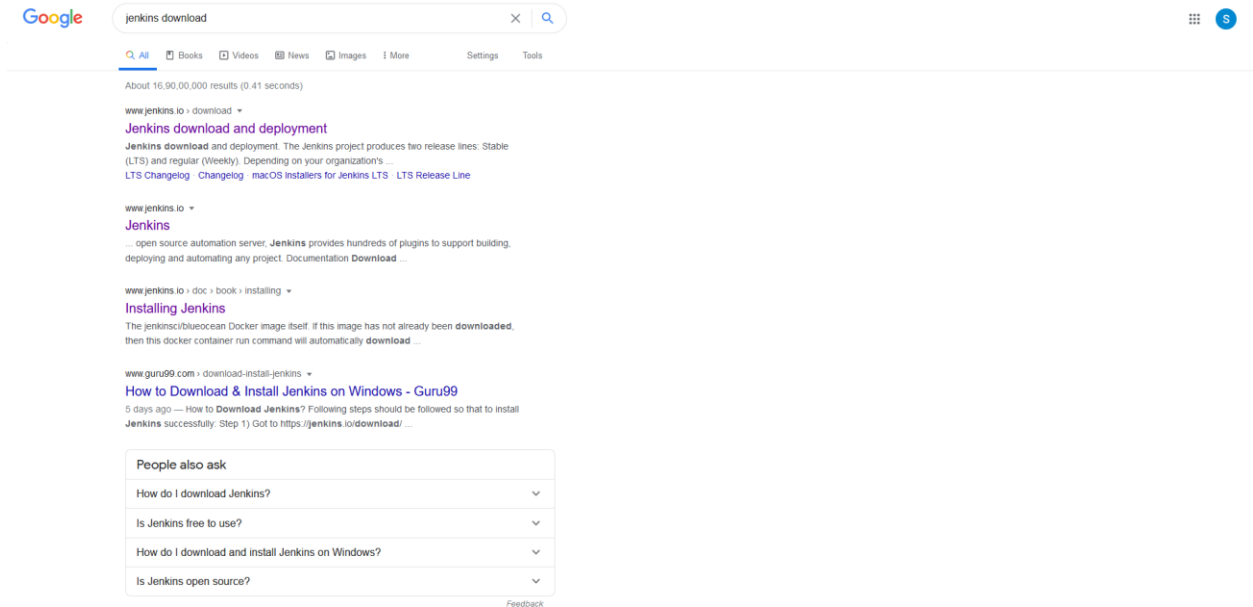


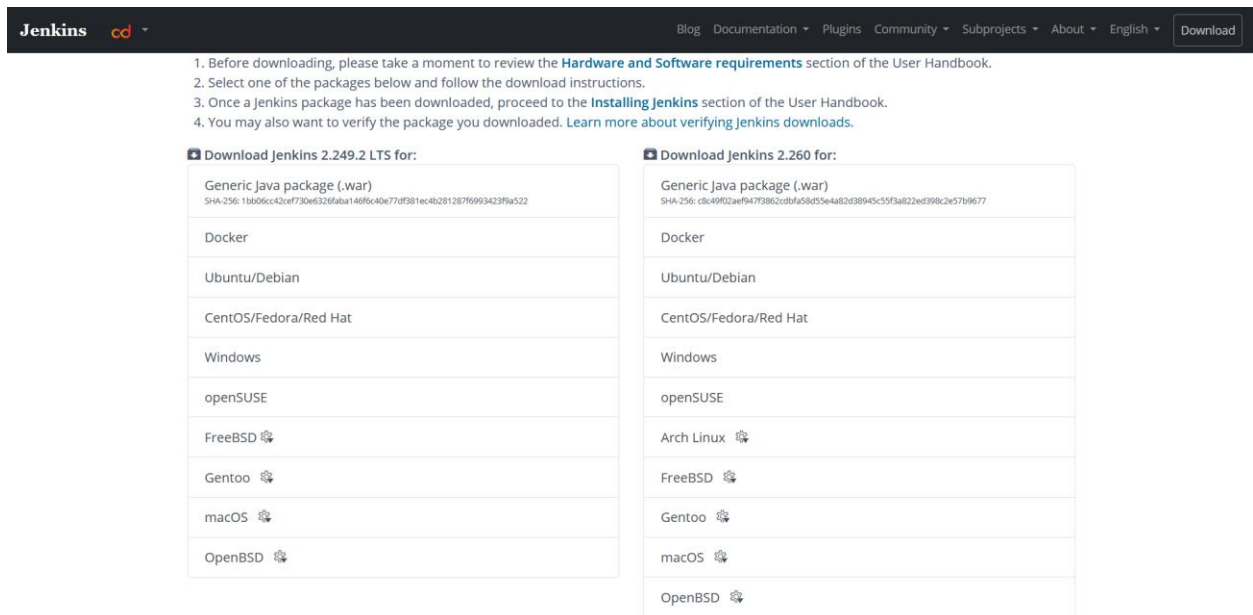
## LAB1

- Search `Download Jenkins` on Google



Google search results for "jenkins download". The search bar shows "jenkins download" with a search icon. Below the search bar, it says "About 16,90,00,000 results (0.41 seconds)". The first result is from "www.jenkins.io" with the title "Jenkins download and deployment". The snippet says: "Jenkins download and deployment. The Jenkins project produces two release lines: Stable (LTS) and regular (Weekly). Depending on your organization's ...". Below this is another result from "www.jenkins.io" with the title "Jenkins". The snippet says: "... open source automation server, Jenkins provides hundreds of plugins to support building, deploying and automating any project. Documentation Download ...". Below this is a result from "www.guru99.com" with the title "How to Download & Install Jenkins on Windows - Guru99". The snippet says: "5 days ago — How to Download Jenkins? Following steps should be followed so that to install Jenkins successfully: Step 1) Got to https://jenkins.io/download/ ...". At the bottom, there is a "People also ask" section with four questions: "How do I download Jenkins?", "Is Jenkins free to use?", "How do I download and install Jenkins on Windows?", and "Is Jenkins open source?".

