

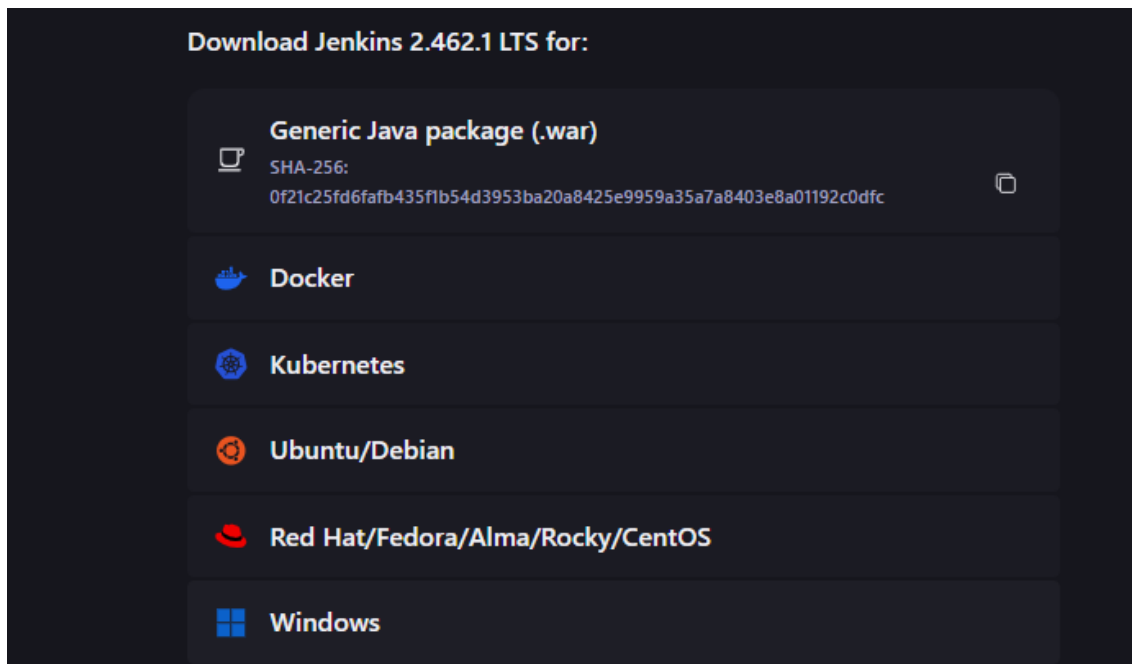
# Experiment No. 4

## Procedure :

Step 1 : Go to jenkins.io



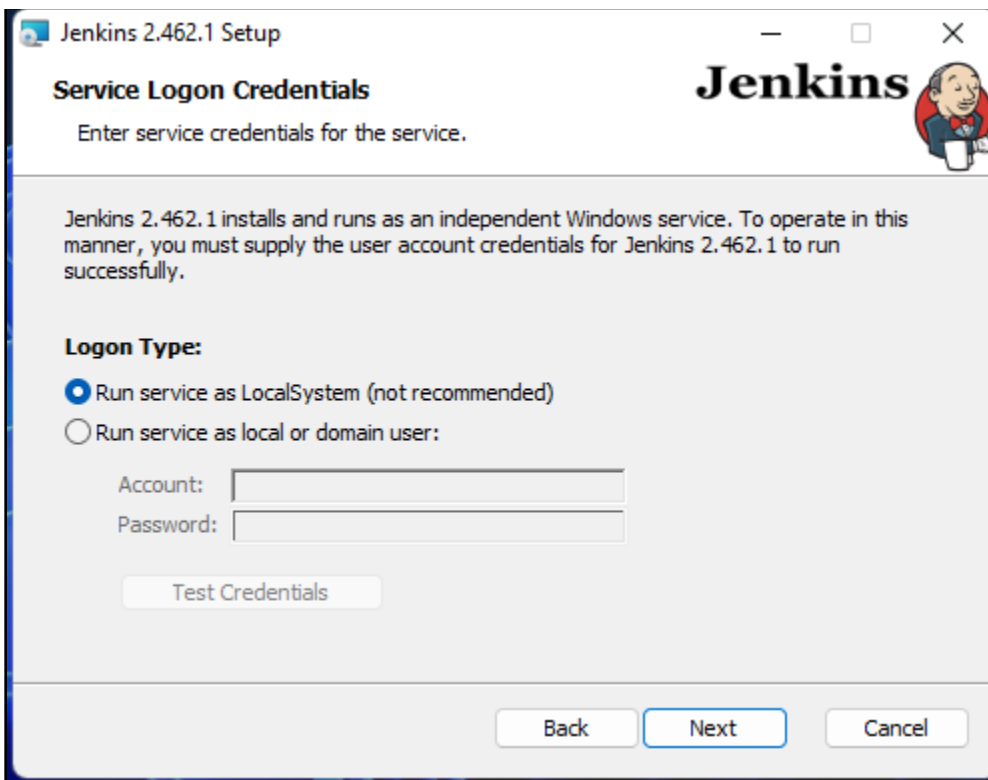
Step 2 : Download Jenkins.



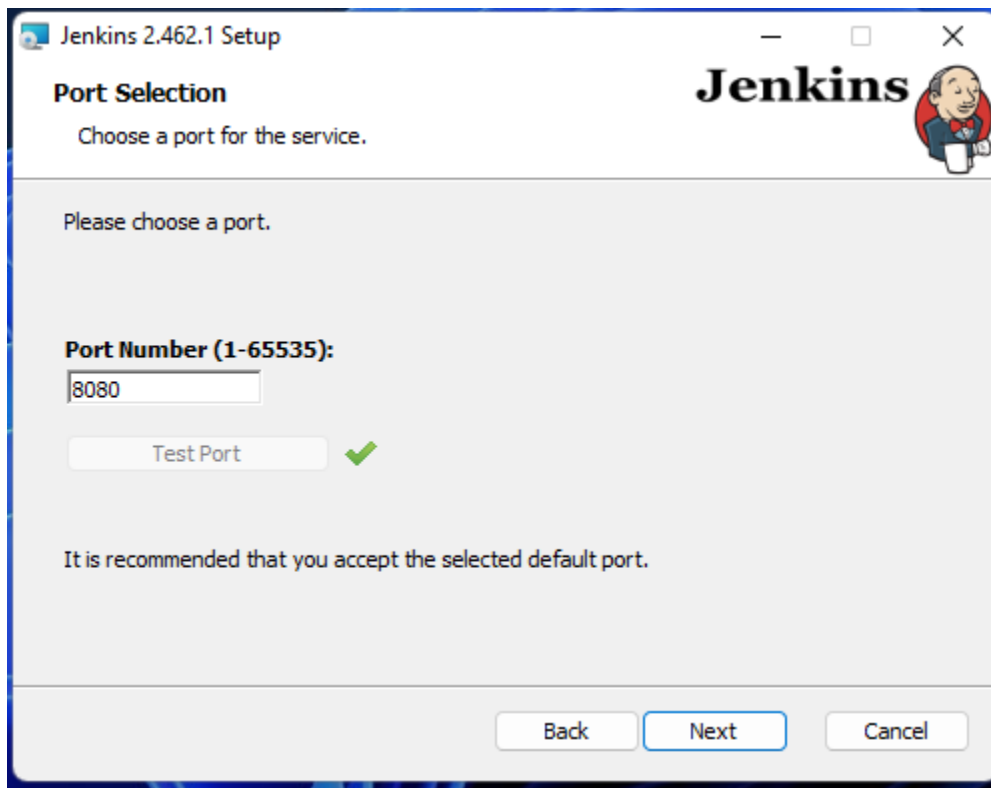
Step 3 : Start Jenkins setup.



