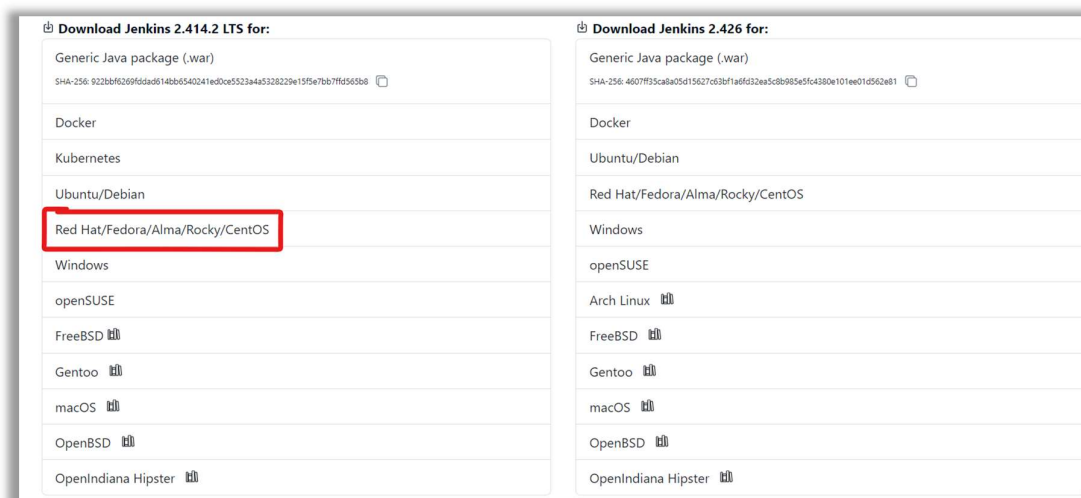
Steps to start Jenkins in EC2 Instance.

Create the EC2 instance with Custom TCP along with port 8080. Because 8080 is the default Jenkins port.

Go to the link : https://www.jenkins.io/download/ and select the Jenkins which type of Jenkins file do you want. There were two type of Jenkins versions there are LTS and standard version. You can go with LTS (Long Term Support).

Currently we have to install the Jenkins in aws EC2 instance. So, we can choose the **Red Hat/Fedora/Alma/Rocky/CentOS** because AWS EC2 instance based on Red Hat OS.

Two lines of commands are there. Just copy paste the two commands into the EC2 instance.

sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo

sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key

The first command is used to download the Jenkins file second one is to get the password. Now install the downloaded Jenkins by using below command.

amazon-linux-extras install java-openjdk11 -y (To install java 11. <mark>Because java 11 only can support the Jenkins without lack of dependencies)</mark>

yum install Jenkins -y (To install jenkins)
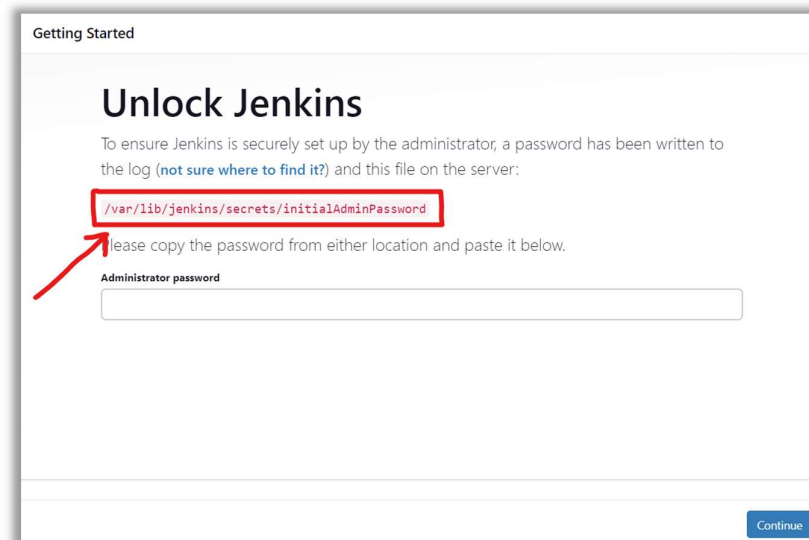
yum install git -y (To install git)