- It will redirect to <https://www.jenkins.io/download/>
- Download the binaries for Jenkins for Windows



Jenkins download page. The header shows the Jenkins logo and navigation links: Blog, Documentation, Plugins, Community, Subprojects, About, English, and a Download button. Below the header, there are four numbered instructions: 1. Before downloading, please take a moment to review the **Hardware and Software requirements** section of the User Handbook. 2. Select one of the packages below and follow the download instructions. 3. Once a Jenkins package has been downloaded, proceed to the **Installing Jenkins** section of the User Handbook. 4. You may also want to verify the package you downloaded. [Learn more about verifying Jenkins downloads.](#)

Download Jenkins 2.249.2 LTS for:

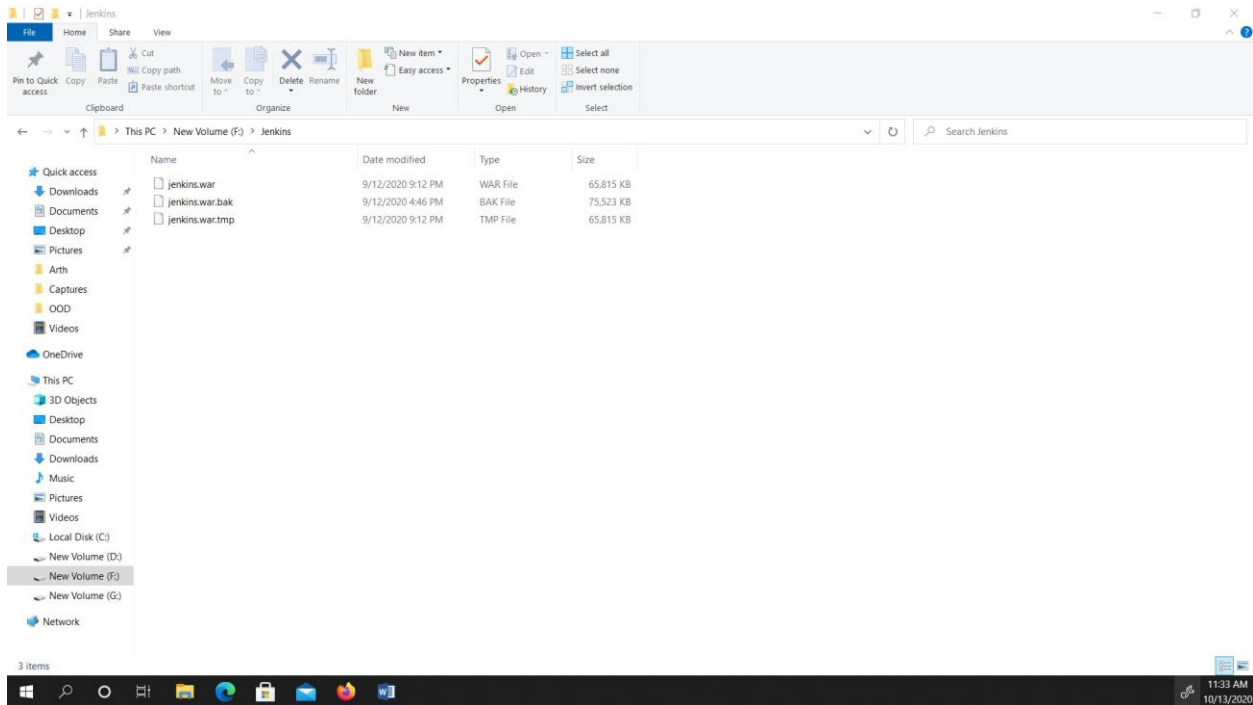
|  |
|--|
| Generic java package (.war)<br>SHA-256: 1bb06cc42cef730e6326faba146f6c40e77df381ec4b28128769934239a522 |
| Docker   |
| Ubuntu/Debian  |
| CentOS/Fedora/Red Hat  |
| Windows  |
| openSUSE   |
| FreeBSD  |
| Gentoo   |
| macOS  |
| OpenBSD  |

