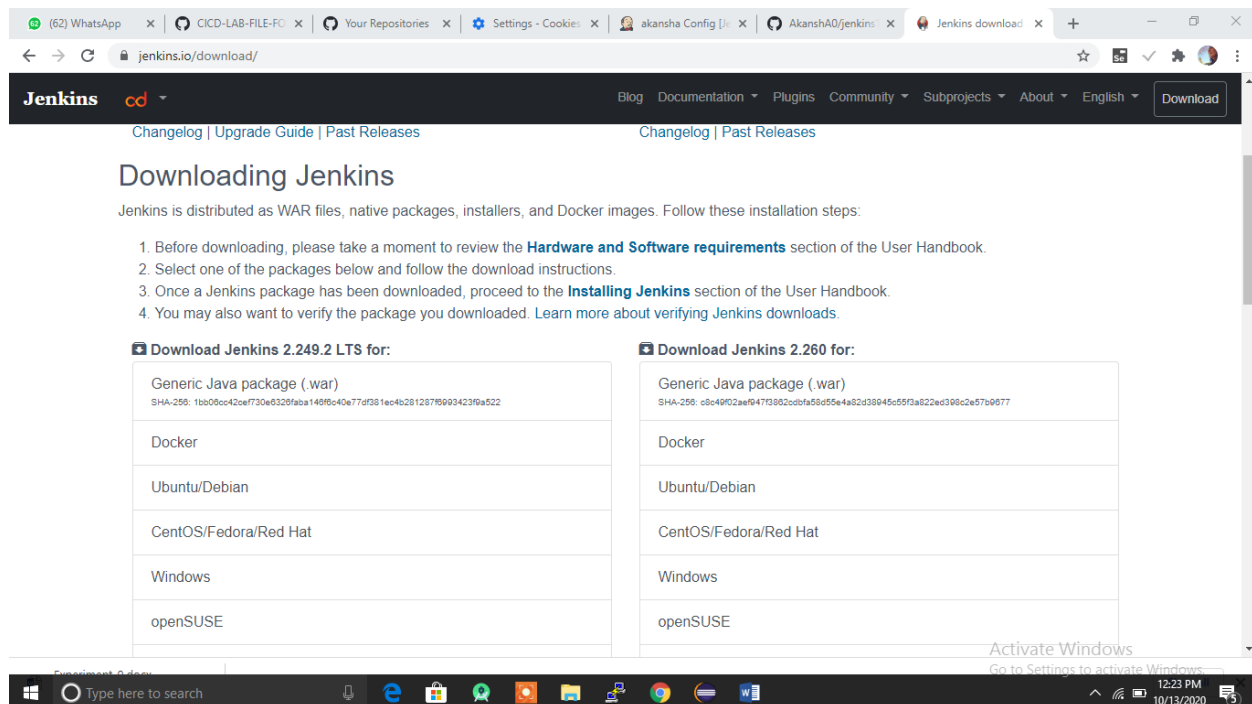
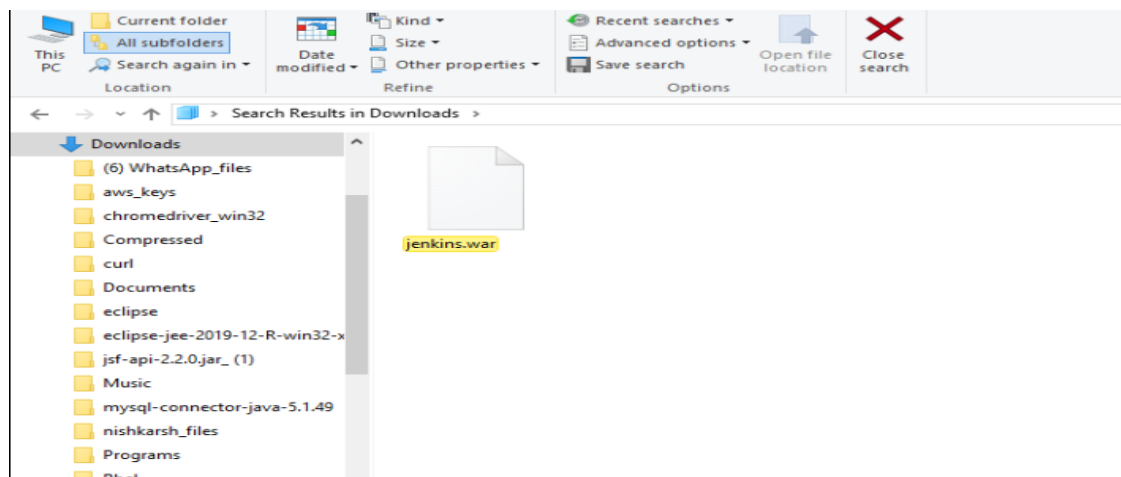


