

Roll No: 242466

Date Of Performance: 25/07/2025

Aim: To understand Continuous Integration by installing and configuring Jenkins with Maven to set up a build job

## Part A

```

MINGW64/c:/Windows/system32
=====
|
|                               :?
|                             7PPP~
|       .?.      7BPP~
|     ..JG@~ ^?YGB#BGGBBP5J~.
|   7BPP~GGS?~..    ^?7SG!
|   ?BPP?: :JSPGV:S.J!. IPG~
|   JGY. :JY7JBPP~PQGP: 7&?
| :: :6J ~#GGBGJ78GJ7GQP~? ~G?
| 2&5JB8 :BBGPPGJ ..^B677&07 ?@G~
| 7BPP~GJ ^YSPGB^ JH#GQP: @GG~
| ~PGJ ?GGBJ! ..Y5JJJ! ^GG~#
| ~B# ..B&77BY.l~ ?&##&S~ 5#~YG
| ..BG :^PGGG^GG7JBGG~ 7G~ :?
| ..PB~ !S#GG~GGGG?~7. YGP
| !GP!. ^7^J?!:' ^Y#GG
| ~VP5J!!^.....~5GGYY
| :!75GGGG?B? P#7.
| :PGGG87 :?
| 1717~
| :?
|
|=====

----- Device Specifications -----

Device Name : GhoulDgadget
Processor : AMD Ryzen 5 5500U with Radeon Graphics 2.10 GHz
Installed RAM : 24.0 GB (23.4 GB usable)
Device ID : 3DA8B6D9-1063-4917-BEC4-4DC376BF54D6
Product ID : 00356-24677-39990-AAOEM
System Type : 64-bit operating system, x64-based processor

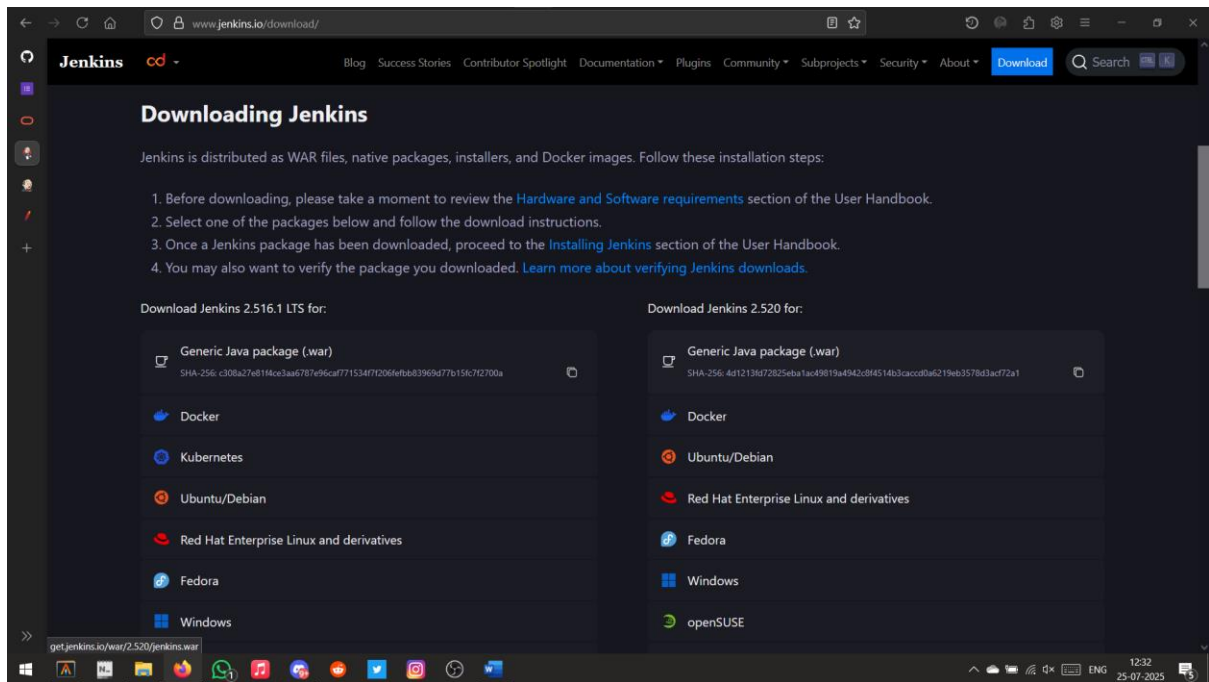
----- Windows -----

Edition : Windows 10 Home Single Language
Version : 22H2
Installed on : 26-05-2025
OS Build : 19045.2965
Experience : Windows Feature Experience Pack 1000.19041.1000.0

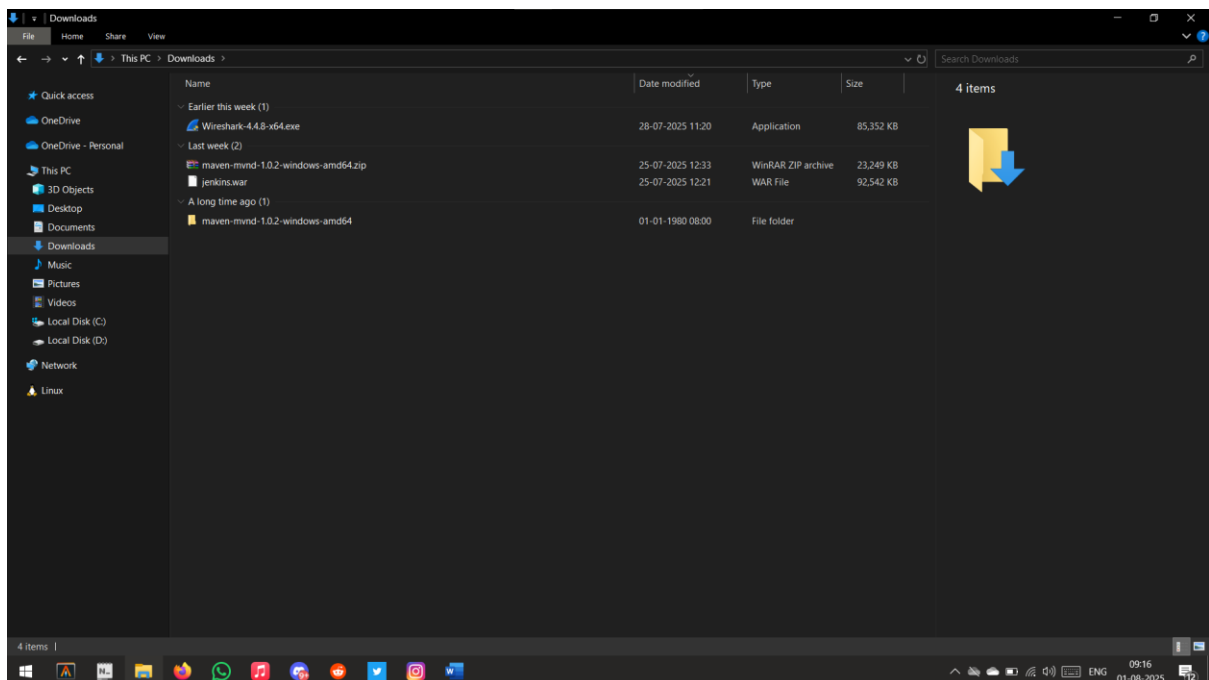

Abdurrahman Qureshi@DESKTOP-H2RVSMQ MINGW64 /c:/Windows/system32
