Getting Started With Jenkins ~By Neha Singh

Jenkins is a DevOps tool for Continous Integration and Delivery. It is written in Java with its plugins built for Integration purposes. It is Open Source and so available to all the developers they can collaborate easily.

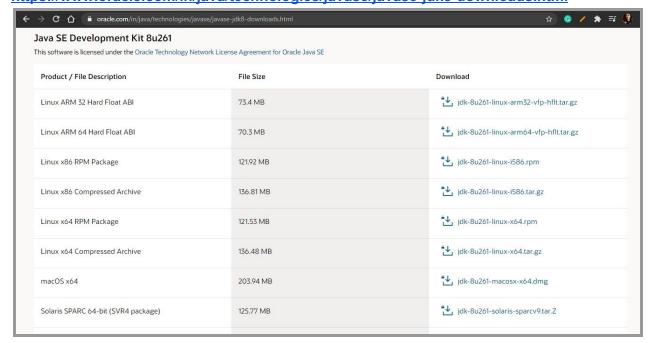
Features:

- Easy Configuration
- Easy Installation
- Available Plugins
- Extensible
- Easy Distribution
- Free Open Source

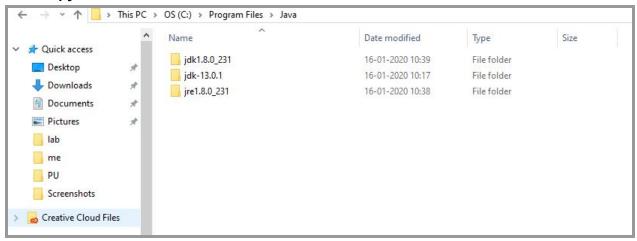
Let's get started by installing Jenkins. In this tutorial, I will be using Windows OS.

As Jenkins is written in Java, we need to install Java. Go to this link and install JDK for your system:

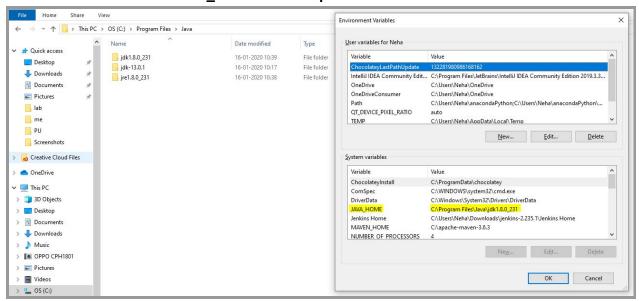
https://www.oracle.com/in/java/technologies/javase-jdk8-downloads.html



Let's copy the location of our JDK as we will need this to set environments variables.



We will add variable as JAVA_HOME and the provide location of the JDK folder.



We will check if java is available by typing the command: "java -version"

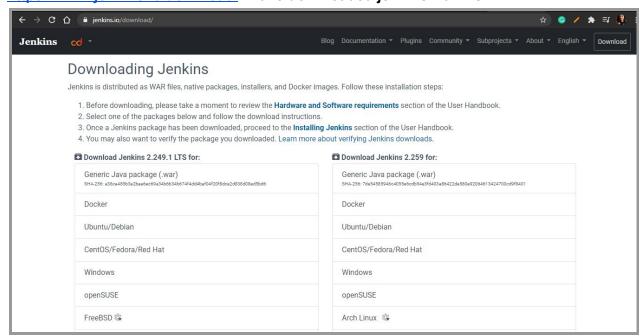
```
Microsoft Windows [Version 10.0.18362.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Neha>java -version
java version "1.8.0_231"
Java(TM) SE Runtime Environment (build 1.8.0_231-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.231-b11, mixed mode)

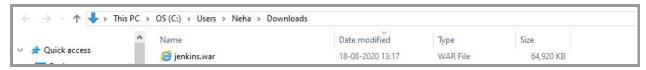
C:\Users\Neha>
```

Now, let's move and download Jenkins

https://www.jenkins.io/download/ I have downloaded jenkins.war file



Now, you can see that jenkins.war file has been downloaded.



