Continuous Integration CI Process Step By Step:

1. Download Jenkins (link - http://mirror.serverion.com/jenkins/windows-stable/jenkins-2.235.1.zip)

2. Install Jenkins --- Type Dynamic password located in c:program files (C:\Program Files (x86)\Jenkins\secrets\Initial Password)

3.Install first option

4. set your username and password for Jenkins

5.Go To Manage Jenkins -- System Configuration -->Global Tool configuration

6. set JDK Installation:

Name :Java

JAVA\_HOME :C:\Program Files\Java\jdk1.8.0\_202

7.Set Git Installation:

Name: Git

Path to Git executable: C:\Program Files\Git\bin\git.exe

8. Maven Path:

Name: Maven

MAVEN\_HOME: C:\Program Files\apache-maven-3.6.3-bin\apache-maven-3.6.3

9.Right click on This PC -- Properties -- Advance Setting --Environment Variable-- upper New -- Set JDK Path

JDK Path:

Variable Name : JAVA-HOME

Variable Value: C:\Program Files\Java\jdk1.8.0\_202

JRE Path:

Variable Name : JRE-HOME

Variable Value: Variable Name : JAVA-HOME

Variable Value: C:\Program Files\Java\jre1.8.0\_241

10.Go To Manage Jenkins -- System Configuration -- Configure System -- Global Properties

Tick the check box of Environment Variable

In List of variables :

Name :JAVA\_HOME

Value : C:\Program Files\Java\jdk1.8.0\_202

then Tick the check box of Tool Locations

11.a.fisrt create project on gitlab (note: please don't select any file like Initialize repository with a README in gitlab)

b.your project available in eclipse then right click on project and click on Team -- share project after that you click on checkbox then click on project.

c.click on create repository and click ok

d.again right click on project and click on team ---> share ----> commit after that you click on commit.

e.you copy path of gitlab project those you create

f.remote name - origin

g.URI is - https://gitlab.com/username/jenkins\_test.git

h.your username and password then click on next ---> next ---> next ---> finish.

Optional if above Process 11 is not working then try this Process (Gitlab :

create project -- Push your eclipse project on gitlab

To push through gitBash:

a. git init

b. git remote add origin "project origin from gitlab"

c. git add .

d. git commit -m "Initial commit"

e. git push -u origin master)

f. Go to git lab under project right side of branch name click on + icon -- New file -- name of New file will be-- Jenkinsfile

g. copy below code which is Changeable in Jenkinsfile:

Jenkinsfile code:

node{

stage('SCM Checkout'){

git 'https://username:J1W6gbhUu\_RQTxodDuBC@gitlab.com/ajha/demo.git'

}

stage('Compile-Package'){

bat 'mvn package'

}

}

h. commit changes

12 . Create Token on gitLab:

Creating a personal access token

You can create as many personal access tokens as you like from your GitLab profile.

\*Log in to GitLab.(Access token)

a. In the upper-right corner, click your avatar and select Settings.

b. On the User Settings menu, select Access Tokens.

c. Choose a name and optional expiry date for the token.

d. Choose the desired scopes.

e. Click the Create personal access token button.

f. Save the personal access token somewhere safe. Once you leave or refresh the page, you won’t be able to access it again.

13.To create A Job in Jenkins click on New Items

14 . New items -- Enter Item name -- Select Project type as Pipeline --ok

15. Go To Job -- left side configure -- write Description -- Pipeline -- Definition-- select Pipeline Script from Scm-- SCM --Git

16 . Repository under Git

Repository URL : https://username:TokenValue@gitlab.com/gitlab\_username/gitLabprojectName.git

then

Save

17. Select Job in Jenkin -- Build Now -- then go to console -- check status of Success and failure of Job