**systemctl start jenkins (To start the jenksins)**

systemctl status Jenkins (To check the Jenkins running status)

Open new browser tab seach on url **<public IP of the AWS instance>:8080**

you will get the page as below

Here enters the authentication password that where we download the Jenkins password which is second link in Jenkins page. Now go to the instance type path which is mentioned in the login page. Use cat command to view the authentication password. Then enter it over there and click Continue.
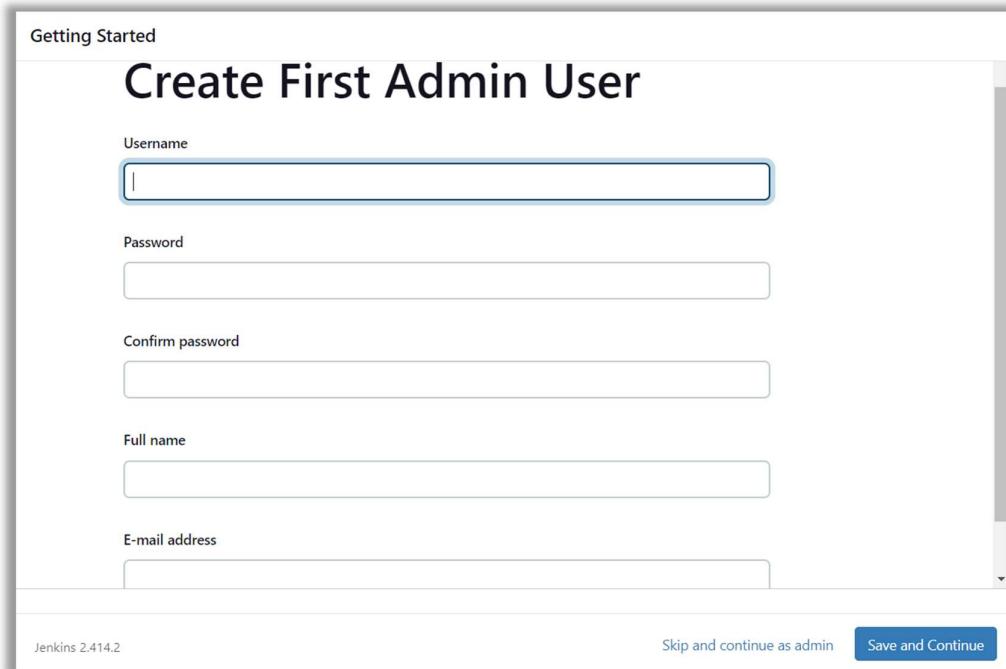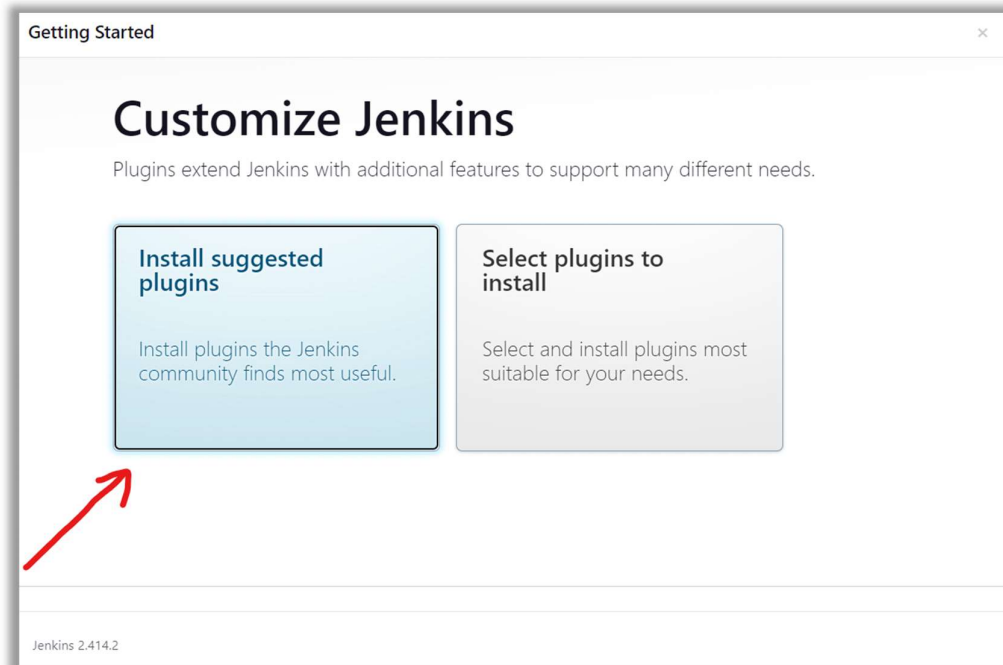
Select the Install suggested plugins. If you want to customize your plugins you can selected plugins to install. But recemented first option only.

