

Name: Meet Duseja

Batch: T12

Roll-No: 27

EXPERIMENT – 4

AIM - To understand Continuous Integration, install and configure Jenkins with Maven/Ant/Gradle to setup a build Job

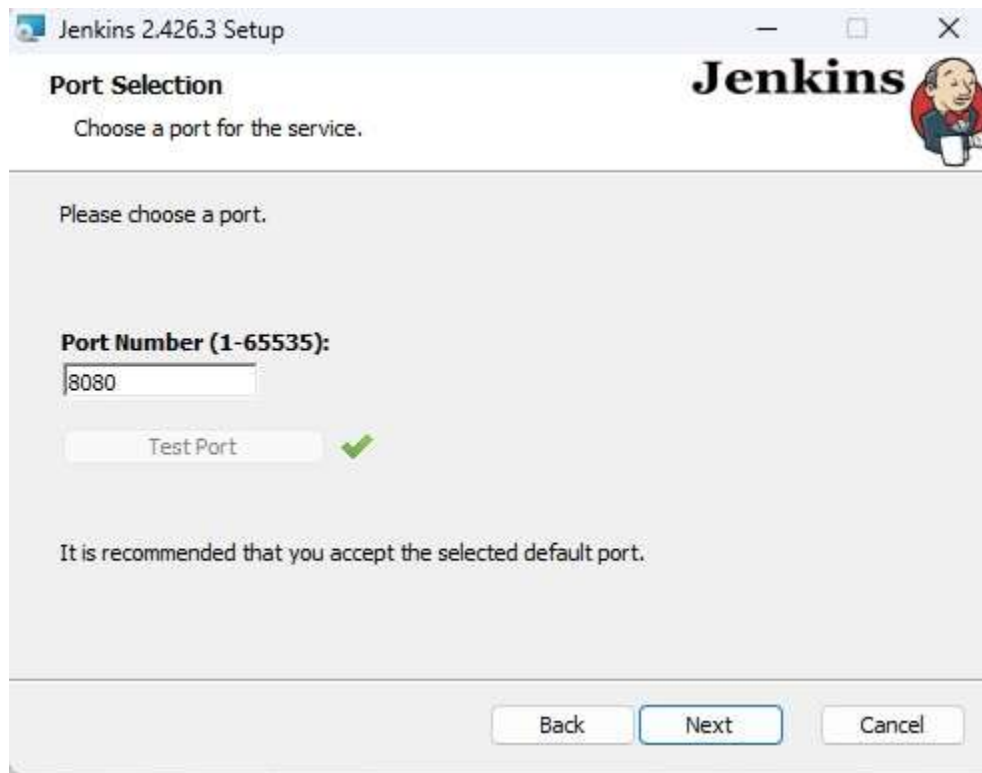
THEORY:

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 many testing and deployment technologies.

