

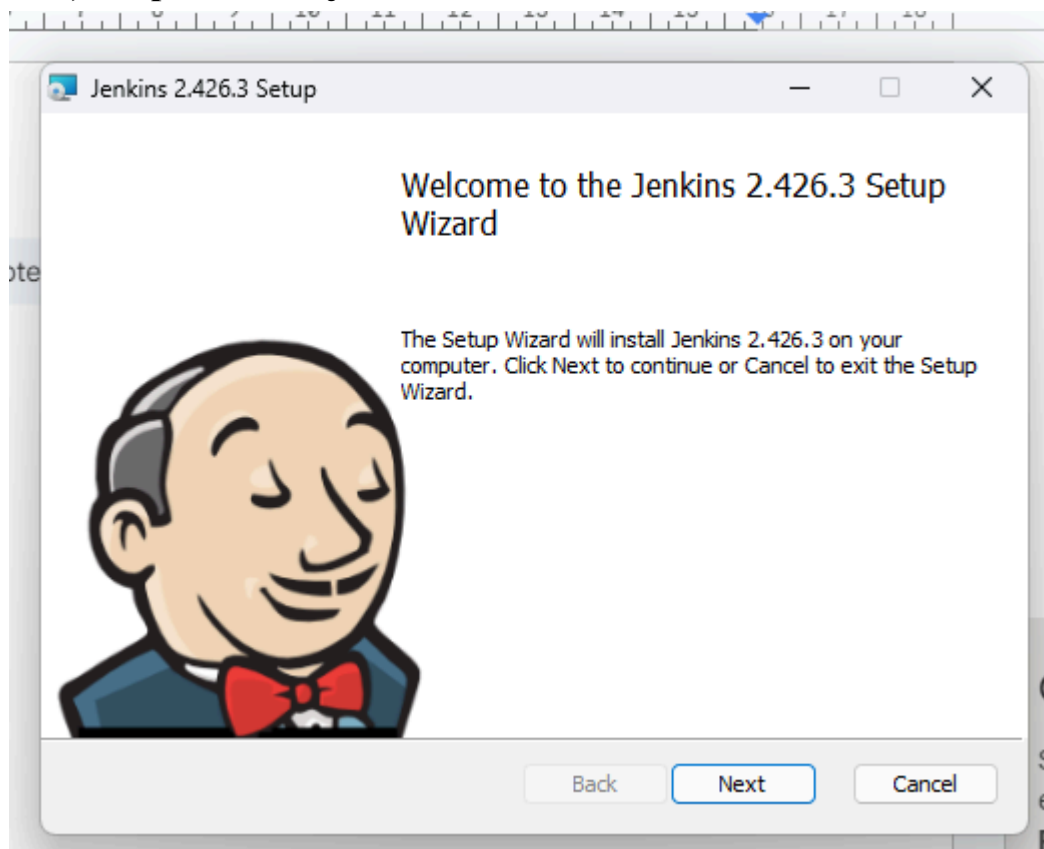
Experiment-4

AIM: To understand continuous integration, install and configure jenkins with maven/and/gradle to setup a build job.