It'll load the default plugins as shown below.
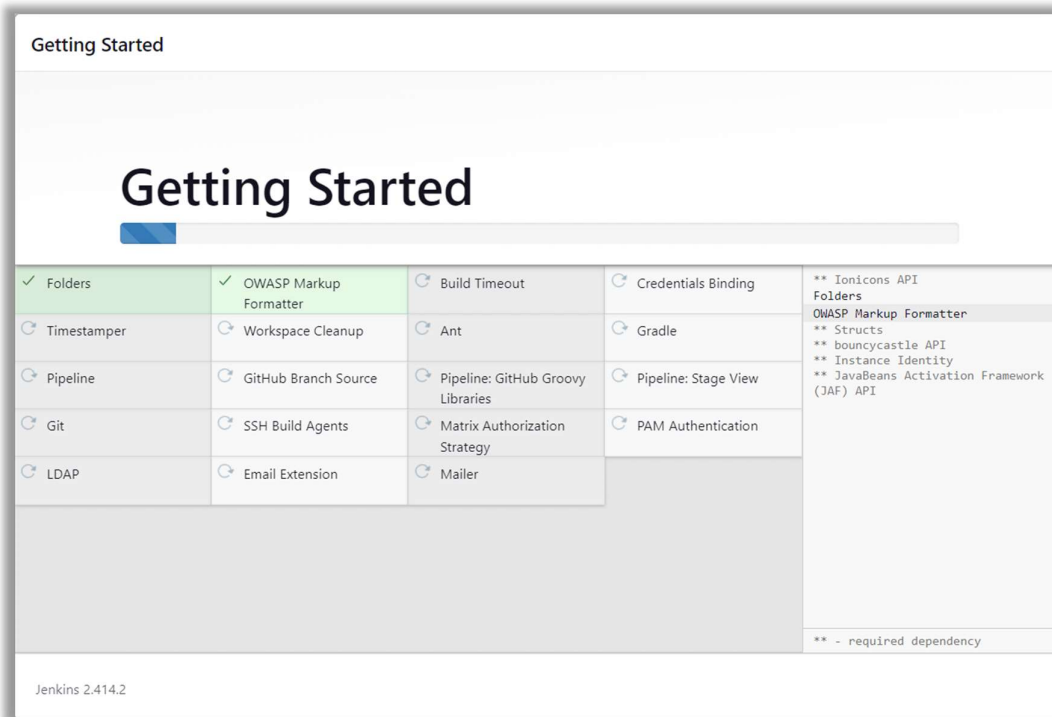
Initially you need to signup with Jenkins.