$ java --version
java 17.0.12 2024-07-16 LTS
Java(TM) SE Runtime Environment (build 17.0.12+8-LTS-286)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.12+8-LTS-286, mixed mode, sharing)

Abdurrahman Qureshi@DESKTOP-H2RVSMQ MINGW64 /c:/Windows/system32
$ |
```

## Checking JDK/Java Version



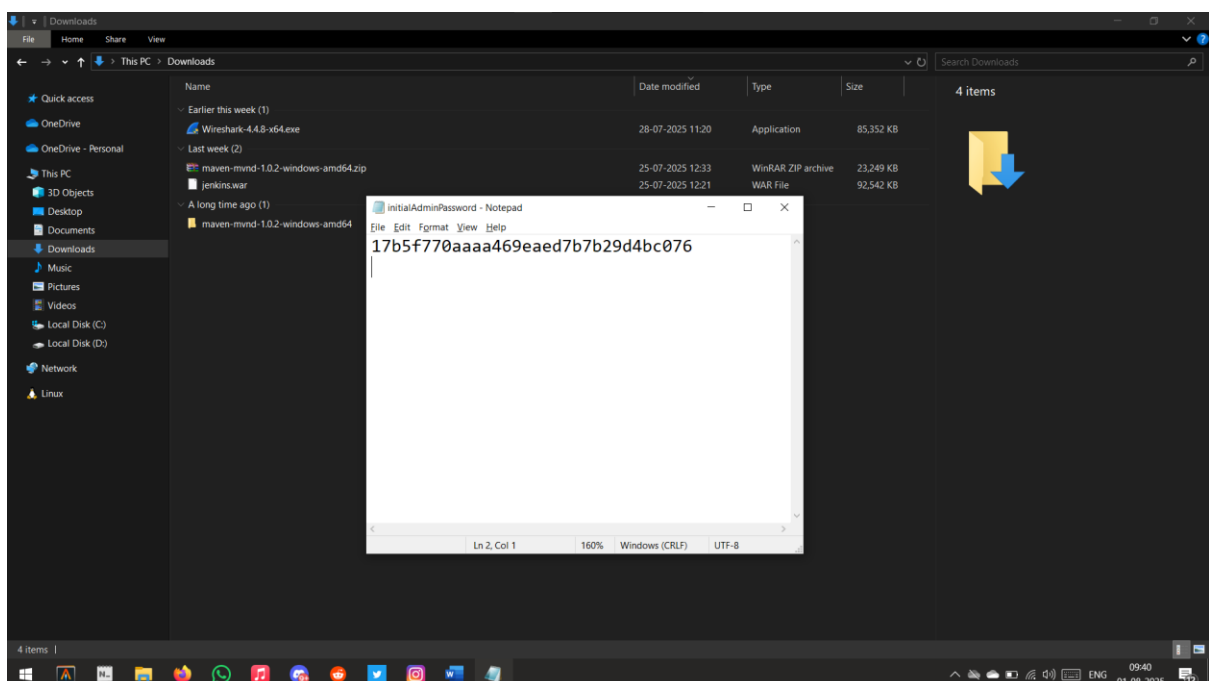
## Downloading Jenkins



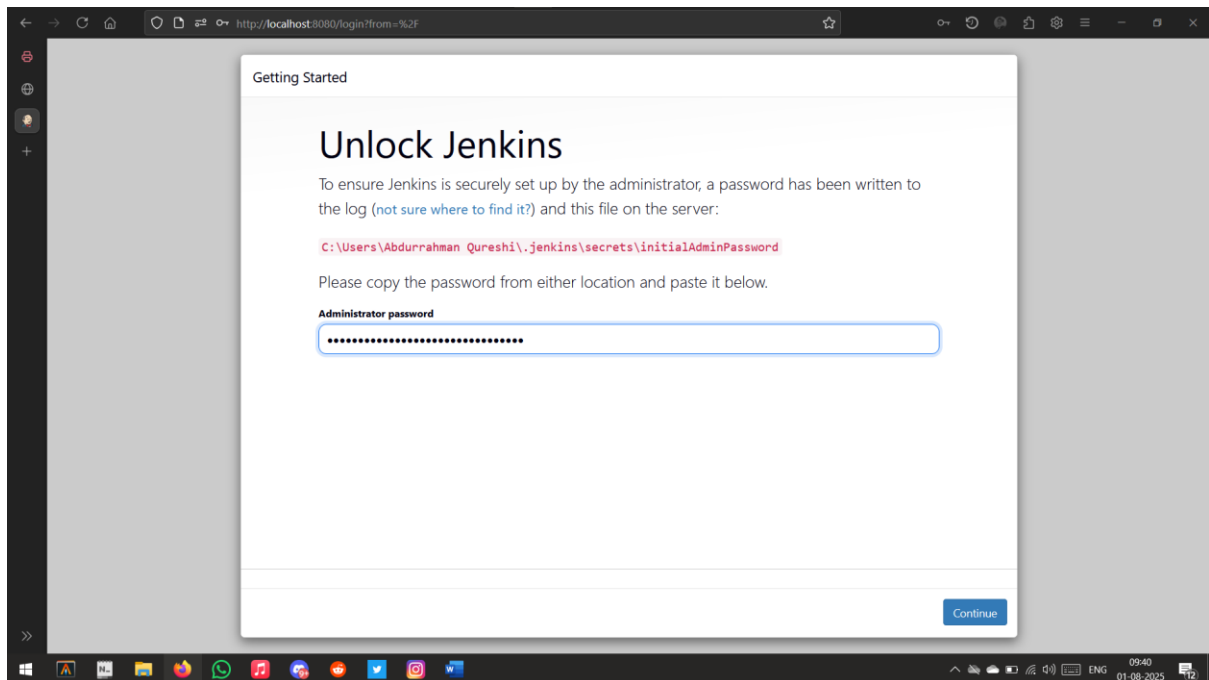
## Jenkins Installed

```
Abdurrahman Qureshi@DESKTOP-H2RVSMQ MINGW64 ~/Downloads
$ java -jar jenkins.war
Running from: C:\Users\Abdurrahman Qureshi\Downloads\jenkins.war
webroot: C:\Users\Abdurrahman Qureshi\jenkins\war