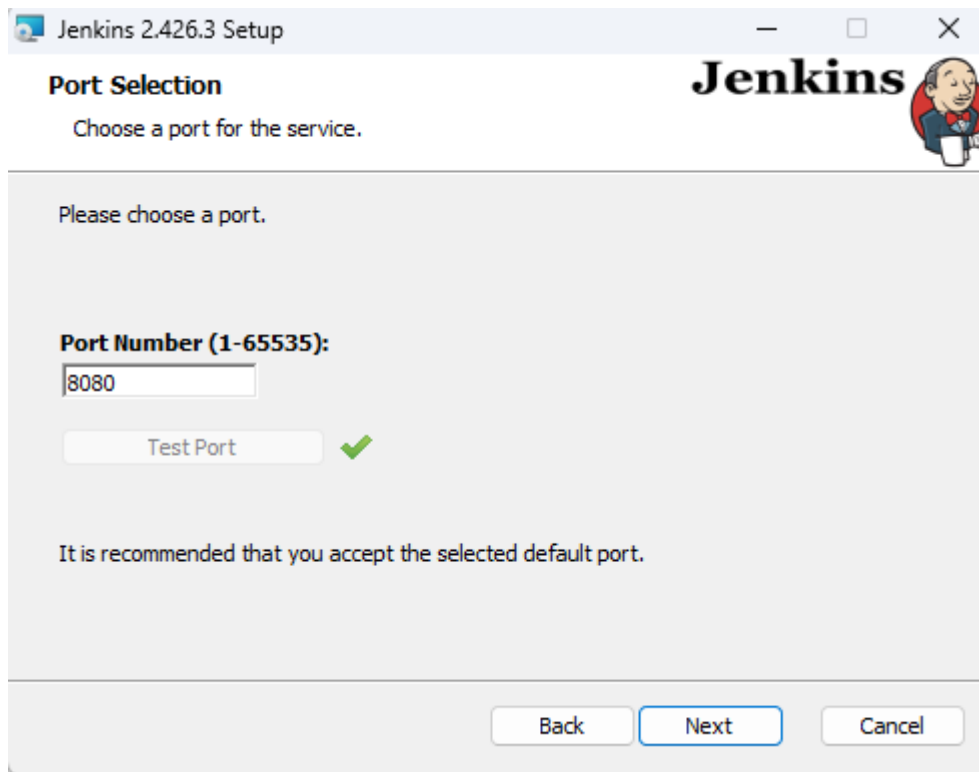
Theory:

Jenkins is an open source automation tool written in Java with plugins built for Continuous Integration purpose. Jenkins is used to build and test your software projects continuously making it easier for developers to integrate changes to the project, and making it easier for users to obtain a fresh build. It also allows you to continuously deliver your software by integrating with a large number of testing and deployment technologies.