Download Jenkins 2.260 for:

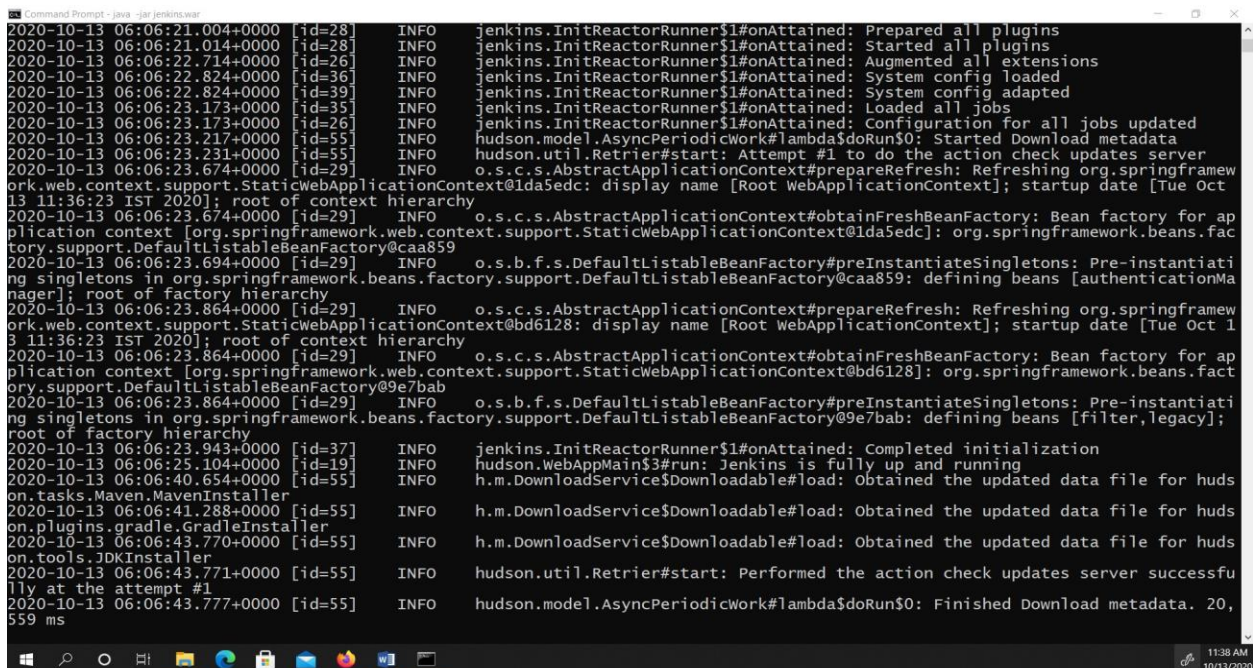
|  |
|--|
| Generic java package (.war)<br>SHA-256: c8c49f52ae9f94733862c0bf058d55e4a82d38945c593a822ed398c2e57b9677 |
| Docker   |
| Ubuntu/Debian  |
| CentOS/Fedora/Red Hat  |
| Windows  |
| openSUSE   |
| Arch Linux   |
| FreeBSD  |
| Gentoo   |
| macOS  |
| OpenBSD  |

## LAB1

- Download and unzip the file where you will see `jenkins.war`
- Use this file to run Jenkins.