2025-08-01 03:48:27.544+0000 [id=1] INFO winstone.Logger#LogInternal: Beginning extraction from war file
2025-08-01 03:48:27.669+0000 [id=1] WARNING o.e.j.ee9.nested.ContextHandler#setContextPath: Empty contextPath
2025-08-01 03:48:27.796+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-12.0.23; built: 2025-07-02T14:02:02
.445Z; git: 01a4119797e9cee53c974ae126cc316d0c8a533a; jvm 17.0.12+8-LTS-286
2025-08-01 03:48:29.205+0000 [id=1] INFO o.e.j.e.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not
find org.eclipse.jetty.ee9.jsp.JettyJspServlet
2025-08-01 03:48:29.301+0000 [id=1] INFO o.e.j.s.DefaultSessionIdManager#doStart: Session workerName=node0
2025-08-01 03:48:30.233+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: C:\Users\Abdurrahman
Qureshi\jenkins found at: $user.home/.jenkins
2025-08-01 03:48:30.436+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started oeje9n.ContextHandler$CoreContextH
andler@68ed96ca{Jenkins v2.520,,b=file:///C:/Users/Abdurrahman%20Qureshi/.jenkins/war/,a=AVAILABLE,h=oeje9n.ContextHandler$CoreCo
ntextHandler$CoreToNestedHandler@d1310f6{STARTED}}
2025-08-01 03:48:30.474+0000 [id=1] INFO o.e.j.server.AbstractConnector#doStart: Started ServerConnector@1bdaa23d{HTTP/1.1,
(http/1.1)}{0.0.0.0:8080}
2025-08-01 03:48:30.498+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Started oejs.Server@7722c3c3{STARTING}[12