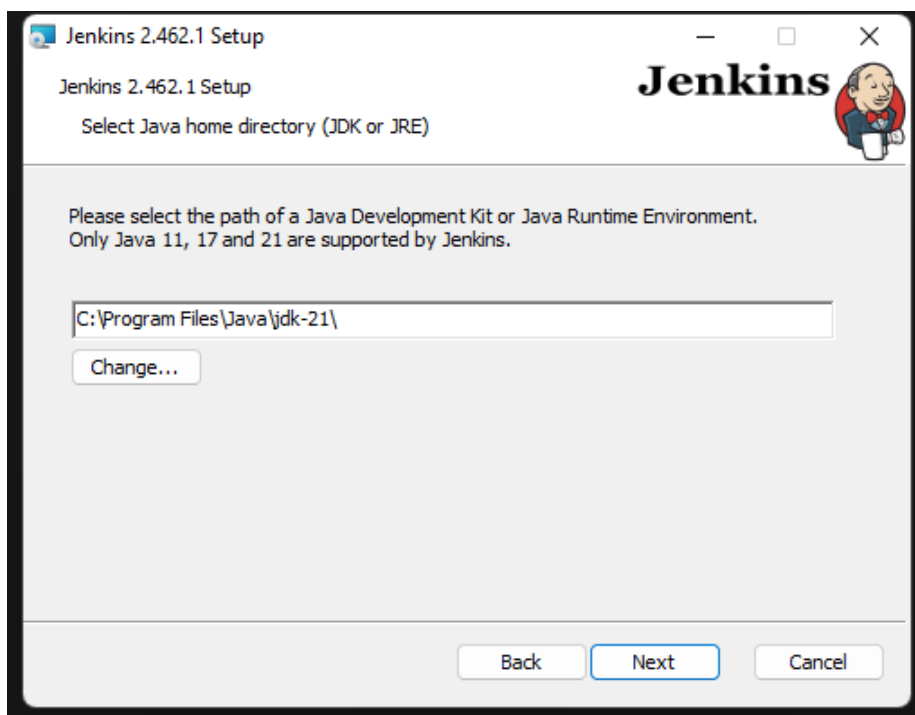
Step 4 : Run service as LocalSystem.



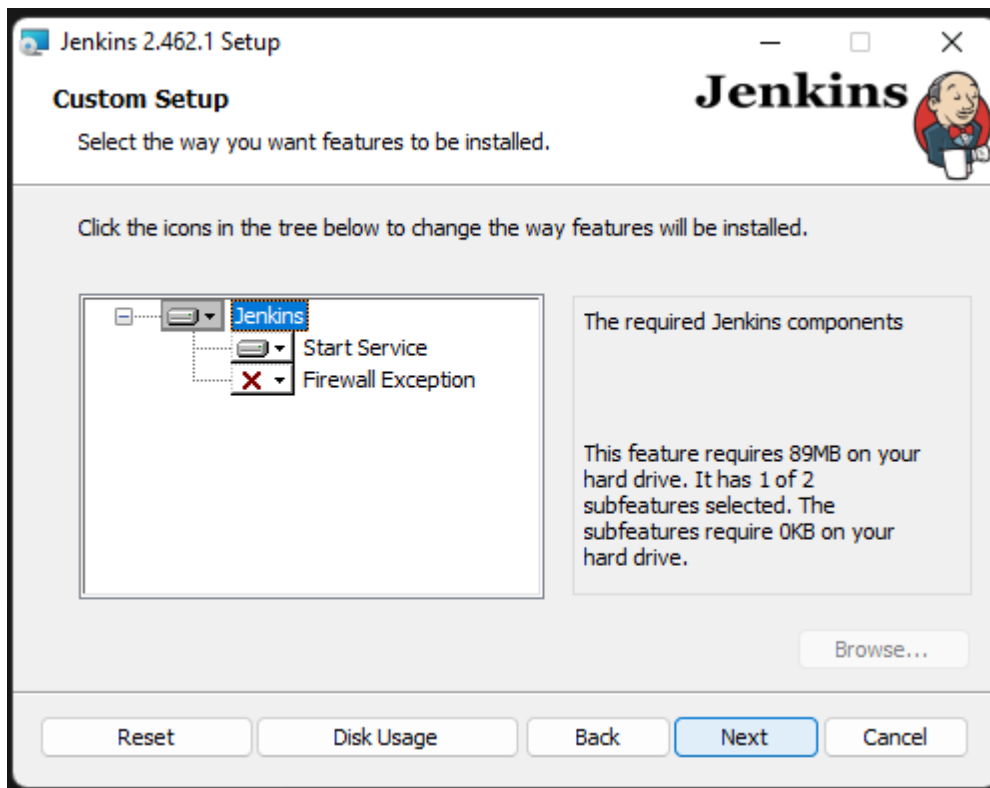
Step 5 : Port number 8080.



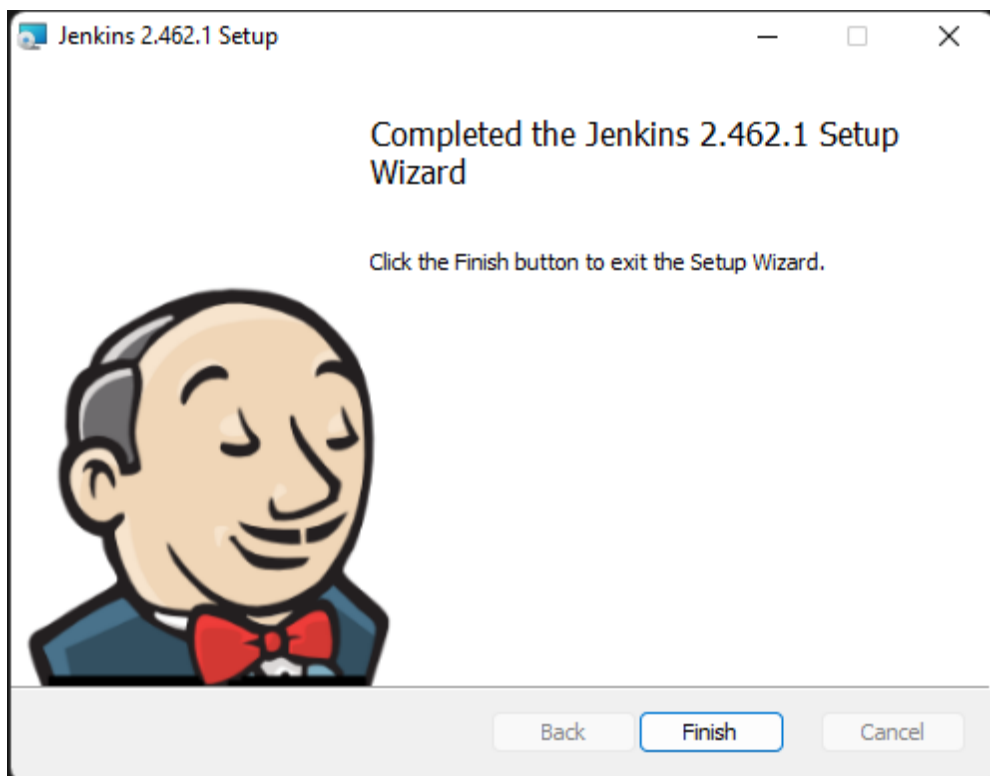
Step 6 : Set JDK path.



