EXPERIMENT – 4

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Batch: T11

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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 simplifies and accelerates the software development lifecycle. By

automating repetitive tasks, it reduces the chance of errors, provides faster

feedback to developers, and enables more frequent software releases. This

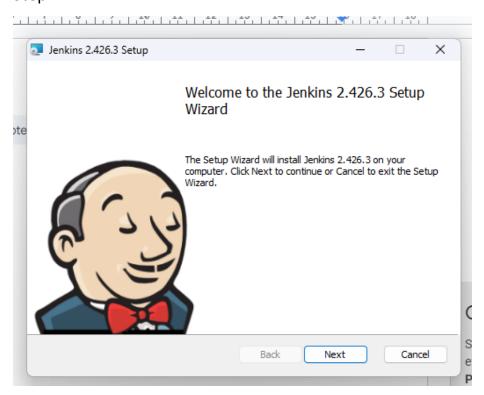
automation helps teams to deliver software more quickly and with higher quality.

It is a valuable tool for any team looking to improve their software development

workflow.

The Steps to install Jenkins and implement the jobs are given below as:

Step 1:



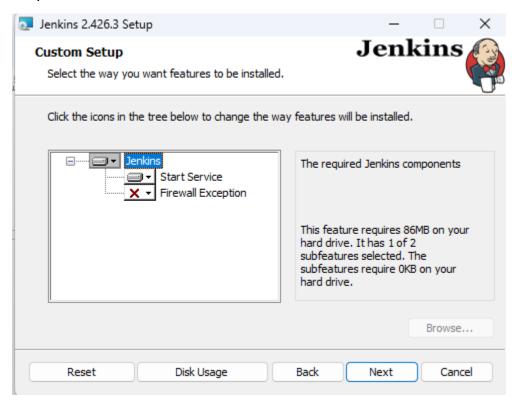
Step 2:



Step 3:



Step 4:



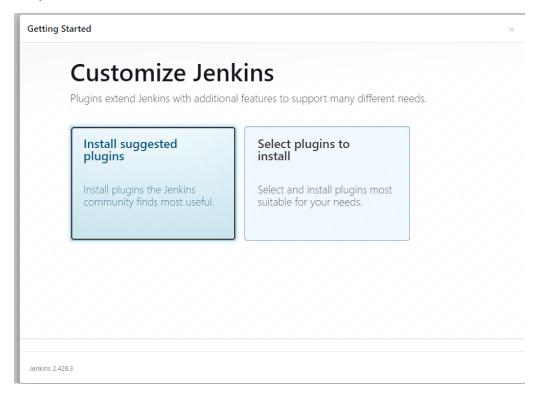
Step 5:



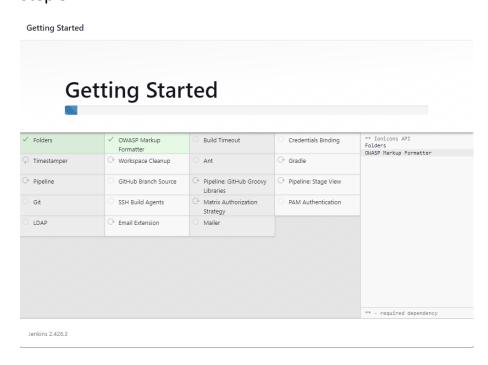
Step 6:



Step 7:



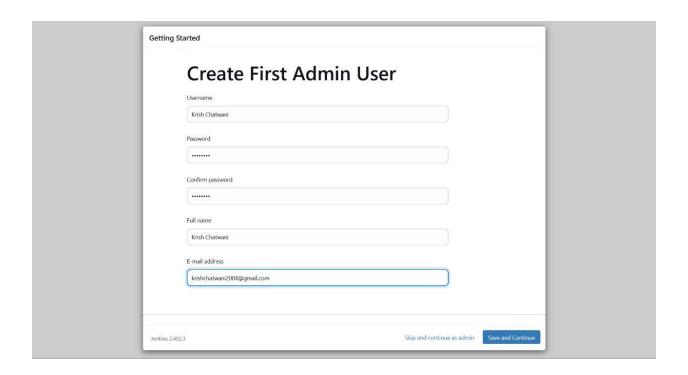
Step 8:



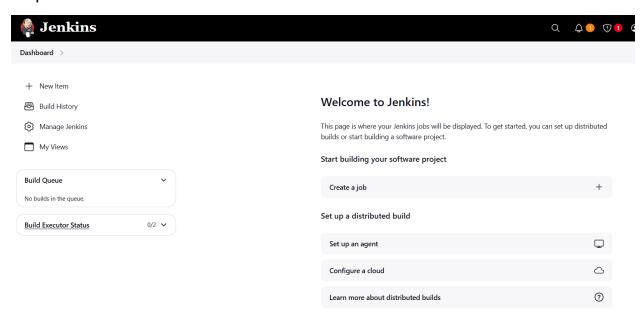
Step 9:

Getting Started			
	Create First Admin User		
	Username		
	Password		
	Confirm password		
	Full name		
	E-mail address		
Jenkins 2.426.3	Skip and continue	e as admin	Save and Continue

Step 10:



Step 11:



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