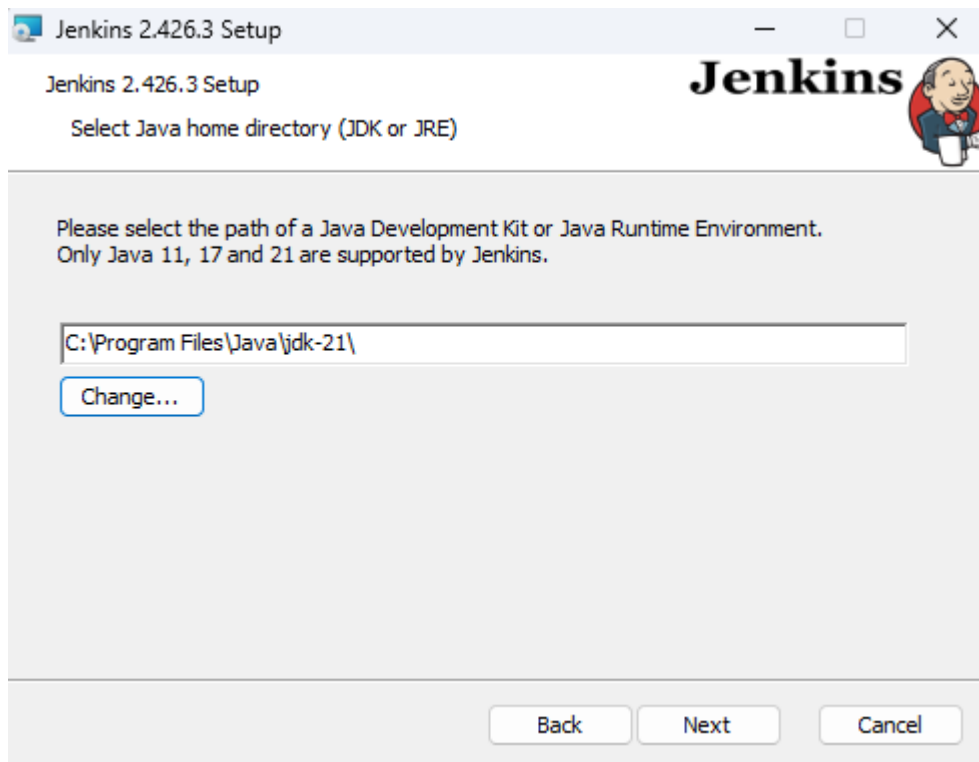
1) Step 1: install jenkins from website



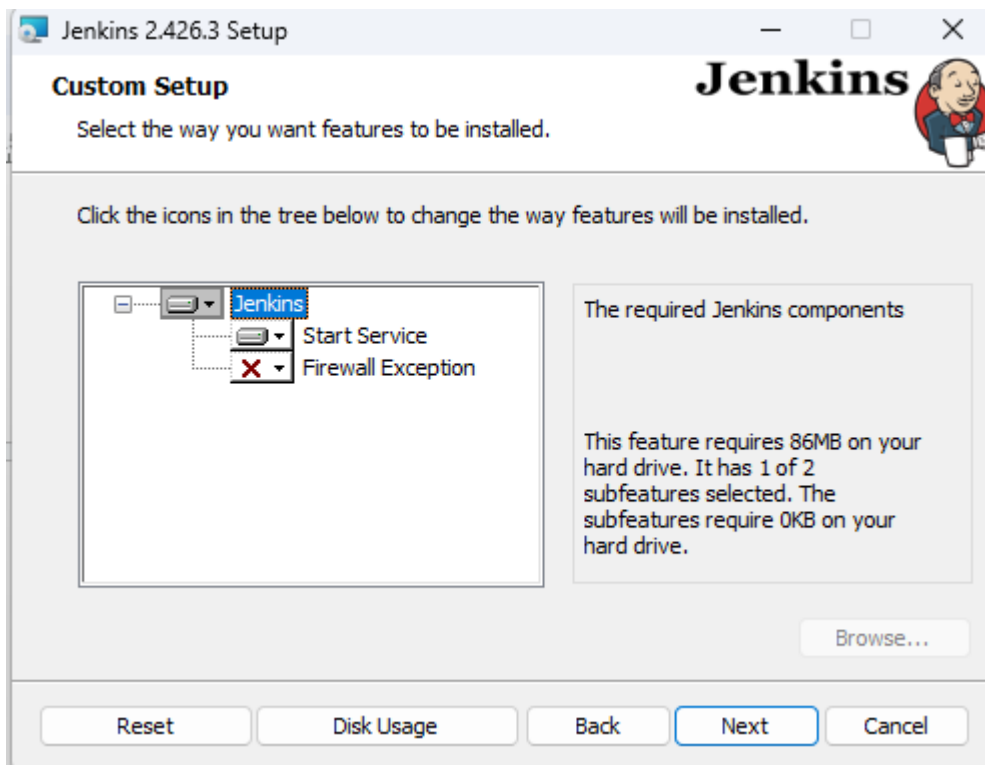
2) Step 2: select the desired options



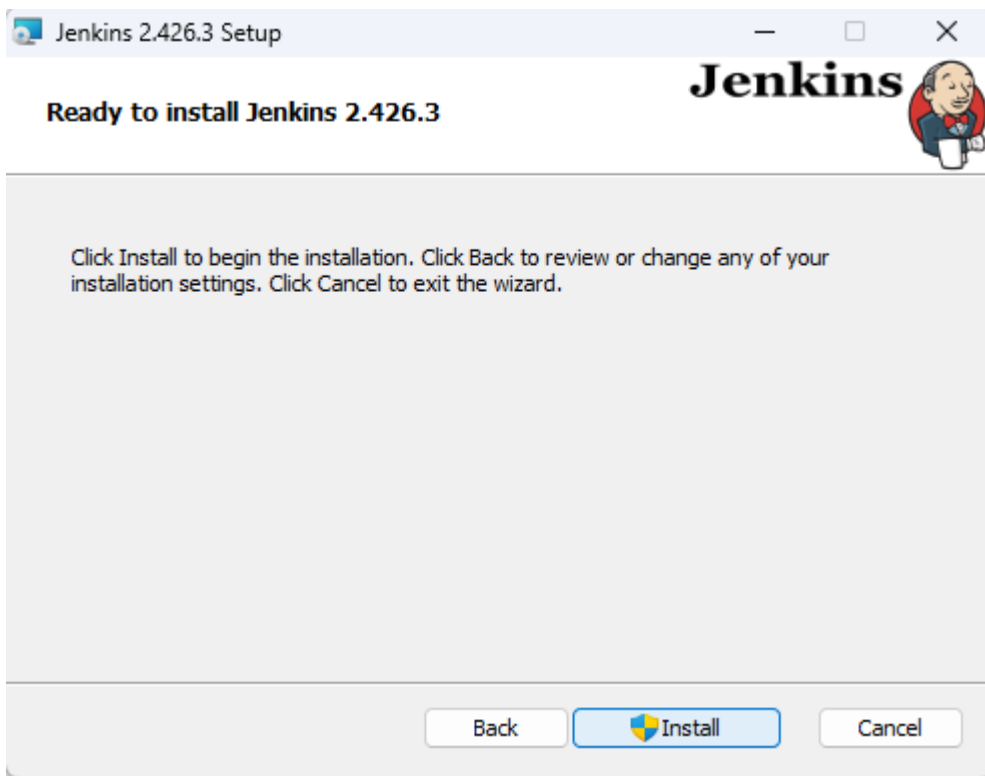
3) Step 3: select the files where jdk 21 is installed