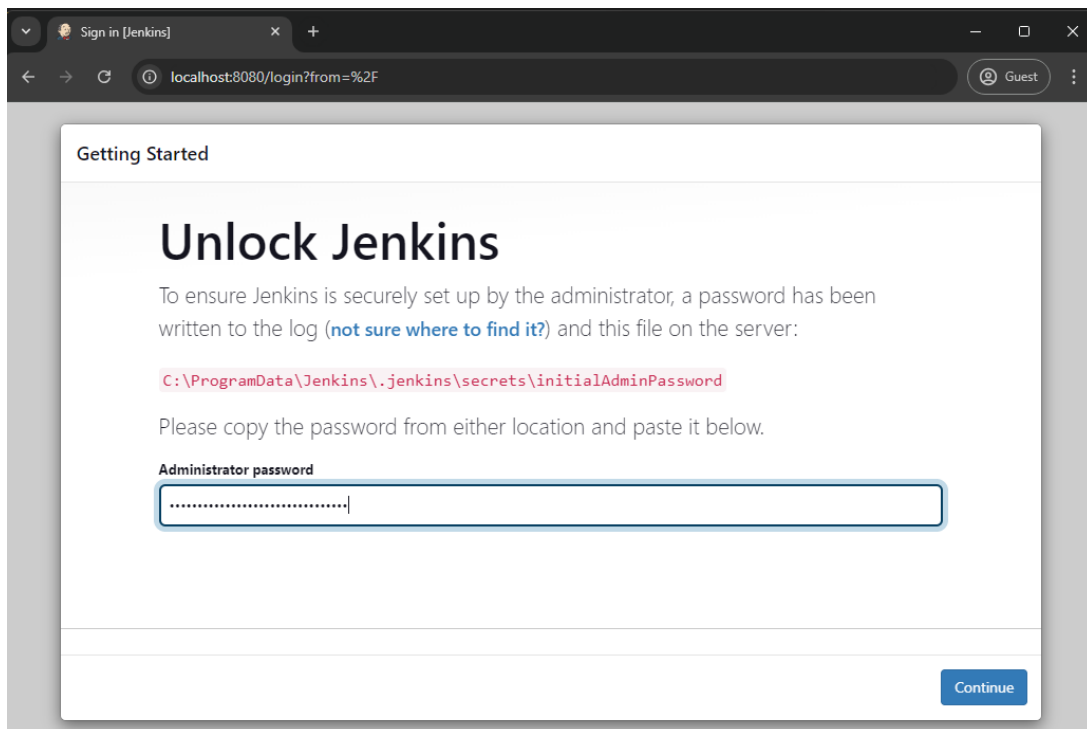
Step 7 : Click on next and install.



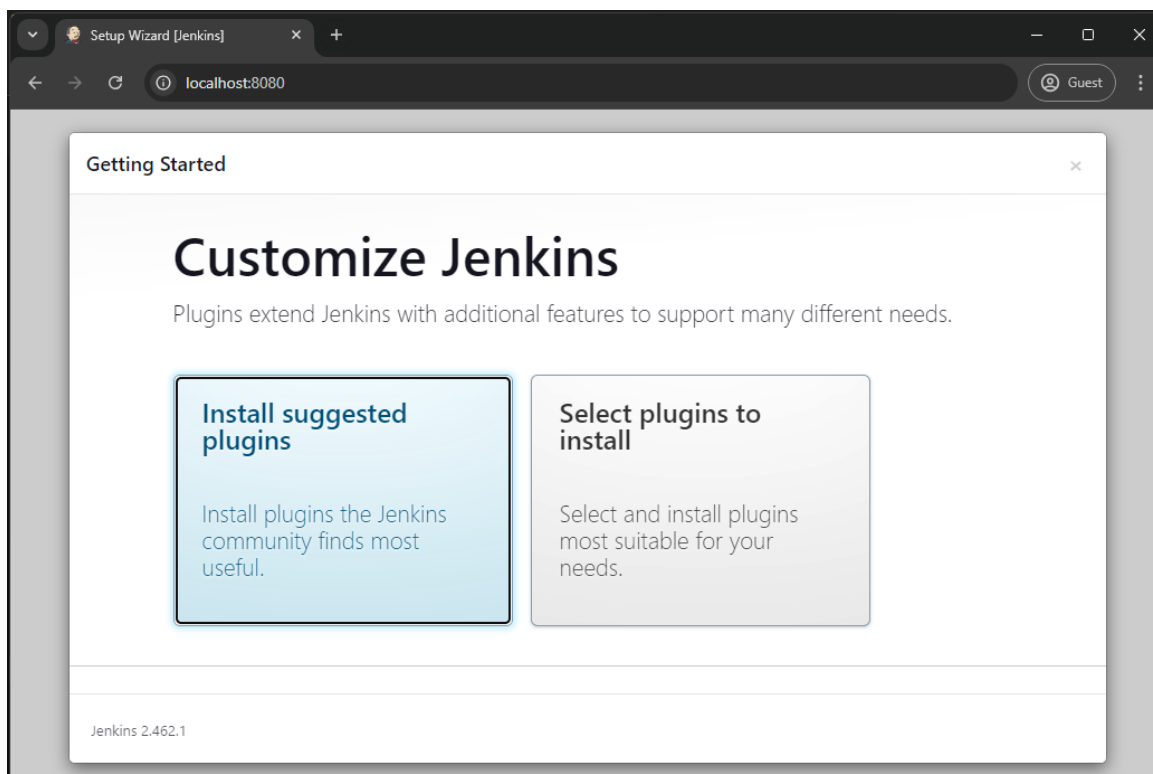
Step 8 : Jenkins setup is completed.