Getting Started

Create First Admin User
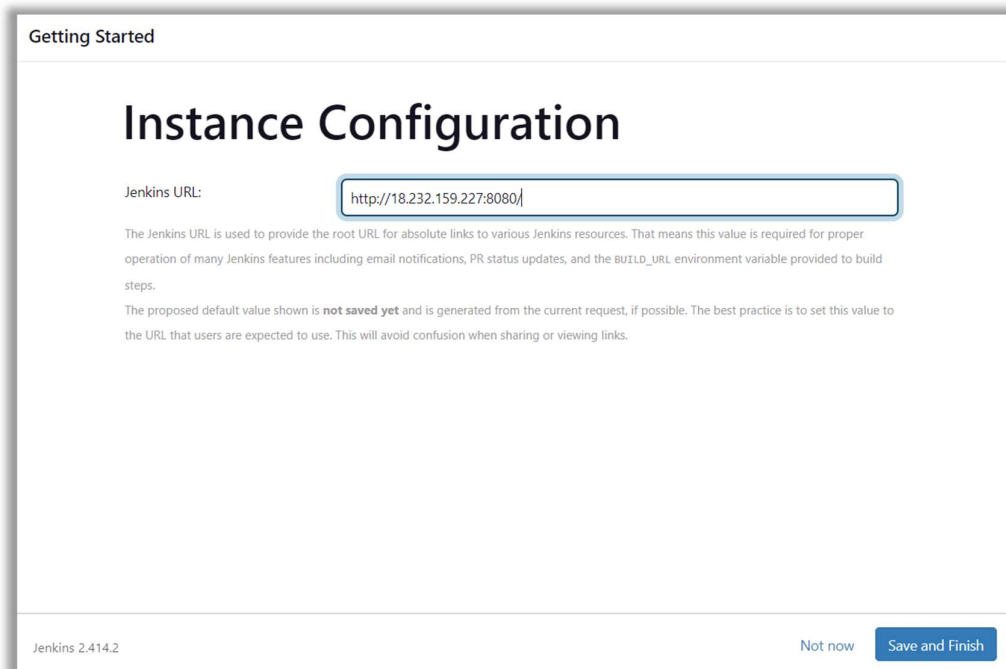
Username

Password

Confirm password

Full name

E-mail address

Jenkins 2.414.2   Skip and continue as admin   [Save and Continue]

Just click on save and continue to go with next step.