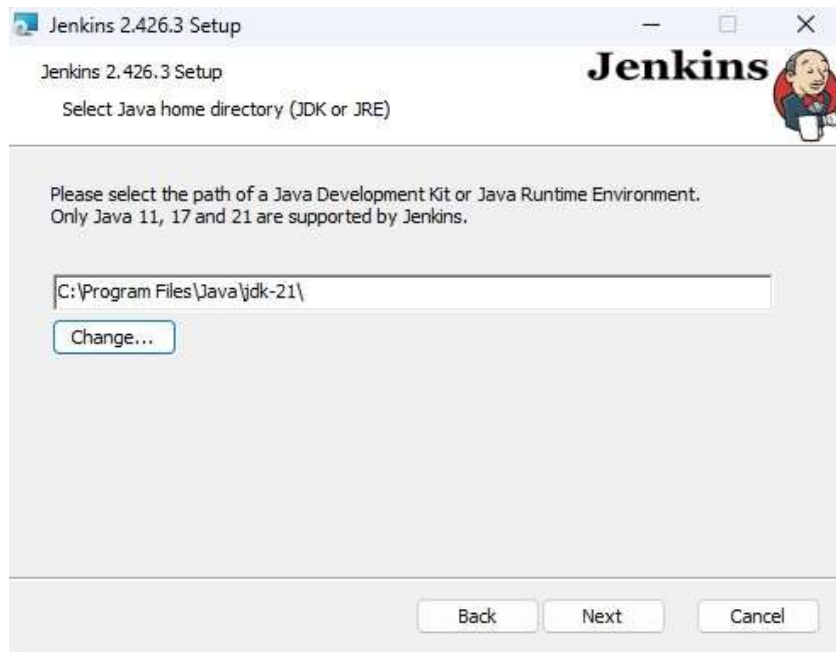
Step 1: Install Jenkins from website



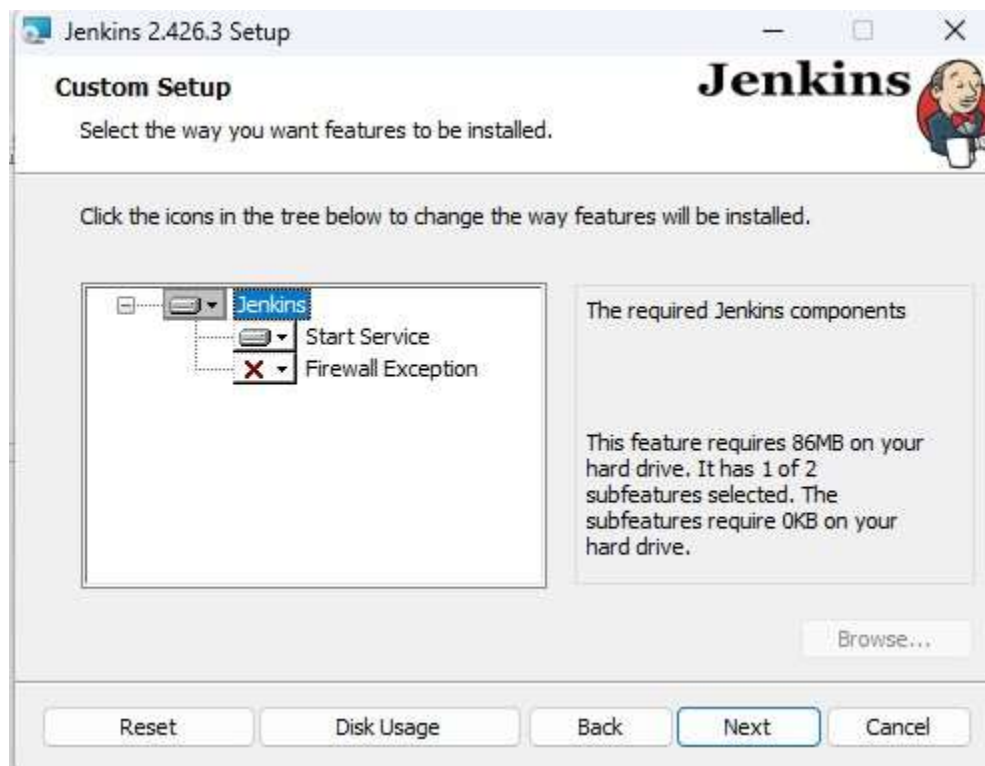
Step 2: Select the desired options



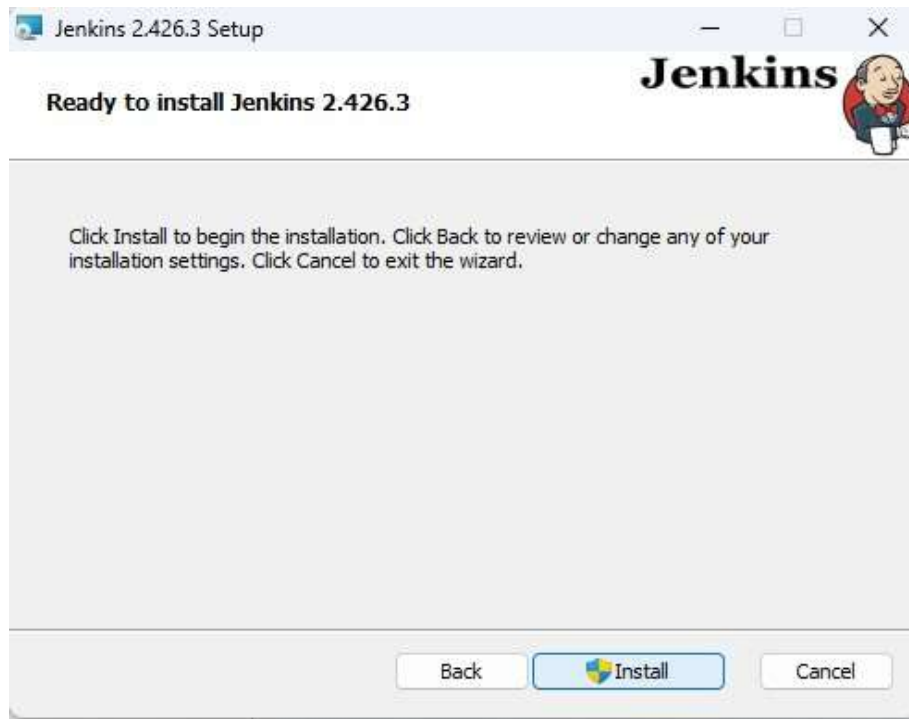
Step 3: Select the files where jdk 21 is installed