- Open the command prompt.
- Open the folder which contain jenkins.war file
- Type the command : `java -jar jenkins.war`

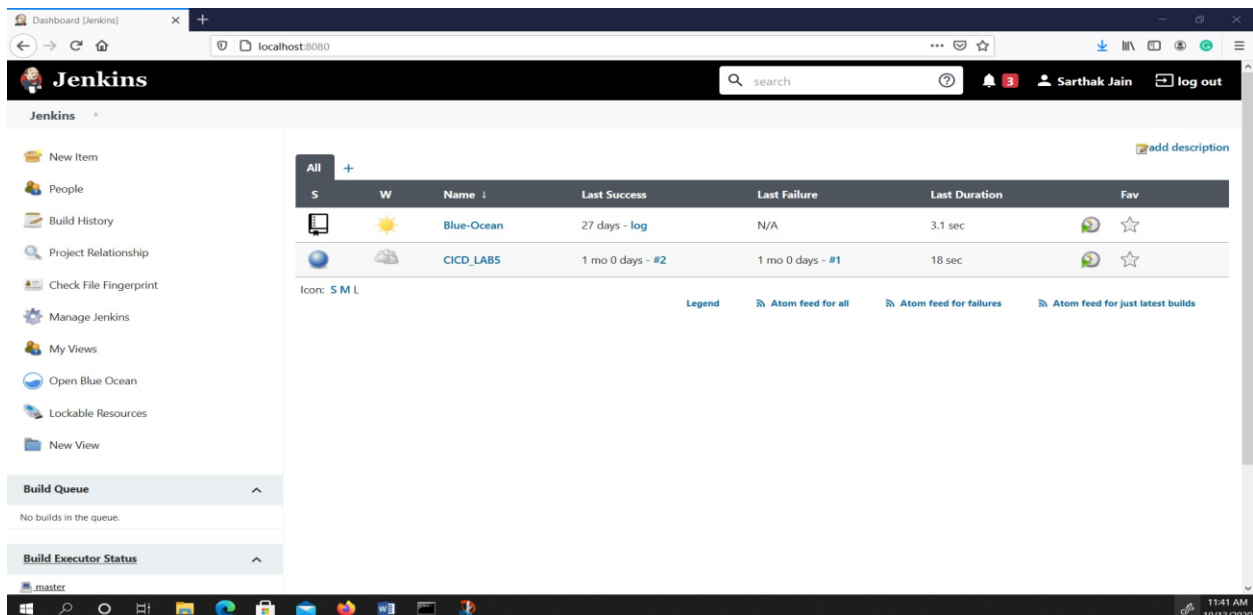


## LAB1

- Open the web browser.
- Go to localhost:8080 “8080 is the default port for Jenkins to run”
- You would be prompted to input the administrator’s password and create a new user.
- Log in into the Jenkins dashboard