# Experiment- 1

**Step-1** Installation of Jenkins war file from this site.



Jenkins is downloaded:-

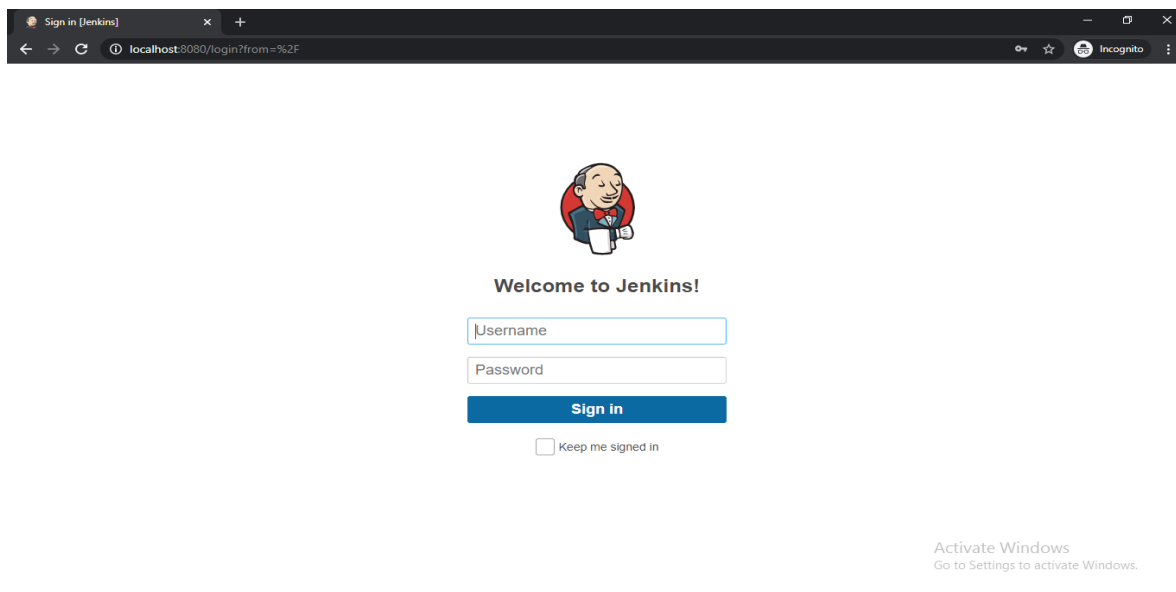


**Step-2** Now we will start our Jenkins from command prompt, by default port of Jenkins is 8080. We can change it also during this command:- `java -jar Jenkins.war --httpport=9300`