Getting Started

Instance Configuration

Jenkins URL: http://18.232.159.227:8080/

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.
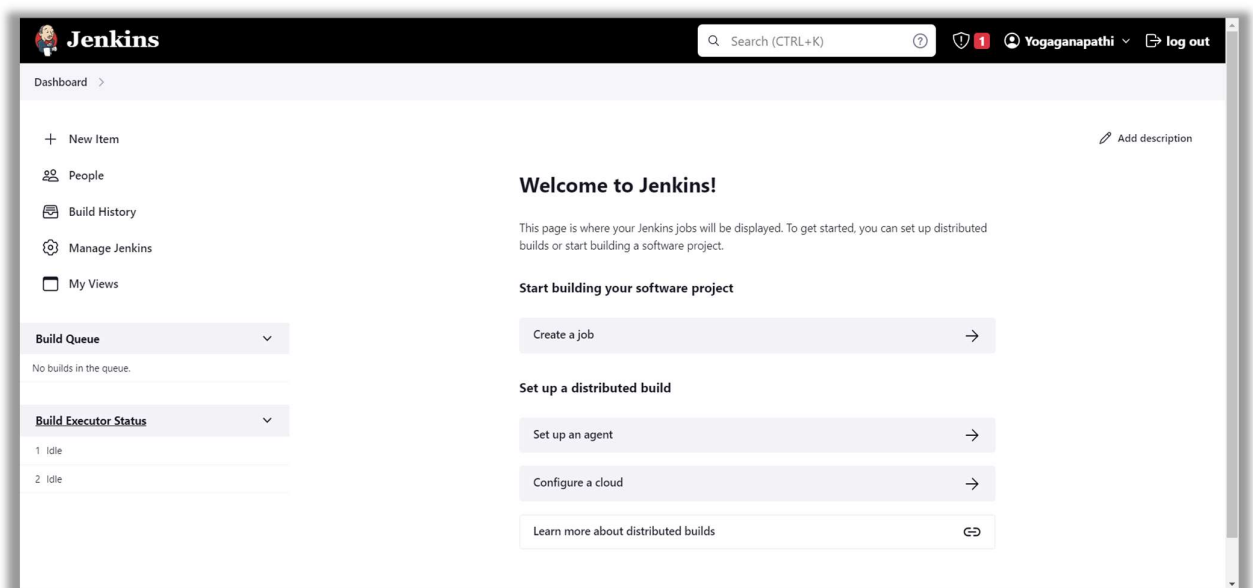
Jenkins 2.414.2   Not now   [Save and Finish]
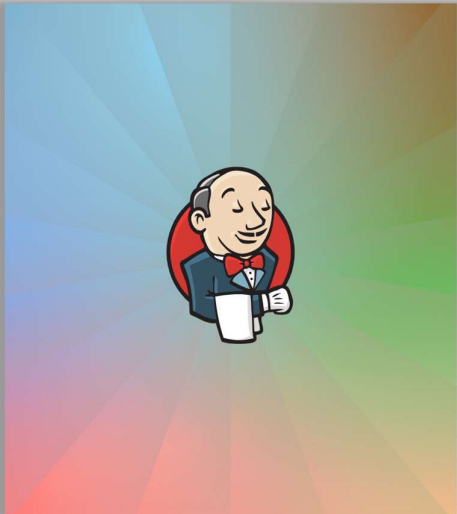
Now the Jenkins is ready to play....
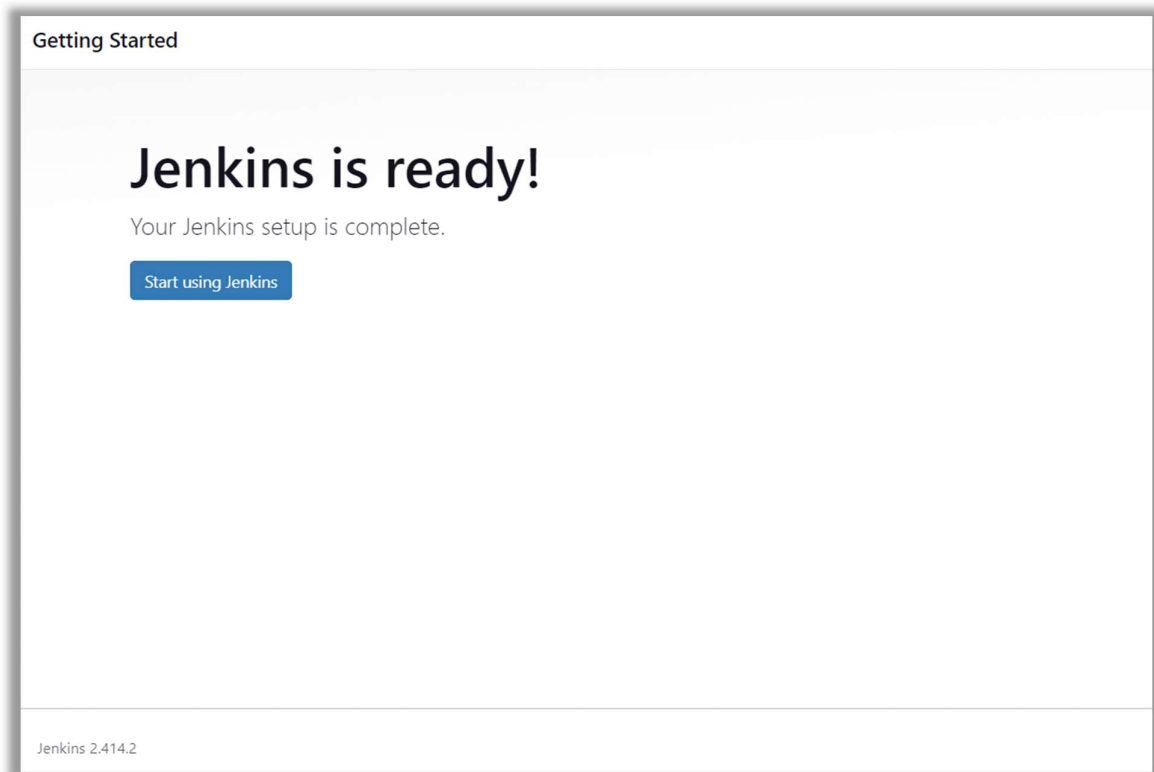
The Jenkins Dashboard looks like this.

Sometimes you'll get logged out due to session expiry. Then you can login via your credentials.