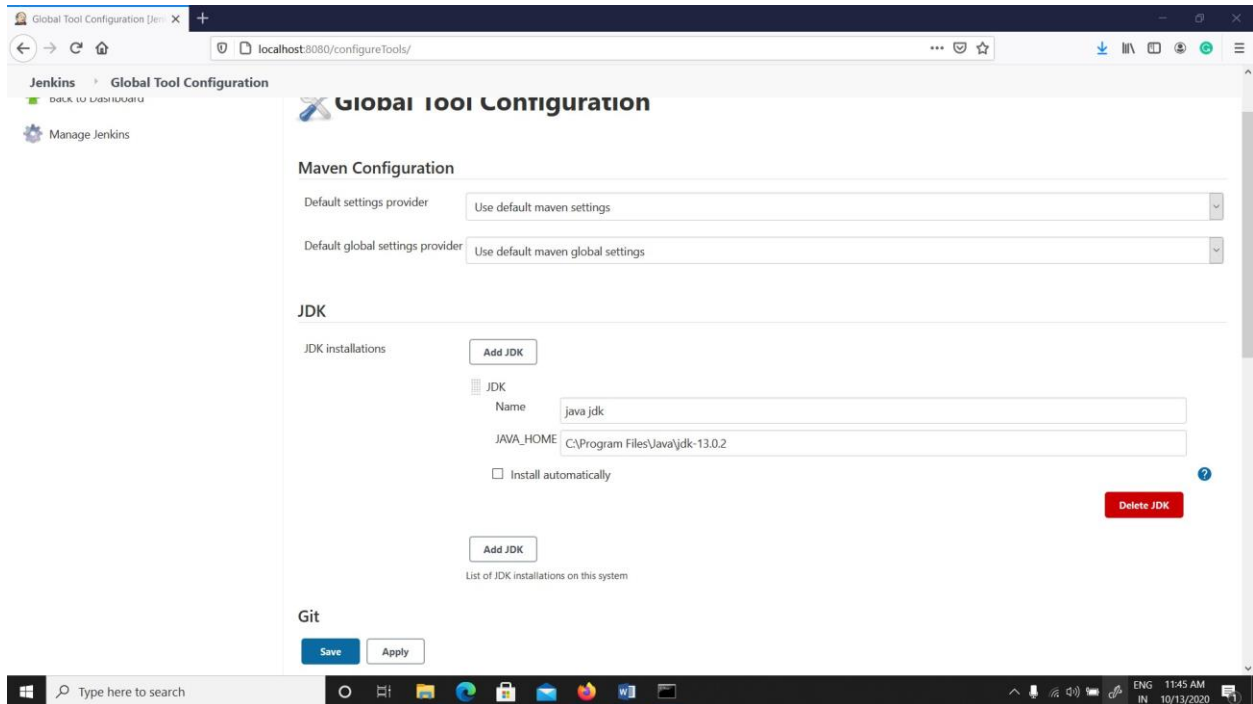
```
Command Prompt - java -jar jenkins.war
2020-10-13 06:06:21.004+0000 [id=28] INFO jenkins.InitReactorRunner$1#onAttained: Prepared all plugins
2020-10-13 06:06:21.014+0000 [id=28] INFO jenkins.InitReactorRunner$1#onAttained: Started all plugins
2020-10-13 06:06:22.714+0000 [id=26] INFO jenkins.InitReactorRunner$1#onAttained: Augmented all extensions
2020-10-13 06:06:22.824+0000 [id=36] INFO jenkins.InitReactorRunner$1#onAttained: System config loaded
2020-10-13 06:06:22.824+0000 [id=39] INFO jenkins.InitReactorRunner$1#onAttained: System config adapted
2020-10-13 06:06:23.173+0000 [id=35] INFO jenkins.InitReactorRunner$1#onAttained: Loaded all jobs
2020-10-13 06:06:23.173+0000 [id=26] INFO jenkins.InitReactorRunner$1#onAttained: Configuration for all jobs updated
2020-10-13 06:06:23.217+0000 [id=55] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Started Download metadata
2020-10-13 06:06:23.231+0000 [id=55] INFO hudson.util.Retrier#start: Attempt #1 to do the action check updates server
2020-10-13 06:06:23.674+0000 [id=29] INFO o.s.c.s.AbstractApplicationContext#prepareRefresh: Refreshing org.springframework
ork.web.context.support.StaticWebApplicationContext@1da5edc: display name [Root WebApplicationContext]; startup date [Tue Oct 13 11:36:23 IST 2020]; root of context hierarchy
2020-10-13 06:06:23.674+0000 [id=29] INFO o.s.c.s.AbstractApplicationContext#obtainFreshBeanFactory: Bean factory for ap
plication context [org.springframework.web.context.support.StaticWebApplicationContext@1da5edc]: org.springframework.beans.fac
tory.support.DefaultListableBeanFactory@caa859
2020-10-13 06:06:23.694+0000 [id=29] INFO o.s.b.f.s.DefaultListableBeanFactory#preInstantiateSingletons: Pre-instantiati
ng singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@caa859: defining beans [authenticationMa
nager]; root of factory hierarchy
2020-10-13 06:06:23.864+0000 [id=29] INFO o.s.c.s.AbstractApplicationContext#prepareRefresh: Refreshing org.springframework
ork.web.context.support.StaticWebApplicationContext@bd6128: display name [Root WebApplicationContext]; startup date [Tue Oct 13 11:36:23 IST 2020]; root of context hierarchy
2020-10-13 06:06:23.864+0000 [id=29] INFO o.s.c.s.AbstractApplicationContext#obtainFreshBeanFactory: Bean factory for ap
plication context [org.springframework.web.context.support.StaticWebApplicationContext@bd6128]: org.springframework.beans.fac
tory.support.DefaultListableBeanFactory@9e7bab
2020-10-13 06:06:23.864+0000 [id=29] INFO o.s.b.f.s.DefaultListableBeanFactory#preInstantiateSingletons: Pre-instantiati
ng singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@9e7bab: defining beans [filter,legacy];
root of factory hierarchy
2020-10-13 06:06:23.943+0000 [id=37] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
2020-10-13 06:06:25.104+0000 [id=19] INFO hudson.WebAppMain$3#run: Jenkins is fully up and running
2020-10-13 06:06:40.654+0000 [id=55] INFO h.m.DownloadService$Downloadable#load: Obtained the updated data file for huds
on.tasks.Maven.MavenInstaller
2020-10-13 06:06:41.288+0000 [id=55] INFO h.m.DownloadService$Downloadable#load: Obtained the updated data file for huds
on.plugins.gradle.GradleInstaller
2020-10-13 06:06:43.770+0000 [id=55] INFO h.m.DownloadService$Downloadable#load: Obtained the updated data file for huds
on.tools.JDKInstaller
2020-10-13 06:06:43.771+0000 [id=55] INFO hudson.util.Retrier#start: Performed the action check updates server successfu
lly at the attempt #1
2020-10-13 06:06:43.777+0000 [id=55] INFO hudson.model.AsyncPeriodicWork#lambda$doRun$0: Finished Download metadata. 20,
559 ms
```