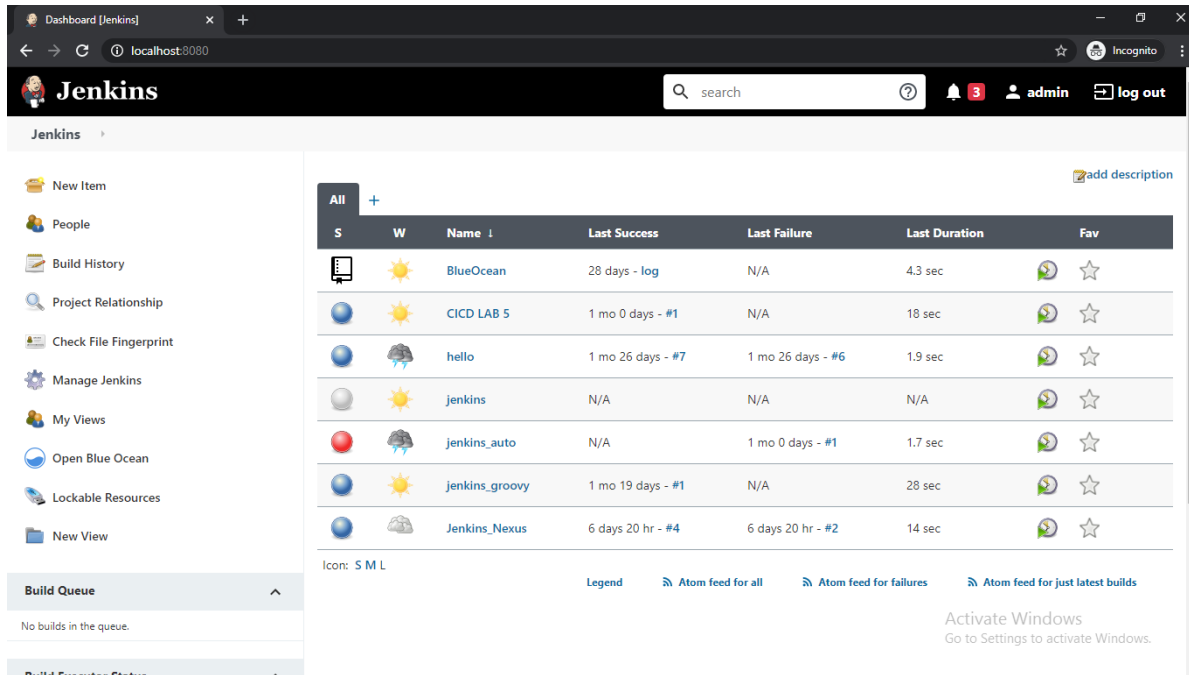
```
CH: Command Prompt - java -jar jenkins.war

C:\Users\HP\Downloads>java -jar jenkins.war
Running from: C:\Users\HP\Downloads\jenkins.war
webroot: $user.home/.jenkins
2020-10-13 07:05:52.540+0000 [id=1] INFO org.eclipse.jetty.util.log.Log#initia
2020-10-13 07:05:52.689+0000 [id=1] INFO winstone.Logger#logInternal: Beginnin
2020-10-13 07:05:52.739+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setCon
2020-10-13 07:05:52.849+0000 [id=1] INFO org.eclipse.jetty.server.Server#doSta
2b7bb13ef5a92a927634b0d; jvm 11.0.8+10-LTS
2020-10-13 07:05:53.839+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#v
et
2020-10-13 07:05:53.951+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doS
2020-10-13 07:05:53.955+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doS
2020-10-13 07:05:53.963+0000 [id=1] INFO o.e.j.server.session.HouseKeeper#star
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file
til.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstrea
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective a
WARNING: All illegal access operations will be denied in a future release
2020-10-13 07:05:54.700+0000 [id=1] INFO hudson.WebAppMain#contextInitialized:
```

**Step-3** Now we will go to our browser and hit localhost:8080 and we will then landed to the Jenkins portal. We have received a password for Jenkins while starting the Jenkins.war file and by default user name is admin here in Jenkins, then we will login with these credentials.



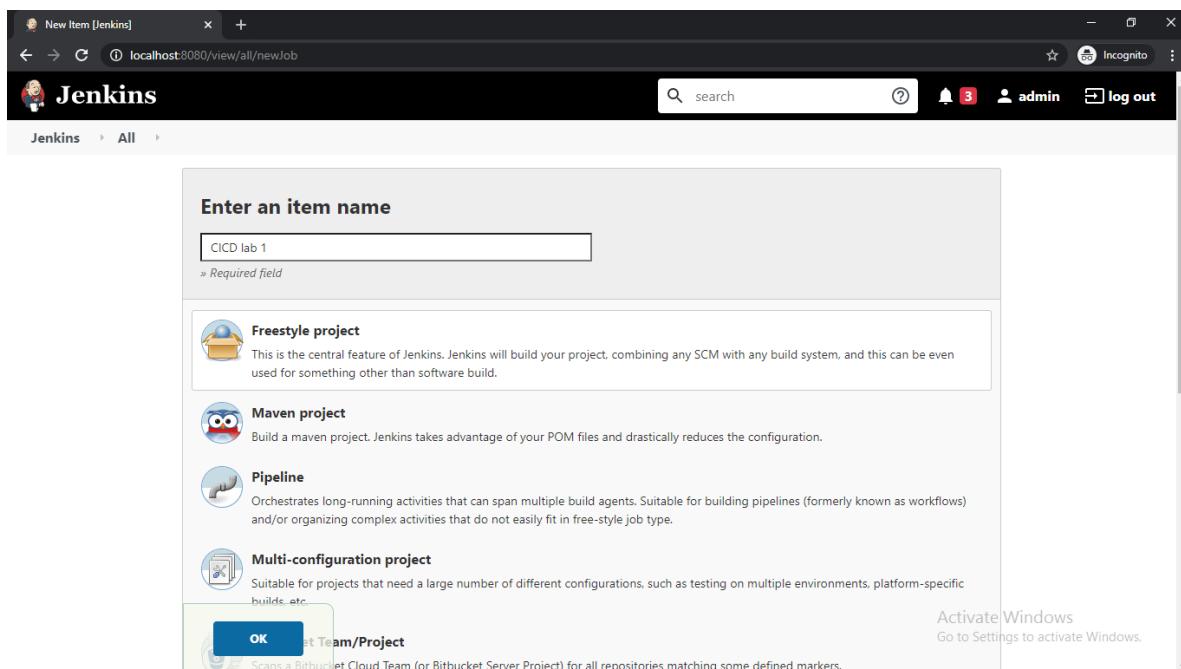
## Step-4 After log in we'll landed to this dashboard