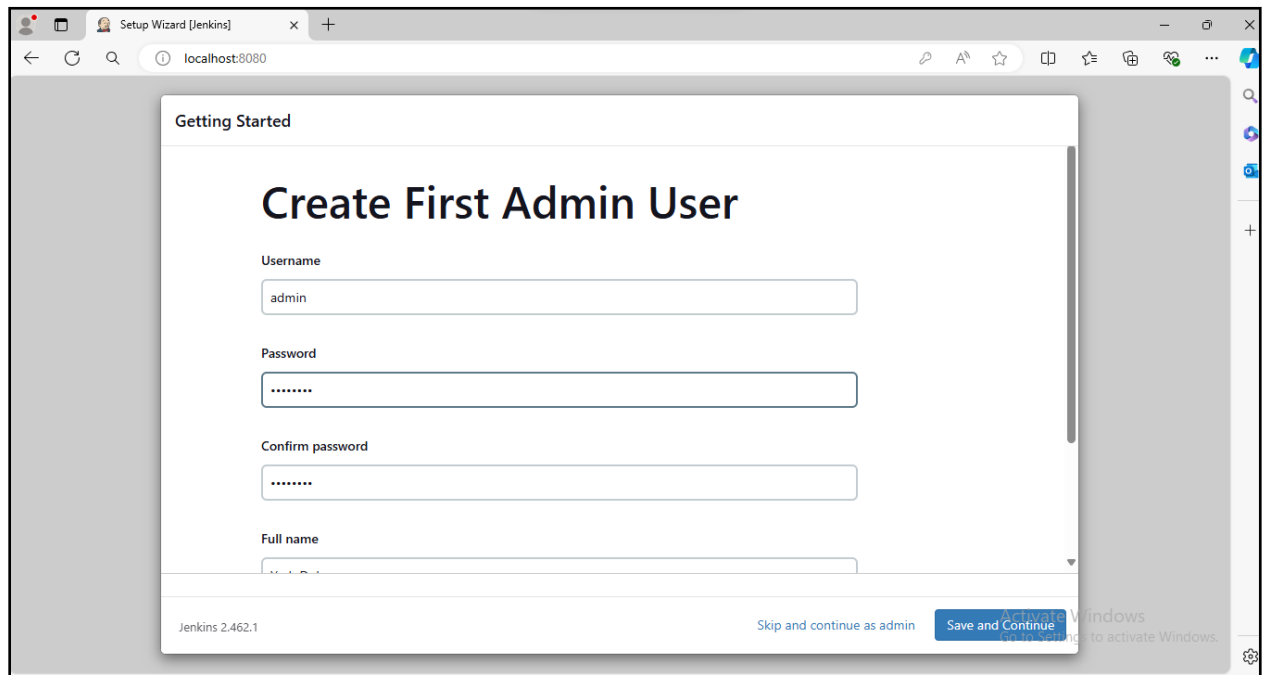
Step 9 : Get password from the path and unlock Jenkins.



Step 10 : Install suggested plugins.



## Step 11 : Create User.



The screenshot shows the 'Getting Started' section of the Jenkins Setup Wizard. The main heading is 'Create First Admin User'. Below this, there are four input fields: 'Username' (containing 'admin'), 'Password' (masked with dots), 'Confirm password' (masked with dots), and 'Full name' (empty). At the bottom left, it says 'Jenkins 2.462.1'. At the bottom right, there are two buttons: 'Skip and continue as admin' and 'Save and Continue'. A Windows watermark is visible in the bottom right corner.

Getting Started

## Create First Admin User

Username

Password

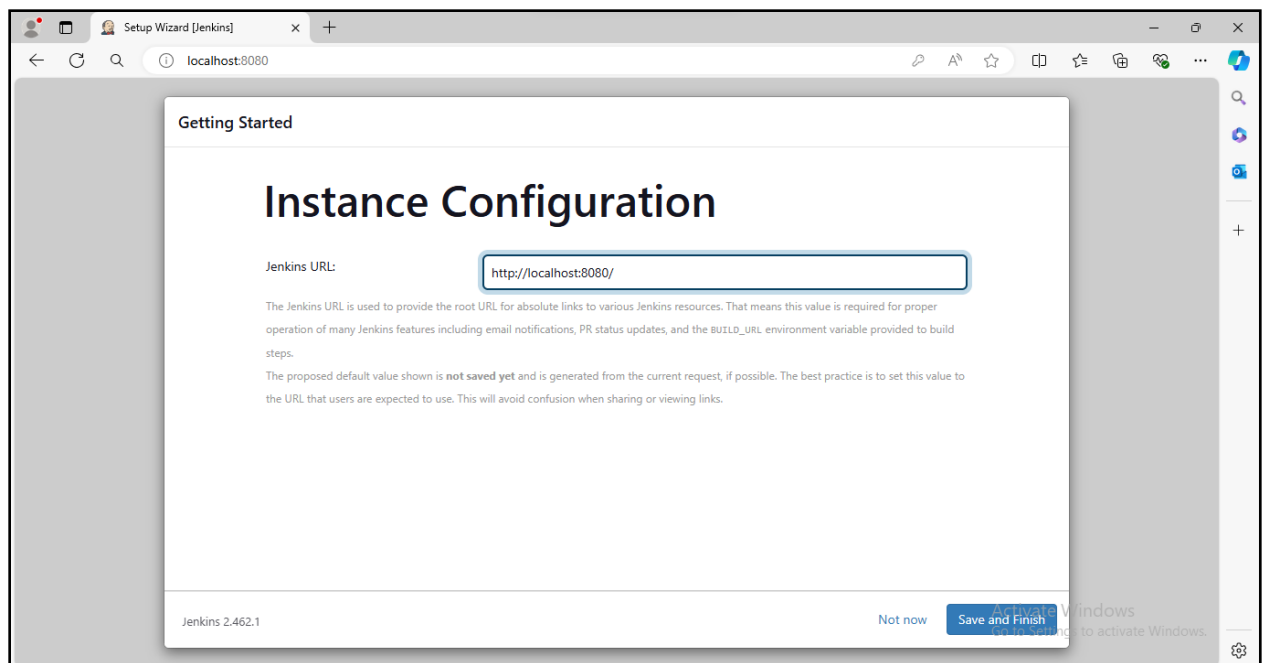
Confirm password

Full name

Jenkins 2.462.1

[Skip and continue as admin](#) [Save and Continue](#)

## Step 12 : Configure instance.



The screenshot shows the 'Getting Started' section of the Jenkins Setup Wizard. The main heading is 'Instance Configuration'. Below this, there is a 'Jenkins URL:' label and an input field containing 'http://localhost:8080/'. Below the input field, there is a paragraph of text explaining the Jenkins URL. At the bottom left, it says 'Jenkins 2.462.1'. At the bottom right, there are two buttons: 'Not now' and 'Save and Finish'. A Windows watermark is visible in the bottom right corner.

Getting Started

## Instance Configuration

Jenkins URL:

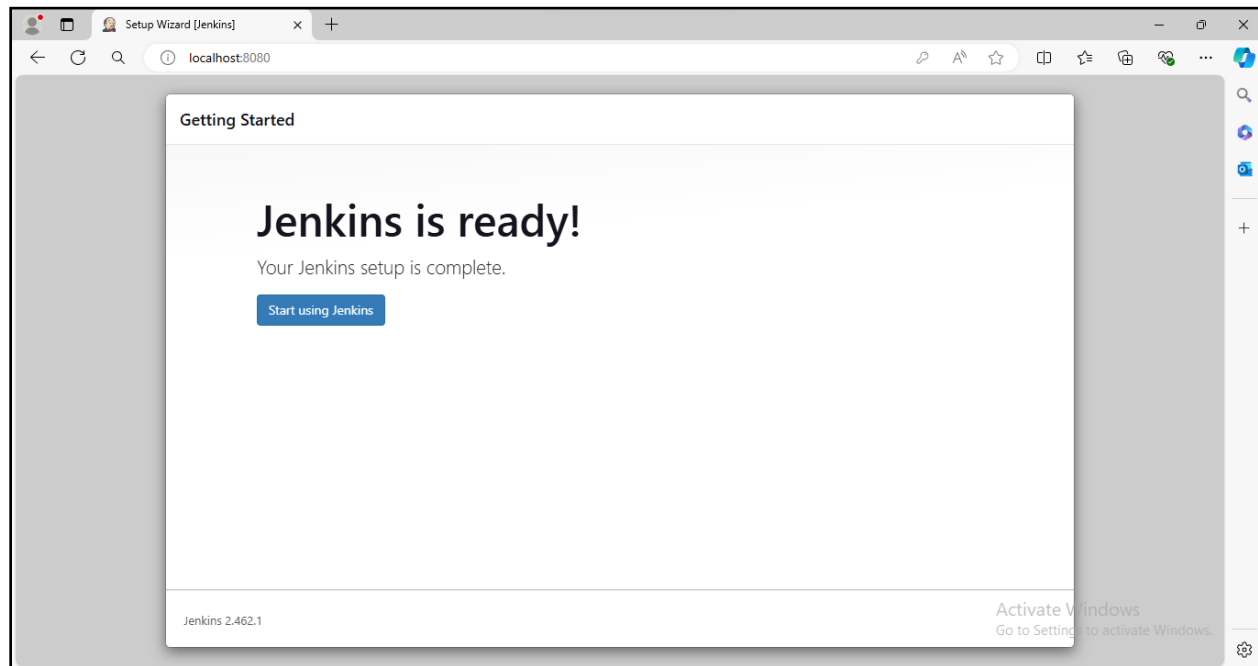
The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD\_URL environment variable provided to build steps.