Step 4: Select the desired options



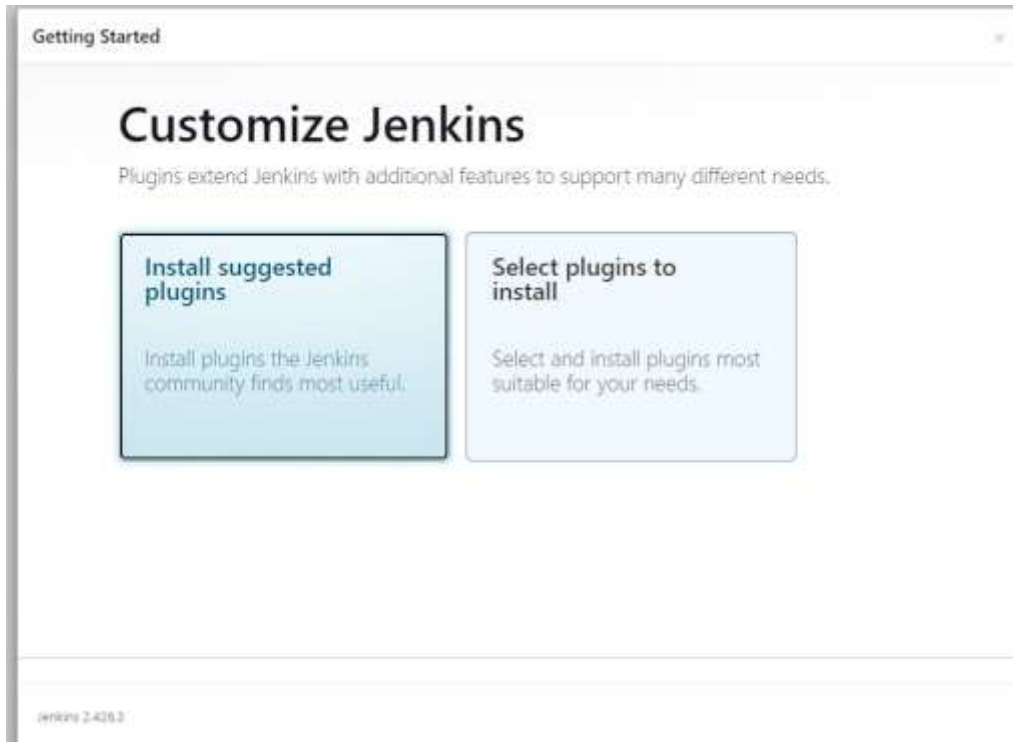
Step 5: Install the file



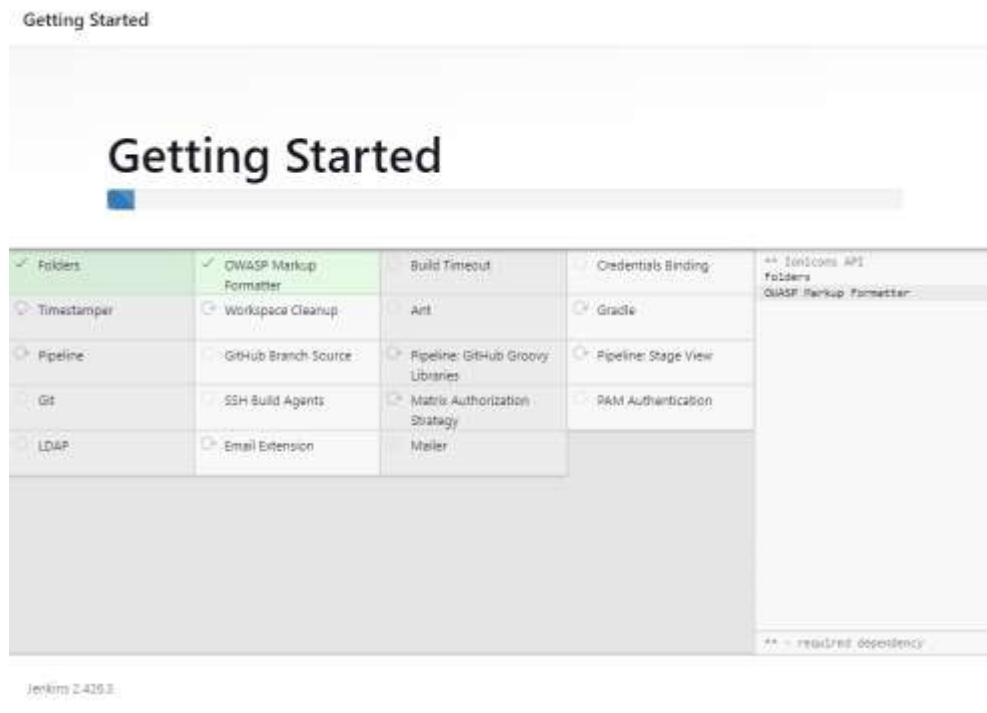
Step 6: Installation is finished



Step 7: Go on localhost:8080



Step 8: Select the options and wait for a few minutes



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](#)

Step 10:

Getting Started

Create First Admin User

Username

Password