- This is how the Jenkins Dashboard looks:

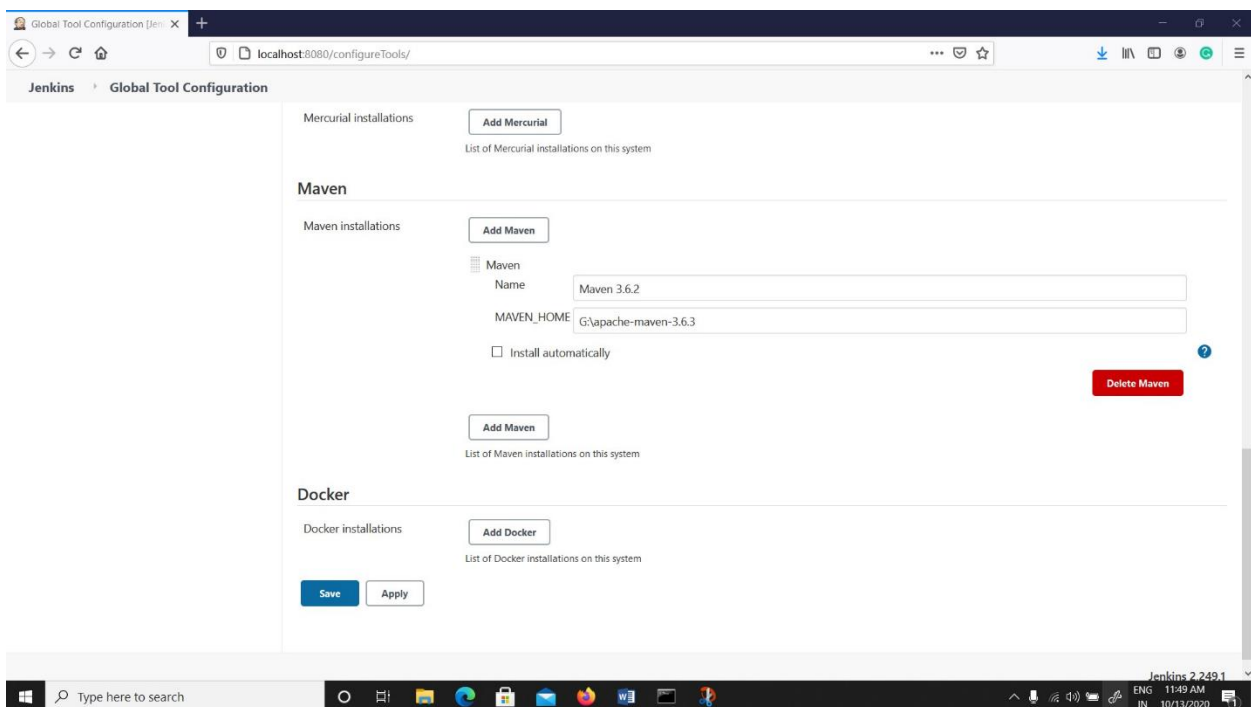


## LAB1

- You will have to add the JDK installations and Maven installations to maven.
- Go to manage Jenkins option
- Go to global tool configuration
- In the Java JDK section name the JDK and add the location of JAVA\_HOME