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.

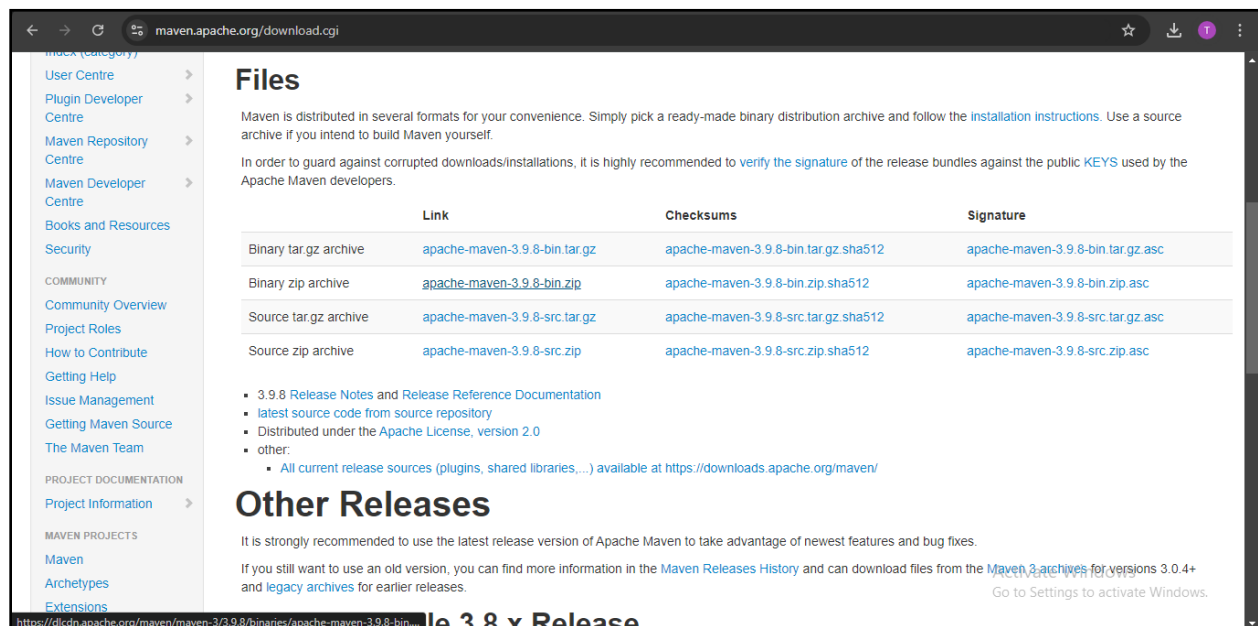
Jenkins 2.462.1

[Not now](#) [Save and Finish](#)

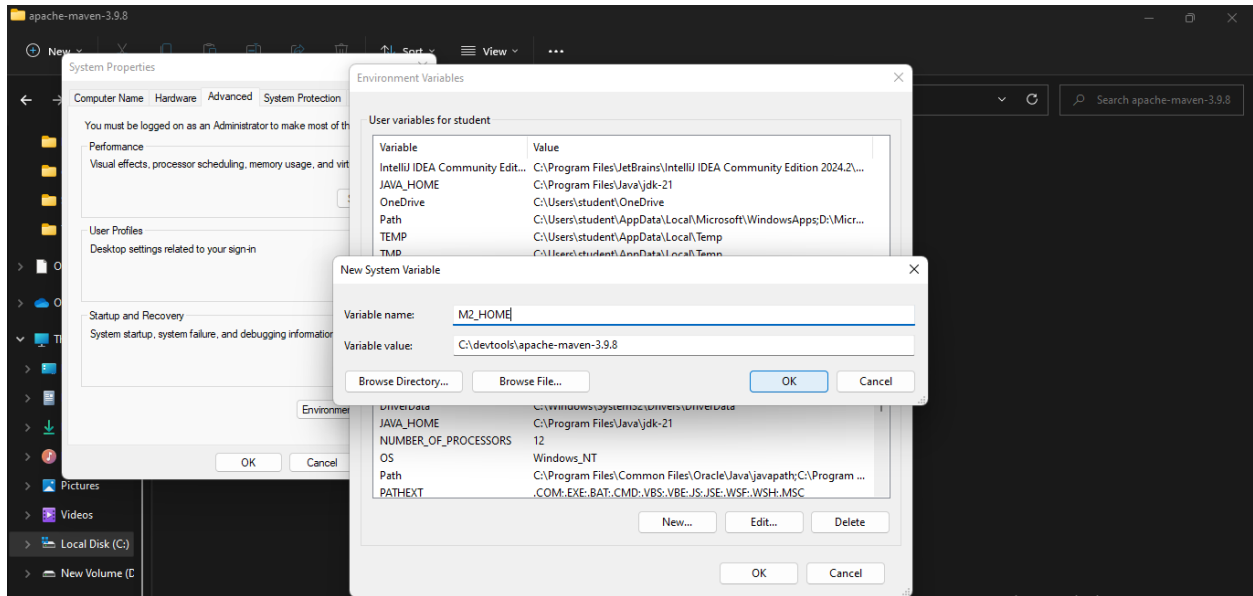
Step 13 : Jenkins is ready.