The screenshot shows the Jenkins dashboard in a web browser. The top navigation bar includes the Jenkins logo, a search bar, and user information (admin, log out). The left sidebar contains a menu with options like 'New Item', 'People', 'Build History', 'Project Relationship', 'Check File Fingerprint', 'Manage Jenkins', 'My Views', 'Open Blue Ocean', 'Lockable Resources', and 'New View'. The main content area displays a table of builds under the 'All' tab. The table has columns for 'S' (Status), 'W' (Weather icon), 'Name', 'Last Success', 'Last Failure', 'Last Duration', and 'Fav'. The builds listed are BlueOcean, CICD LAB 5, hello, jenkins, jenkins\_auto, jenkins\_groovy, and Jenkins\_Nexus. Below the table, there are links for 'Legend', 'Atom feed for all', 'Atom feed for failures', and 'Atom feed for just latest builds'. A 'Build Queue' section on the left indicates 'No builds in the queue.'.

| S | W | Name           | Last Success      | Last Failure      | Last Duration | Fav |
|---|---|----------------|-------------------|-------------------|---------------|-----|
|   |   | BlueOcean      | 28 days - log     | N/A               | 4.3 sec       |     |
|   |   | CICD LAB 5     | 1 mo 0 days - #1  | N/A               | 18 sec        |     |
|   |   | hello          | 1 mo 26 days - #7 | 1 mo 26 days - #6 | 1.9 sec       |     |
|   |   | jenkins        | N/A               | N/A               | N/A           |     |
|   |   | jenkins_auto   | N/A               | 1 mo 0 days - #1  | 1.7 sec       |     |
|   |   | jenkins_groovy | 1 mo 19 days - #1 | N/A               | 28 sec        |     |
|   |   | Jenkins_Nexus  | 6 days 20 hr - #4 | 6 days 20 hr - #2 | 14 sec        |     |

## Step-5 Now, we will create new job



The screenshot shows the 'New Item' form in Jenkins. The top navigation bar is the same as the dashboard. The left sidebar shows 'Jenkins' > 'All'. The main content area is titled 'Enter an item name' and has a text input field containing 'CICD lab 1'. Below the input field is a link '» Required field'. The form lists four project types: 'Freestyle project', 'Maven project', 'Pipeline', and 'Multi-configuration project'. Each project type has a description. At the bottom, there is a blue 'OK' button and a link 'Get Team/Project'.