Now, we will run Jenkins by command: "java -jar jenkins.war"

```
C:\Users\Neha\Documents\Downloads>cd C:\Users\Neha\Downloads

C:\Users\Neha\Downloads>java -jar jenkins.war

Running from: C:\Users\Neha\Downloads\jenkins.war

webroot: $user.home/.jenkins

2020-10-01 05:27:52.883+0000 [id=1] INFO org.eclipse.jetty.util.log.

2020-10-01 05:27:53.312+0000 [id=1] INFO winstone.Logger#logInternal

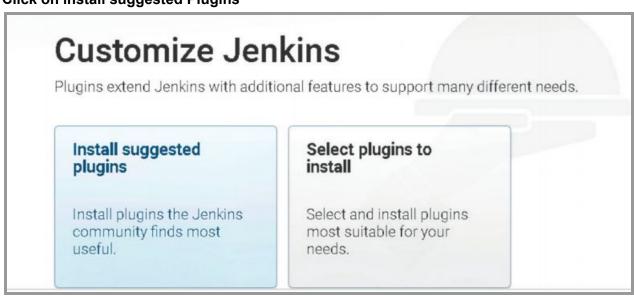
2020-10-01 05:27:53.510+0000 [id=1] WARNING o.e.j.s.handler.ContextHand

2020-10-01 05:27:53.694+0000 [id=1] INFO org.eclipse.jetty.server.Se
```

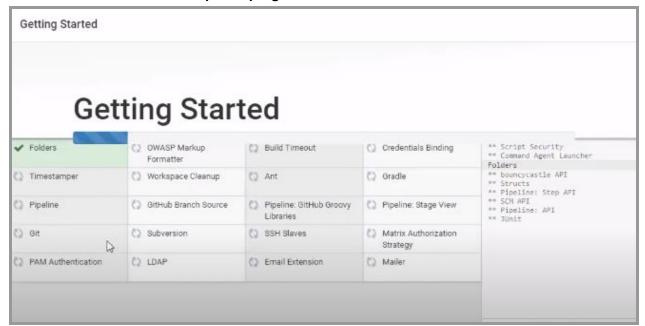
Move to your browser and type "localhost:8080". You will see a screen like this. Here, the password asked is available in the location provided in your local machine. Just go to that location and paste the password here.



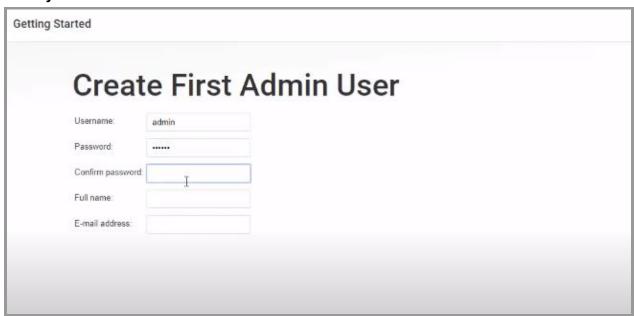
Click on install suggested Plugins



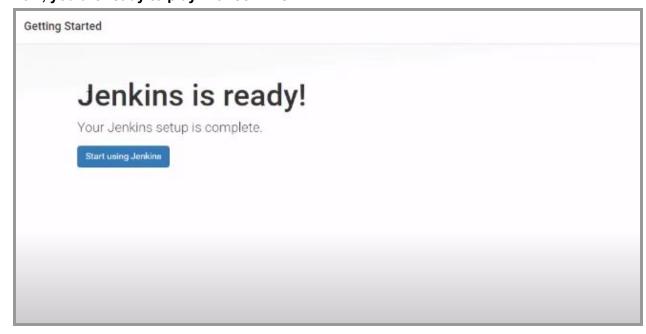
Jenkins will download all required plugins.



Reset your credentials.



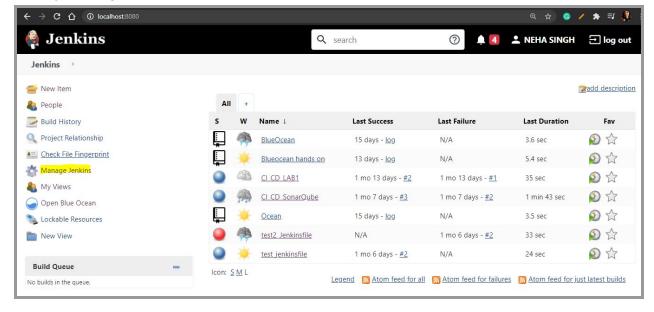
Now, you are ready to play with Jenkins.