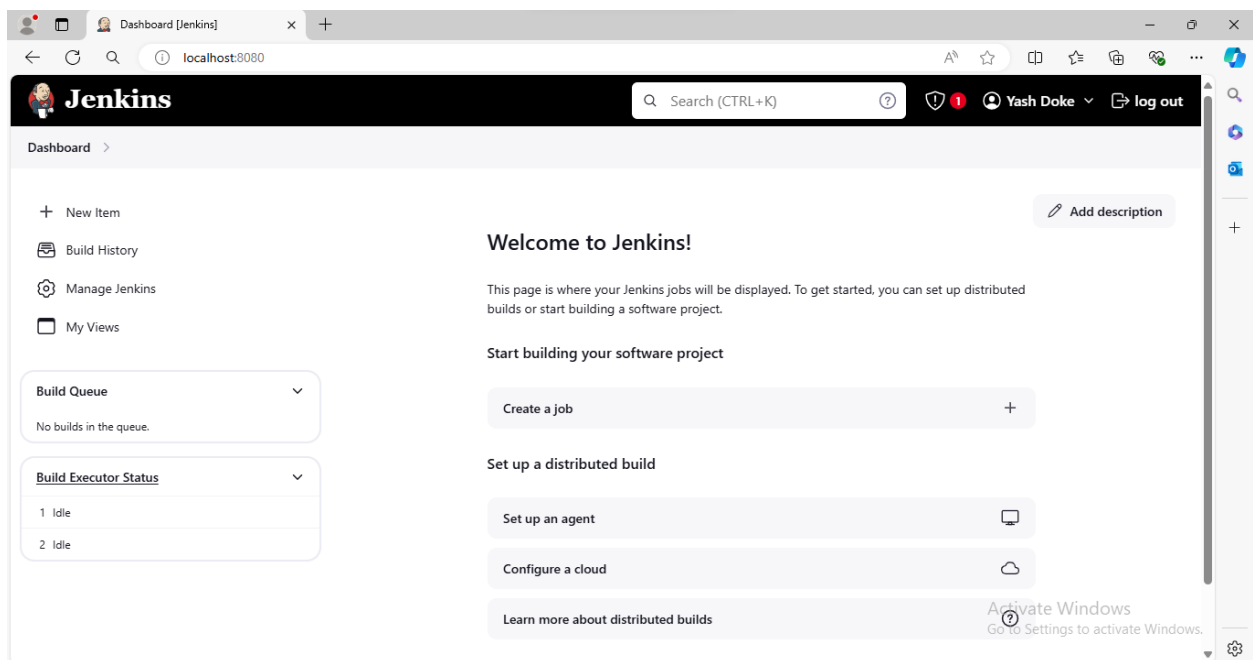
Step 14 : Download Maven.



Step 15 : Extract it in new folder devtools, then set environment variables.

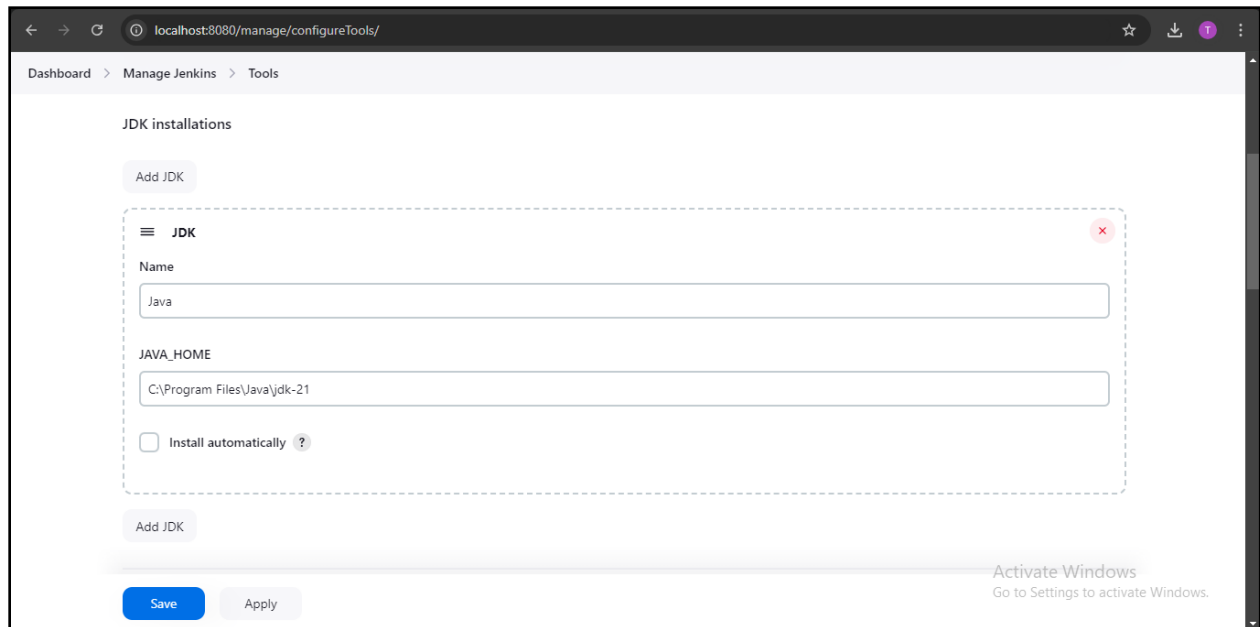


Step 16 : Jenkins dashboard.





## Step 17 : Configure JDK path in Jenkins.



The screenshot shows the Jenkins 'Configure Tools' page for JDK installations. The browser address bar shows 'localhost:8080/manage/configureTools/'. The breadcrumb navigation is 'Dashboard > Manage Jenkins > Tools'. The page title is 'JDK installations'. There is an 'Add JDK' button. A dashed box contains a 'JDK' configuration form with a red close button in the top right corner. The form has a 'Name' field with the value 'Java', a 'JAVA\_HOME' field with the value 'C:\Program Files\Java\jdk-21', and an 'Install automatically' checkbox which is unchecked. Below the dashed box is another 'Add JDK' button. At the bottom of the page are 'Save' and 'Apply' buttons. An 'Activate Windows' watermark is visible in the bottom right corner.

localhost:8080/manage/configureTools/

Dashboard > Manage Jenkins > Tools

JDK installations

Add JDK

**JDK**

Name

Java

JAVA\_HOME

C:\Program Files\Java\jdk-21

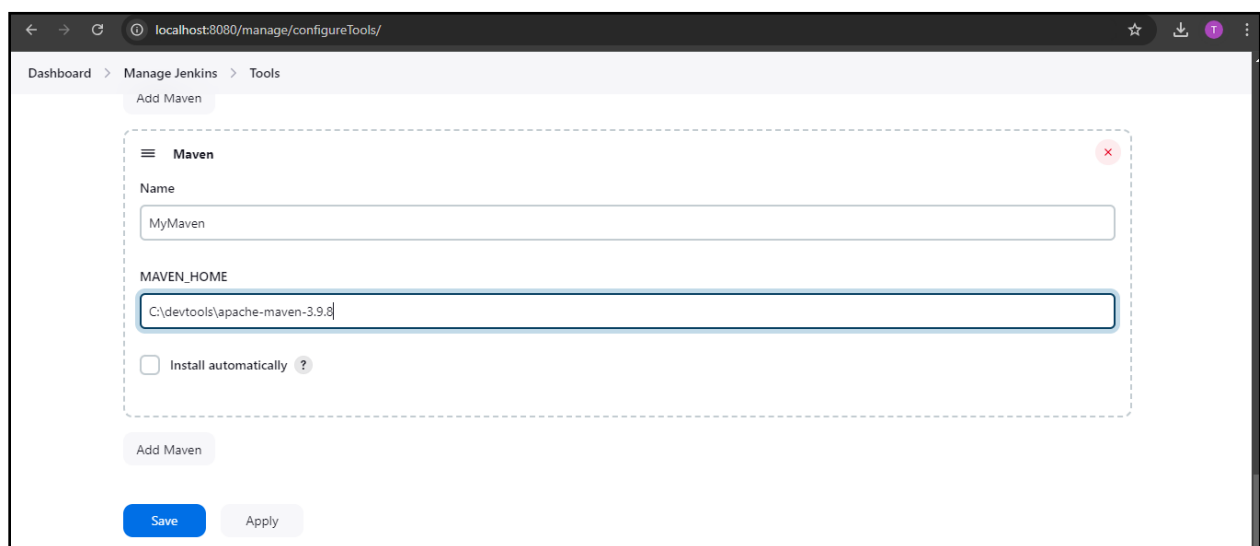
☐ Install automatically ?