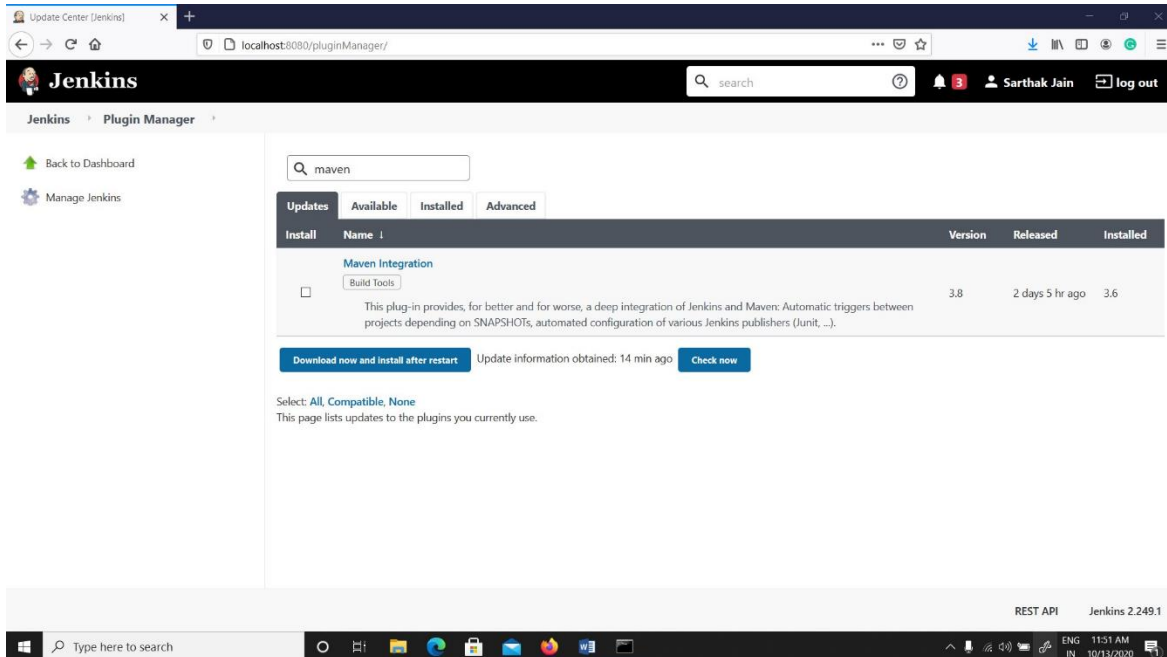
- In the Maven Section
- Add maven name and MAVEN\_HOME location
- Save and apply the changes