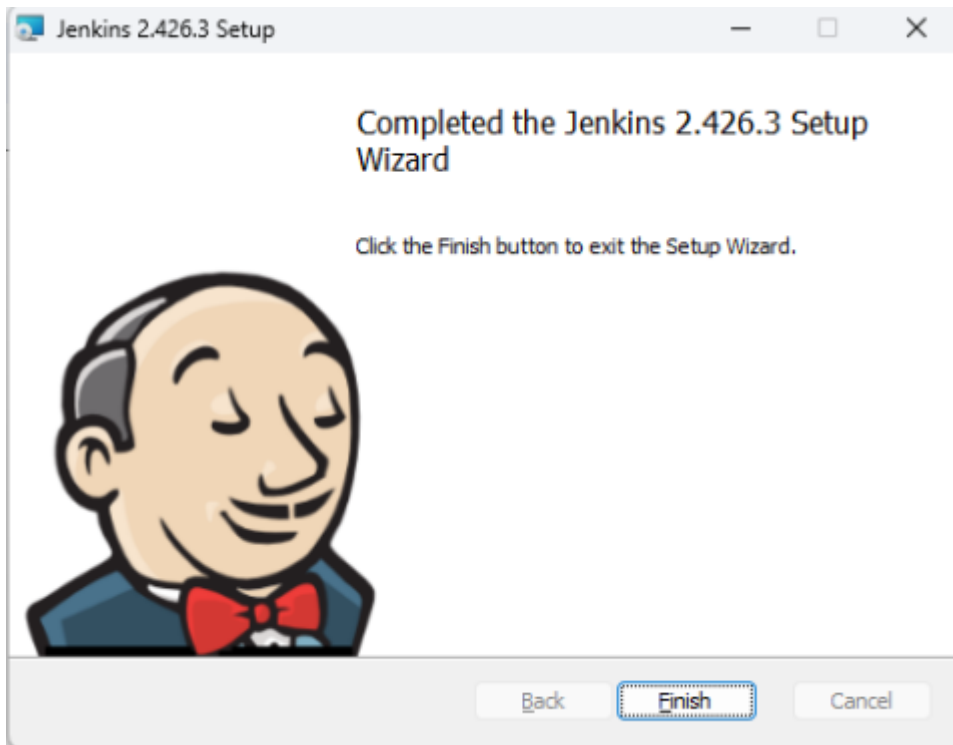
4) Step 4: select the desired options



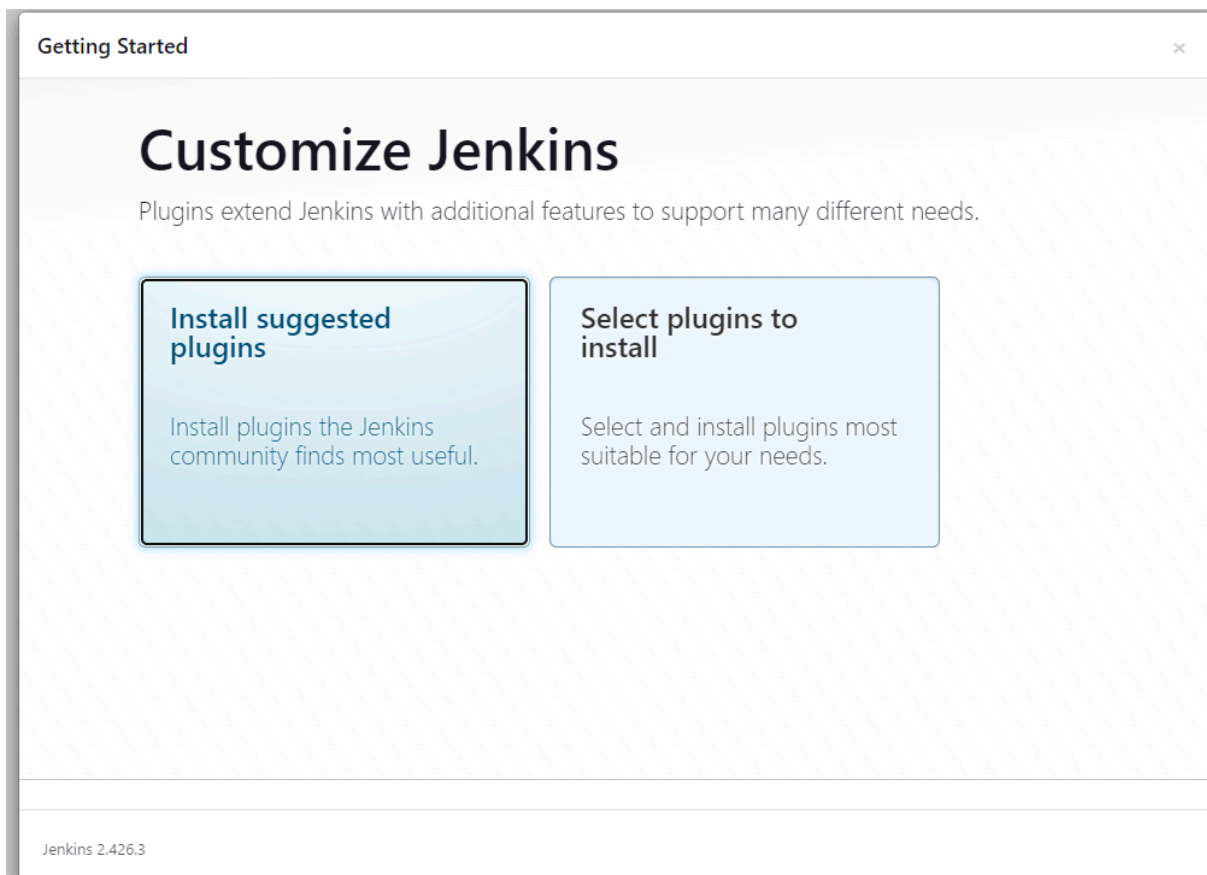
5) Step 5: install the file



6) Step 6: installation is finished



7) Step 7: Go on localhost:8080



8) Step 8: select the options and wait for a few minutes

Getting Started

Getting Started

<input checked="" type="checkbox"/> Folders	<input checked="" type="checkbox"/> OWASP Markup Formatter	<input type="checkbox"/> Build Timeout	<input type="checkbox"/> Credentials Binding	** Ionicons API
<input type="checkbox"/> Timestamper	<input type="checkbox"/> Workspace Cleanup	<input type="checkbox"/> Ant	<input type="checkbox"/> Gradle	Folders
<input type="checkbox"/> Pipeline	<input type="checkbox"/> GitHub Branch Source	<input type="checkbox"/> Pipeline: GitHub Groovy Libraries	<input type="checkbox"/> Pipeline: Stage View	OWASP Markup Formatter
<input type="checkbox"/> Git	<input type="checkbox"/> SSH Build Agents	<input type="checkbox"/> Matrix Authorization Strategy	<input type="checkbox"/> PAM Authentication	
<input type="checkbox"/> LDAP	<input type="checkbox"/> Email Extension	<input type="checkbox"/> Mailer		

** - required dependency

Jenkins 2.426.3

9) Step 9: fill the appropriate credentials

Getting Started

Create First Admin User

Username

Password

Confirm password

Full name

E-mail address

Jenkins 2.426.3

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

10) Step 10:

Create User

Username

Password


Confirm password






Full name

E-mail address


Create User


11) Step 11: Congratulations! You have created your jenkins account


 **Jenkins**


   **Tanishq Upasani**   **log out**


Dashboard >

 New Item

 People

 Build History

 Manage Jenkins

 My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job

Set up a distributed build

Set up an agent

Configure a cloud

Learn more about distributed builds

Add description

REST API

Jenkins 2.426.3