Confirm password

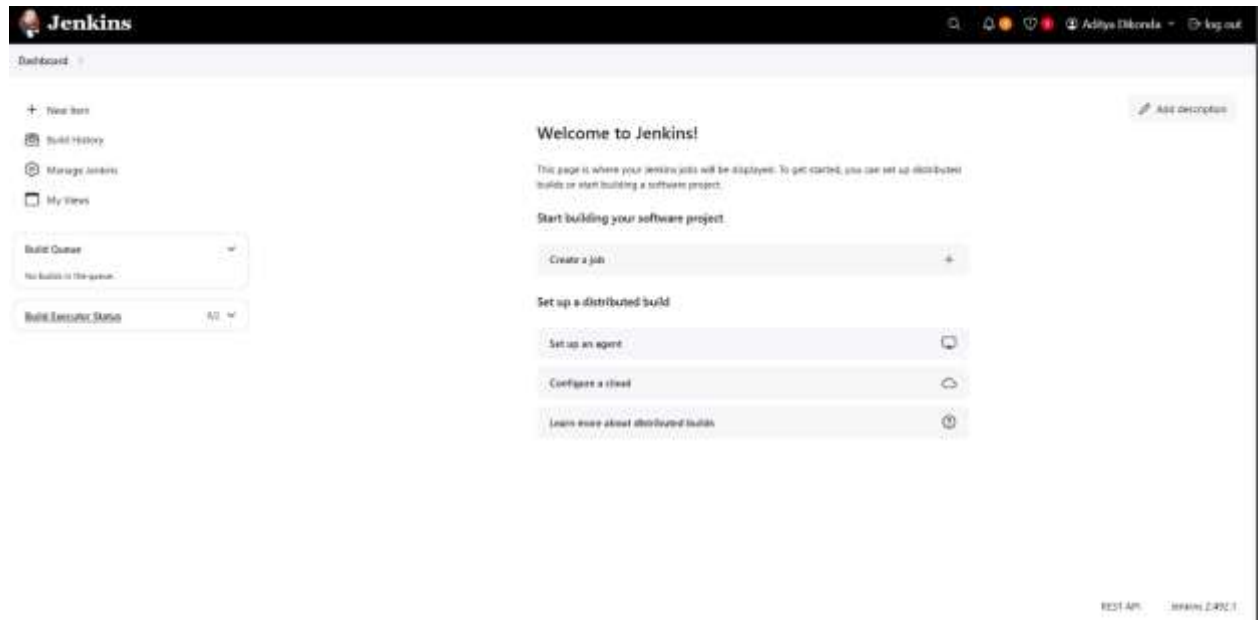
Full name

E-mail address

Jenkins 2.426.3

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

Step 11: Congratulations! You have created your Jenkins account



CONCLUSION:

Jenkins with Maven simplifies Continuous Integration, automating builds and improving project efficiency for faster development cycles and higher software quality.