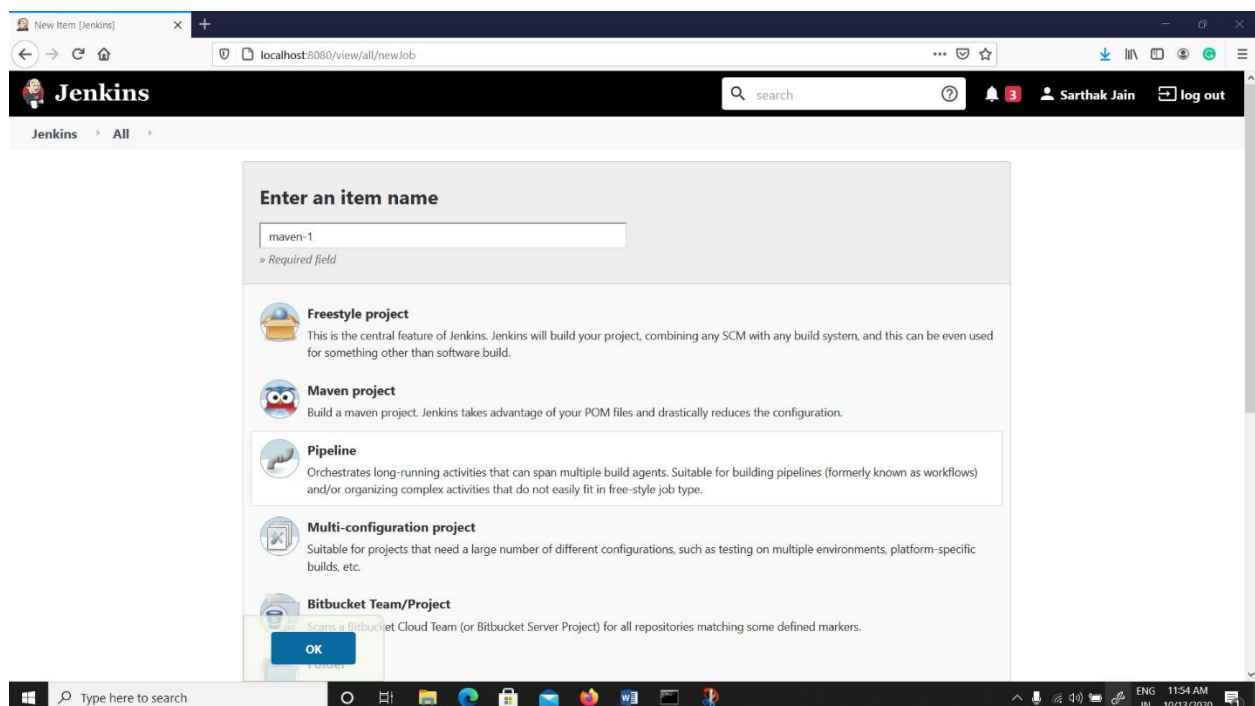


## LAB1

- Go to Manage Jenkins
- Select the manage plugins option
- Search maven plugin in the available plugins. Install the plugin

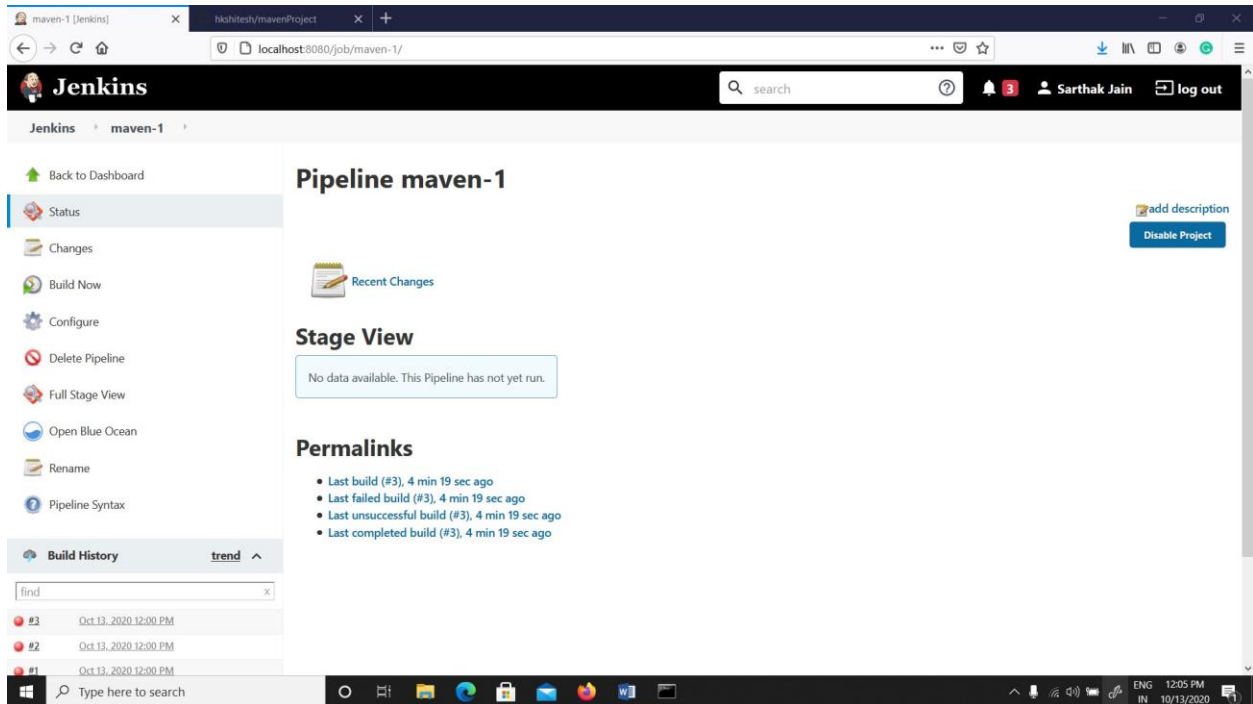


- In the Jenkins dashboard, select new items option
- Select a name for your pipeline and check the maven project option.
- Click ok
- Specify a maven project to Jenkins



## LAB1

- Specify the location of pom.xml location.
- Specify the project directory
- And apply the changes.
- The created pipeline should look similar to one shown below:



- Click on Build now and check the console output for the project

