Name: Jatin Gorana Batch: T12

Roll no: 30

EXPERIMENT – 4

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

THEORY:

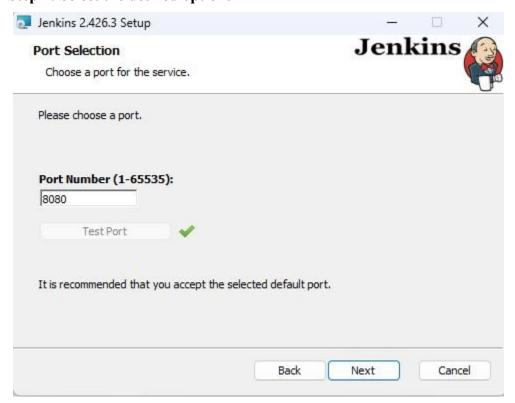
Jenkins is an open-source automation tool written in Java with plugins built for Continuous Integration purpose. Jenkins is used to build and test your software projects continuously making it easier for developers to integrate changes to the project and making it easier for users to obtain a fresh build.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

Jenkins 2.426.3 Setup

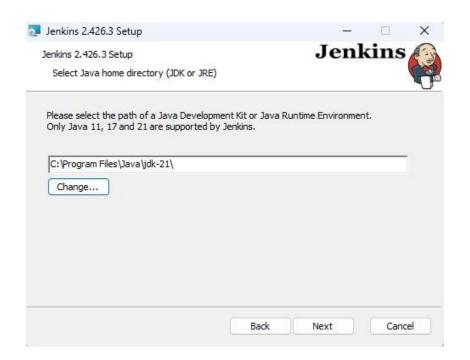
Step 1: Install Jenkins from website



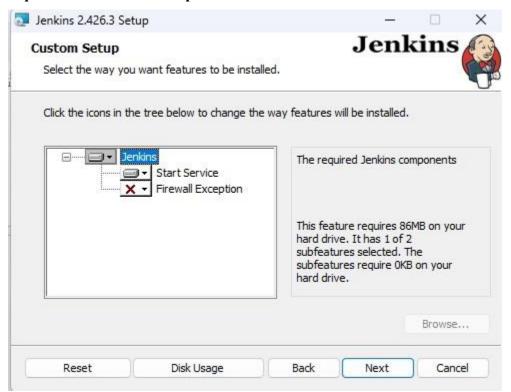
Step 2: Select the desired options



Step 3: Select the files where jdk 21 is installed



Step 4: Select the desired options



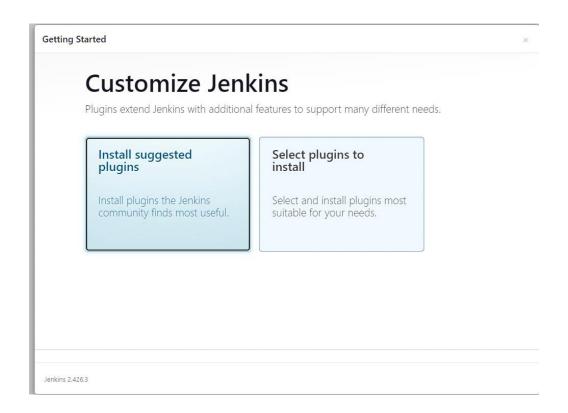
Step 5: Install the file



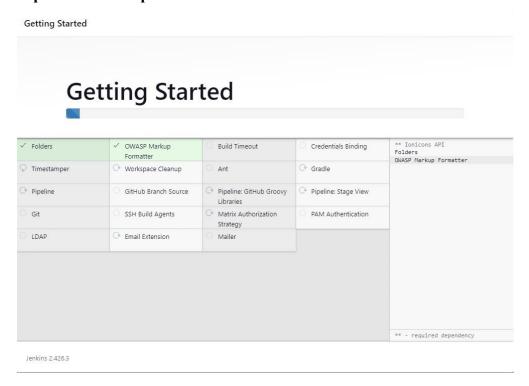
Step 6: Installation is finished



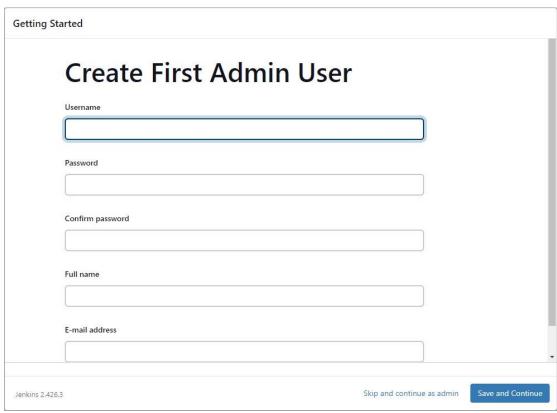
Step 7: Go on localHost:8080



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



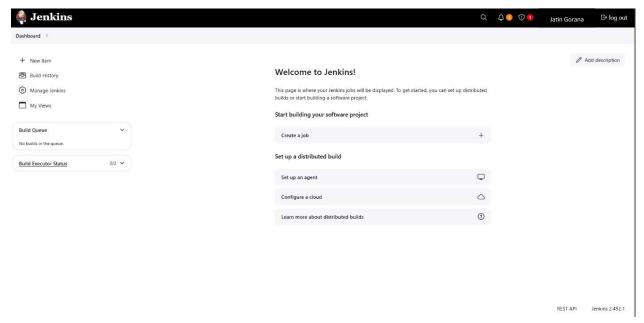
Step 9: Fill the appropriate credentials



Step 10:

Getting Started	
Create First Admin	n User
Jatin Gorana	
Password	
Confirm password	
Full name Jatin Gorana	
E-mail address	
Jatingorana123@gmail.com	
Jenkins 2.492.1	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.