**Enter an item name**

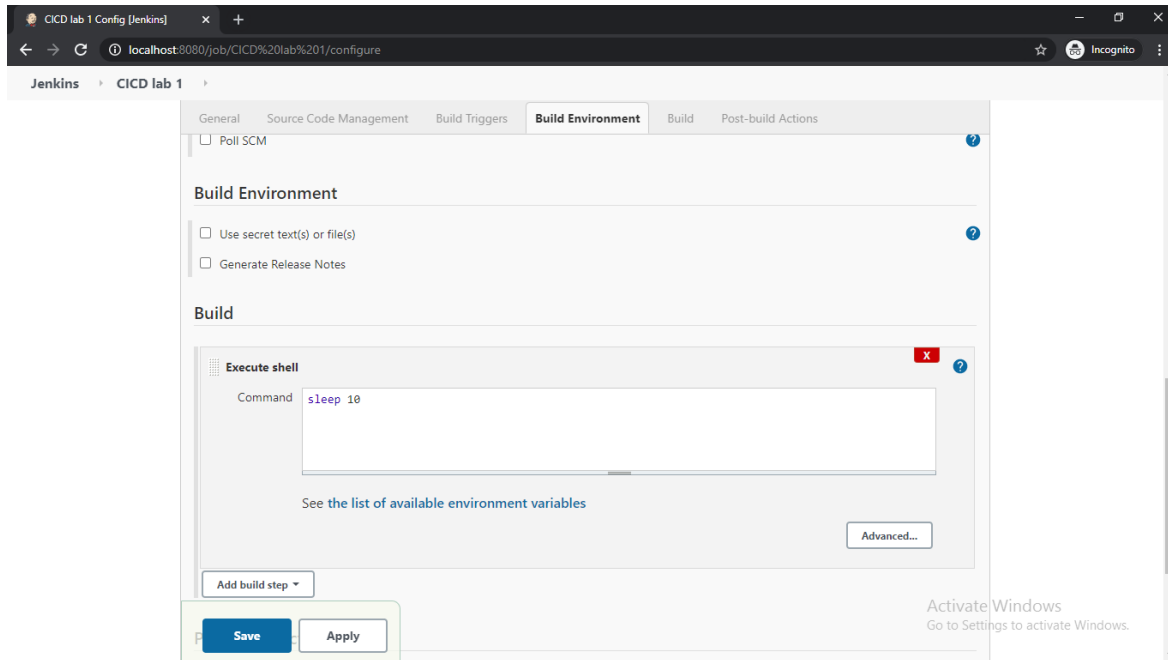
CICD lab 1

» Required field

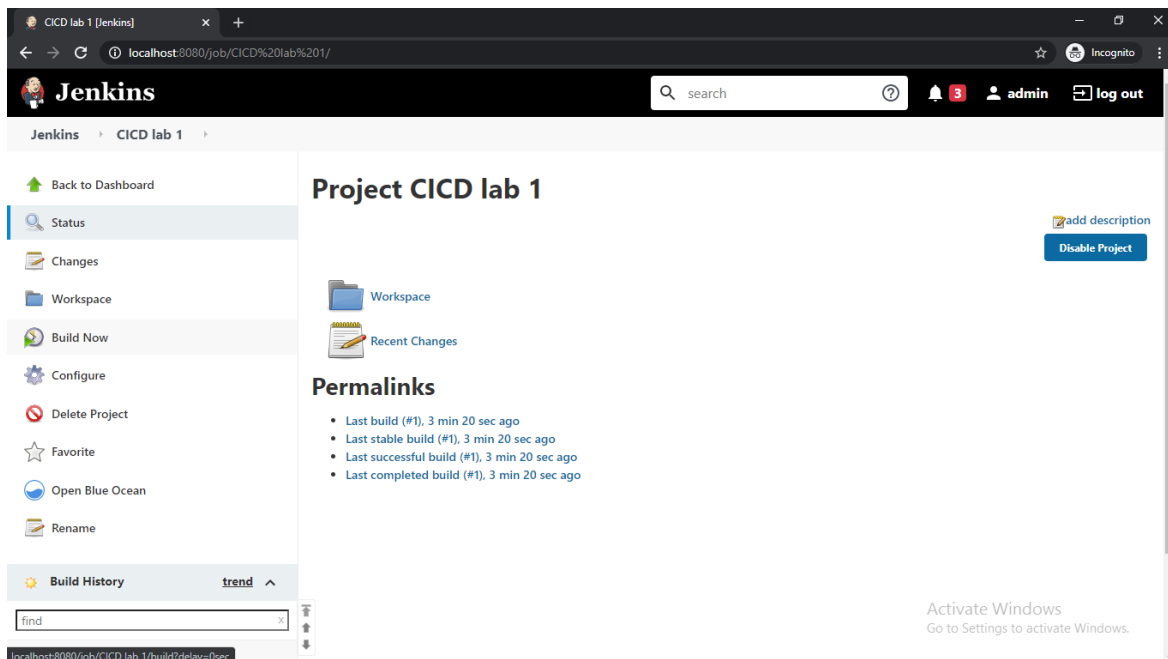
- Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

**OK** [Get Team/Project](#)

**Step-6** We will configure a newly created job and I have written a sleep command in this simple job.



**Step 7** Build this job



**Step-8** The job has been successfully run.

The screenshot displays the Jenkins web interface in a web browser. The browser's address bar shows the URL `localhost:8080/job/CICD%20lab%201/1/console`. The Jenkins header includes the logo, a search bar, and user information for 'admin' with a 'log out' link. The main navigation sidebar on the left contains links for 'Back to Project', 'Status', 'Changes', 'Console Output' (which is selected), 'View as plain text', 'Edit Build Information', 'Delete build '#1'', and 'Open Blue Ocean'. The 'Console Output' section shows the following text:

```
Started by user admin
Running as SYSTEM
Building on master in workspace C:\Users\HP\.jenkins\workspace\CICD lab 1
[CICD lab 1] $ sh -xe C:\Users\HP\AppData\Local\Temp\jenkins6994590753002787342.sh
+ sleep 10
Finished: SUCCESS
```

At the bottom right of the page, there is a 'Activate Windows' watermark and the text 'Go to Settings to activate Windows. REST API Jenkins 2.252'.