Add JDK

Save Apply

Activate Windows  
Go to Settings to activate Windows.

## Step 18 : Configure Maven path in Jenkins.



The screenshot shows the Jenkins 'Configure Tools' page for Maven installations. The browser address bar shows 'localhost:8080/manage/configureTools/'. The breadcrumb navigation is 'Dashboard > Manage Jenkins > Tools'. The page title is 'Add Maven'. A dashed box contains a 'Maven' configuration form with a red close button in the top right corner. The form has a 'Name' field with the value 'MyMaven', a 'MAVEN\_HOME' field with the value 'C:\devtools\apache-maven-3.9.8', and an 'Install automatically' checkbox which is unchecked. Below the dashed box is another 'Add Maven' button. At the bottom of the page are 'Save' and 'Apply' buttons.

localhost:8080/manage/configureTools/

Dashboard > Manage Jenkins > Tools

Add Maven

**Maven**

Name

MyMaven

MAVEN\_HOME

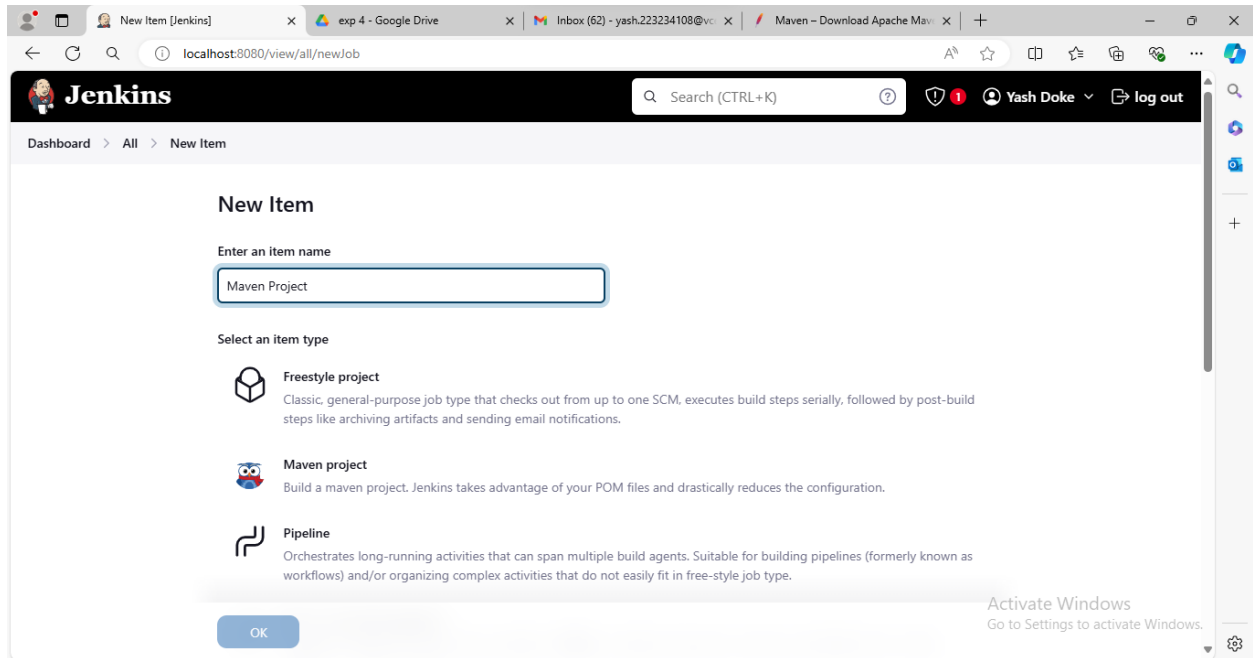
C:\devtools\apache-maven-3.9.8

☐ Install automatically ?