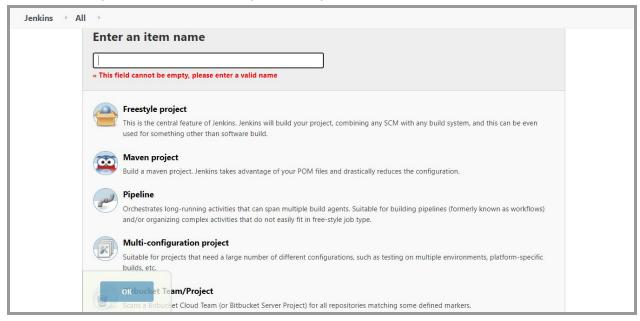
Enter Your credentials here to console.



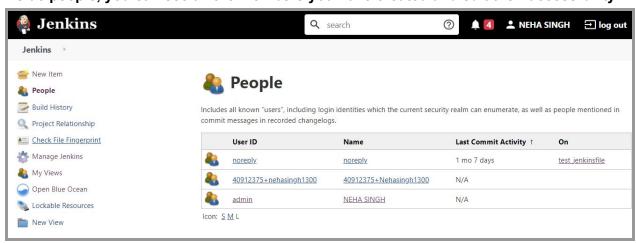
You will be having no projects for the first time. On the left side you can see various features of Jenkins, eg; New Item, People, Build History, Manage Jenkins, etc.



Let's have a walkthrough Jenkins and its features. In new items, you can see various type of projects can be made in Jenkins.



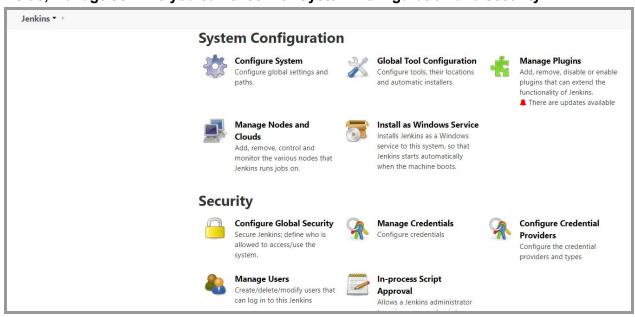
Inside people, you can see all the members you have created and edit their accessibility.



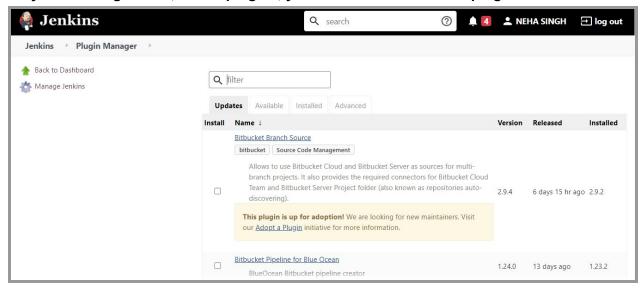
Inside Build History, you can check all the build done by you and their sta



Inside, Manage Jenkins you can check for System Configuration and security



In system configuration, inside plugins, you can check for various plugins



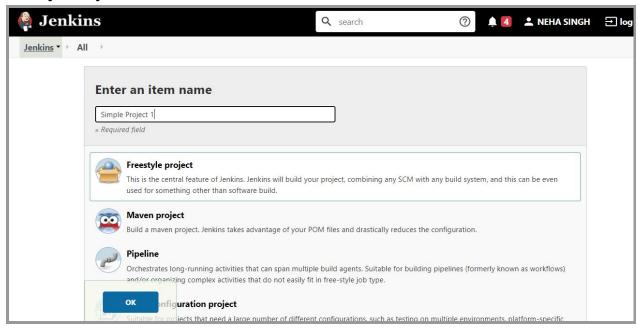
Status Information, Troubleshooting, and Tools and Actions.