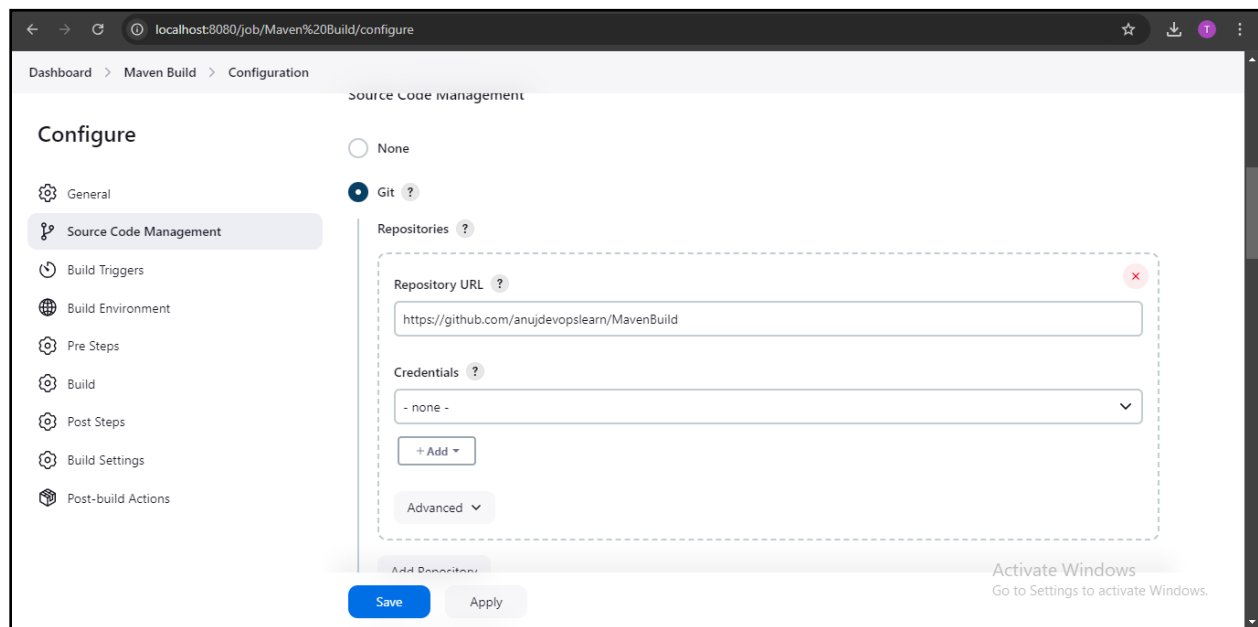
Add Maven

Save Apply

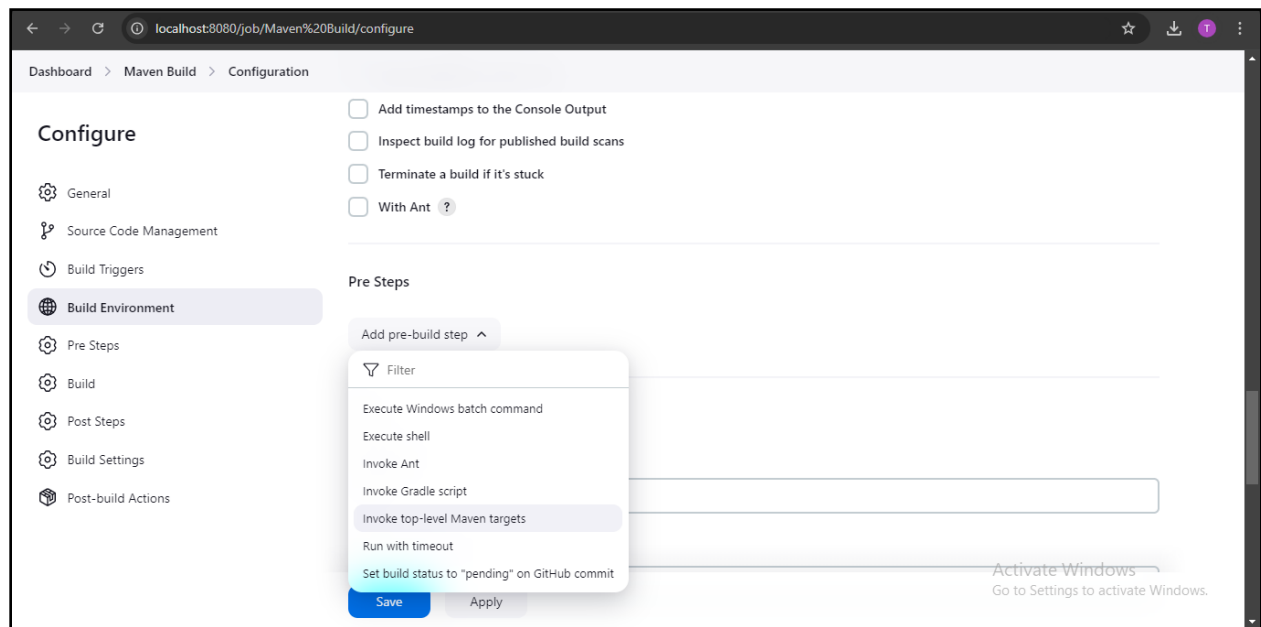
Step 19 : Click on new item, enter item name and select maven project.



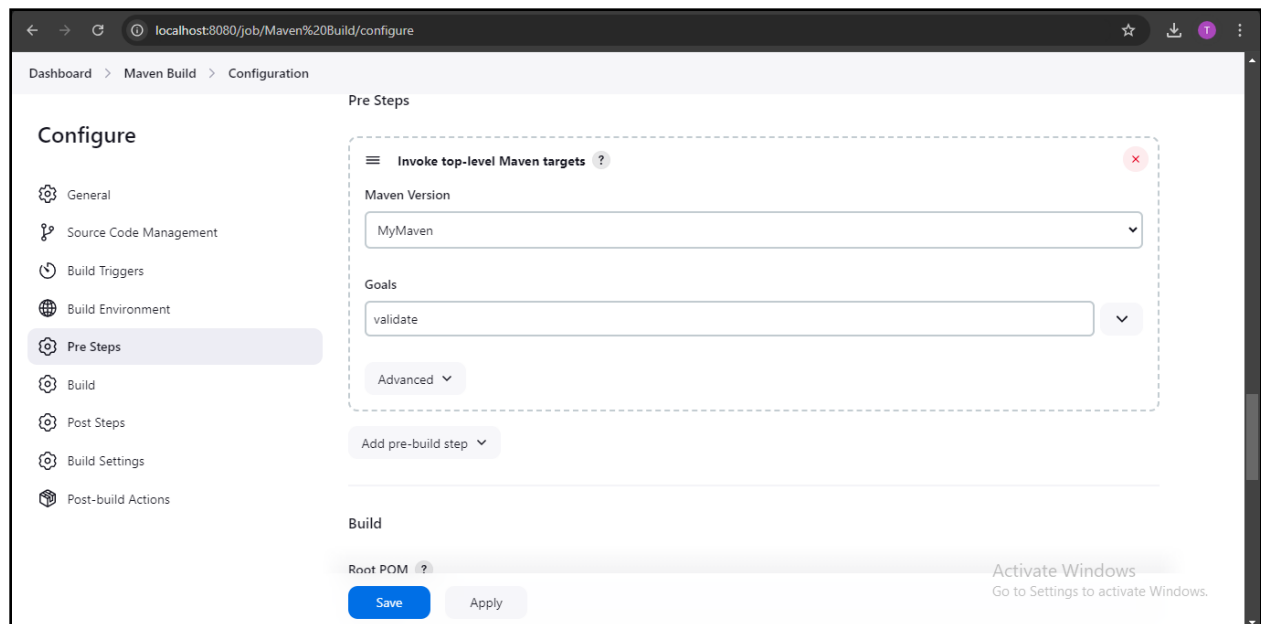
Step 20 : In project configuration, add a GitHub repository.



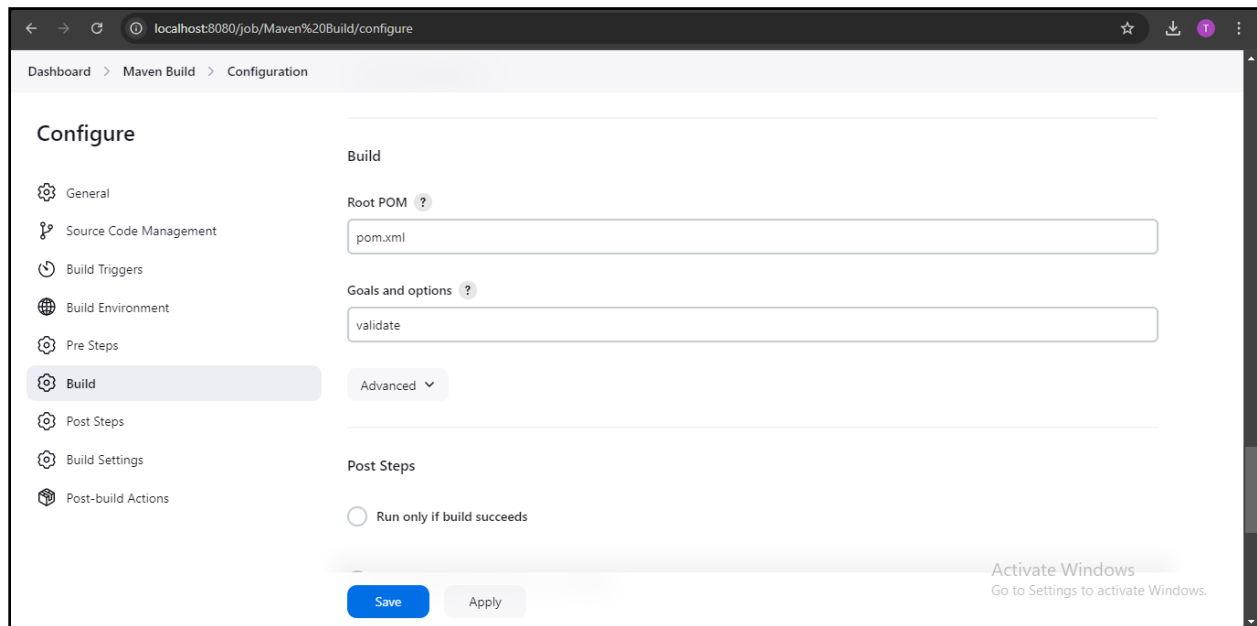
Step 21 : Click invoke top-level maven targets.



Step 22 : Set up pre-steps.



Step 23 : Set root POM and goal, apply and save.



Step 24 : Finally project build is successful.