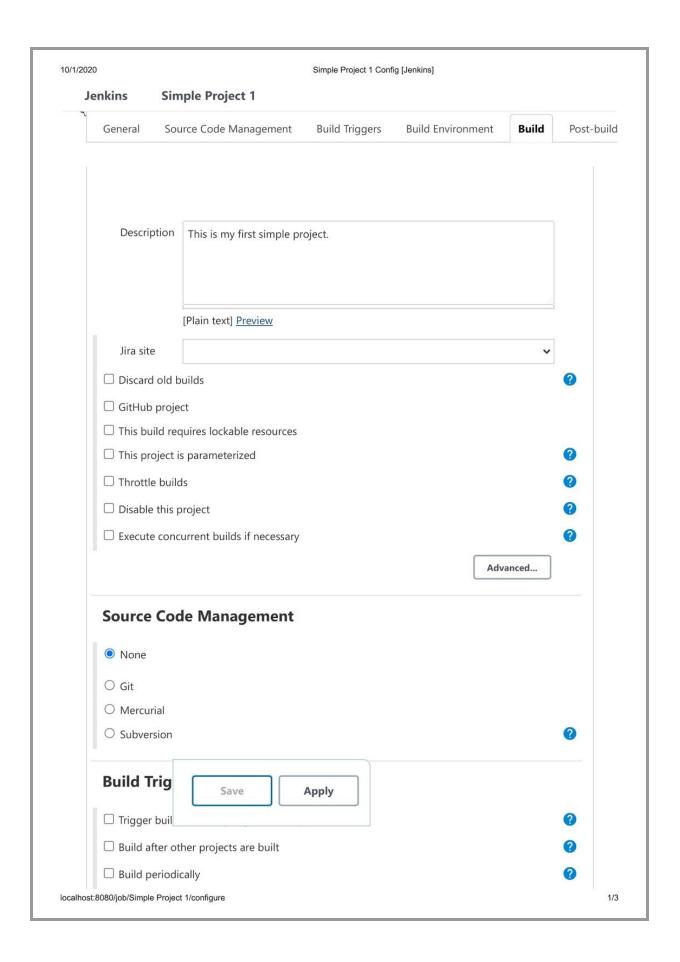
Simple Project

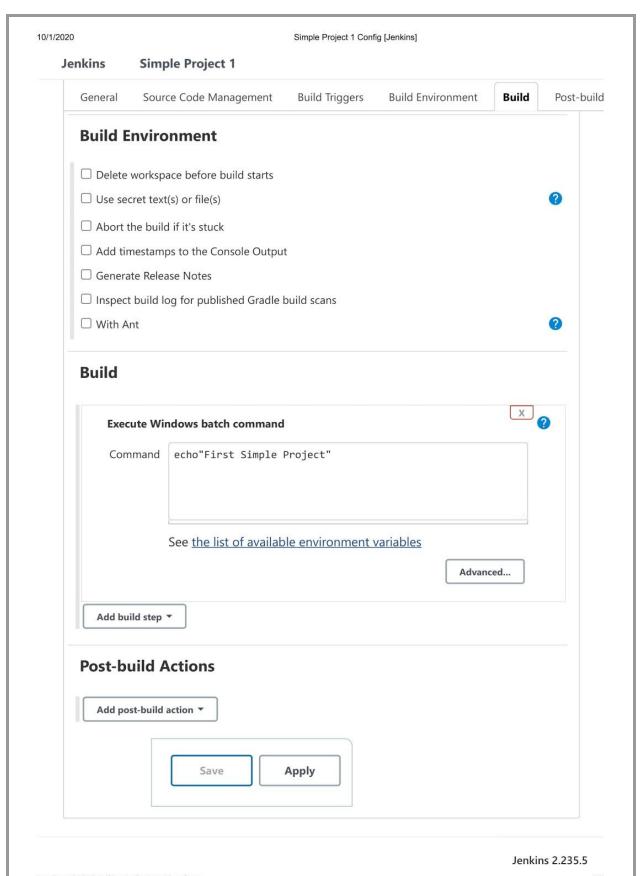
In this project, we will just make Jenkins open cmd and run an echo command with the message of Simple Project 1 and build it.

Click on New Item >> Name the project as "Simple Project 1" >> take the project as Freestyle Project.

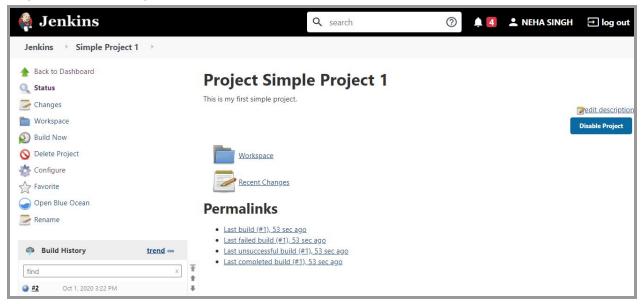


You can configure the project:





You can build the project by clicking the Build Now and then it will start building the project automatically.



You can see that project has built easily.



That's all! For this module. We will continue learning more cool features of Jenkins in next module.