.0.23,sto=0] @3882ms
2025-08-01 03:48:30.500+0000 [id=27] INFO winstone.Logger#LogInternal: Winstone Servlet Engine running: controlPort=disabled
2025-08-01 03:48:30.731+0000 [id=26] INFO jenkins.model.Jenkins#<init>: Starting version 2.520
2025-08-01 03:48:30.902+0000 [id=34] INFO jenkins.InitReactorRunner$1#onAttained: Started initialization
2025-08-01 03:48:31.389+0000 [id=45] INFO jenkins.InitReactorRunner$1#onAttained: Listed all plugins
```

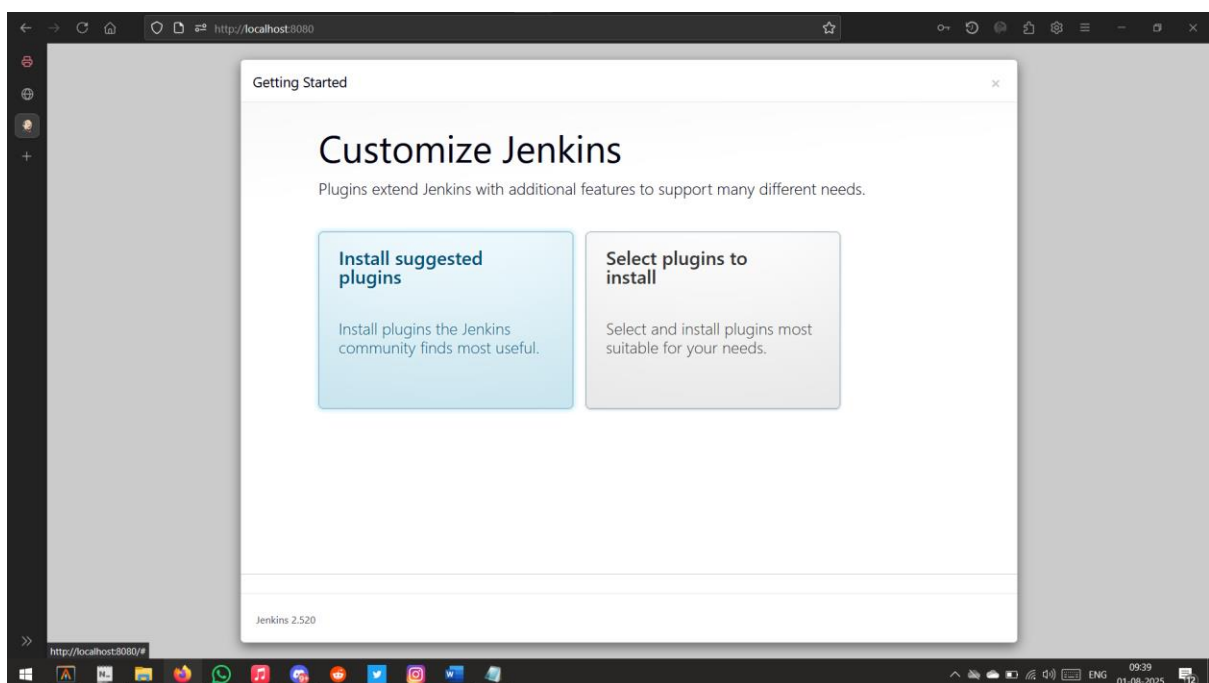
Access Jenkins in Browser (localhost:8080)



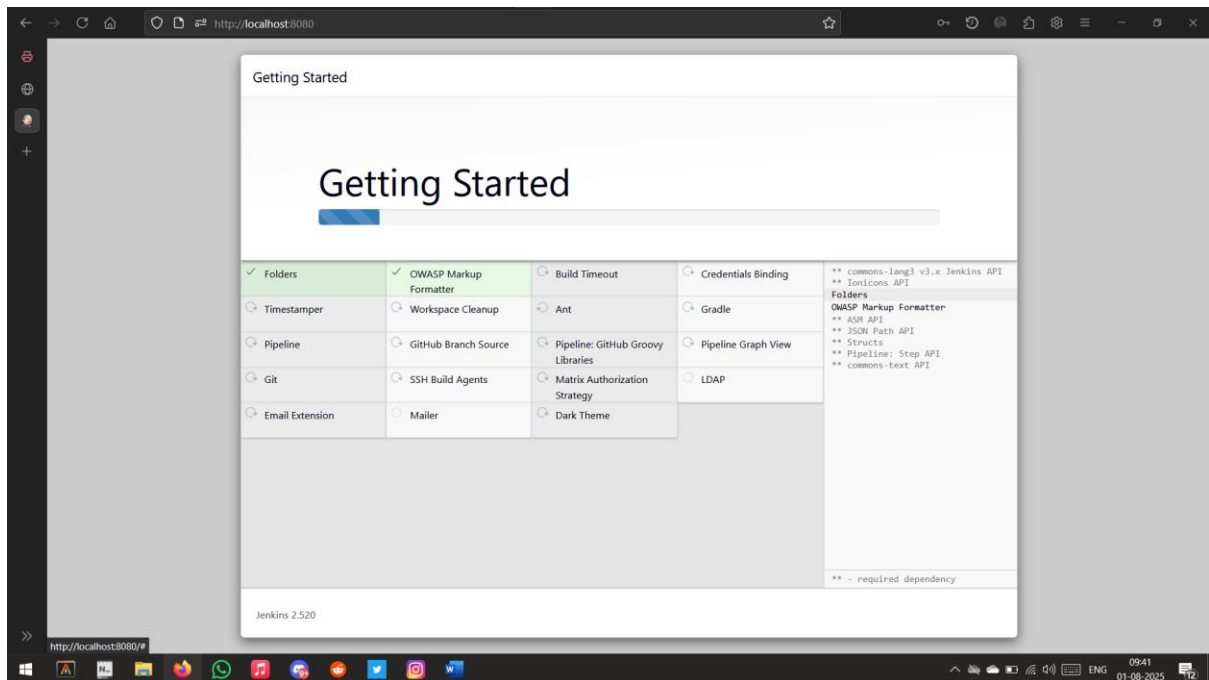
Initial Admin Password



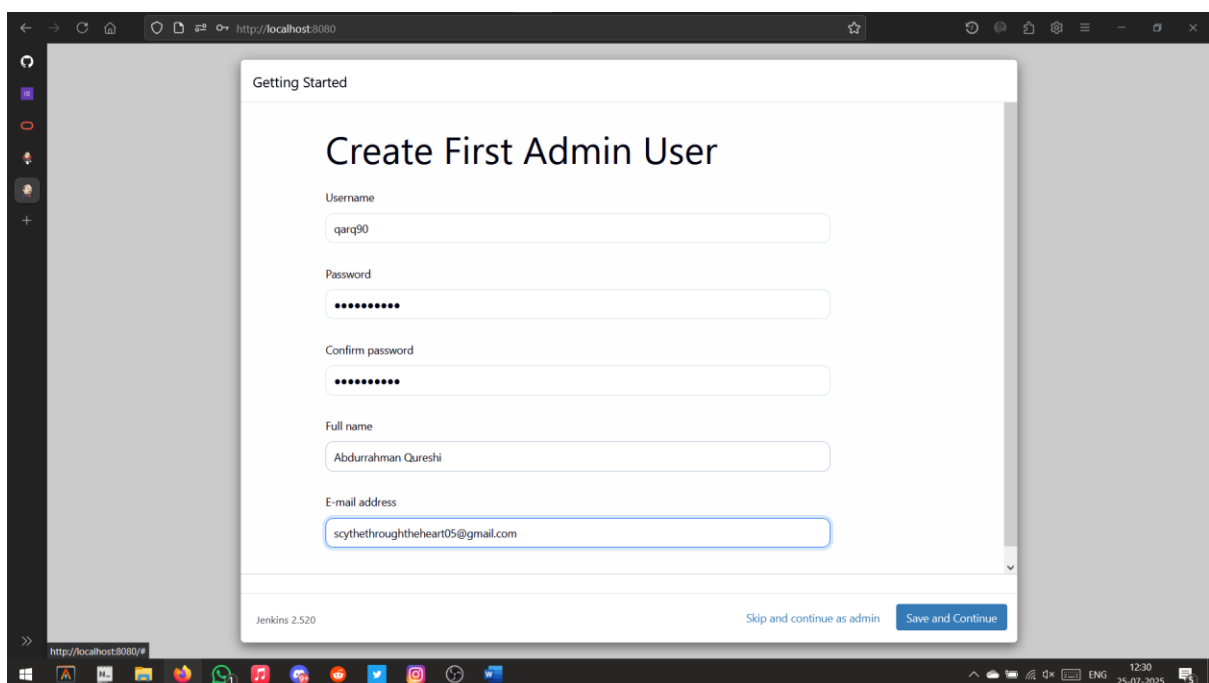
Inputting Password



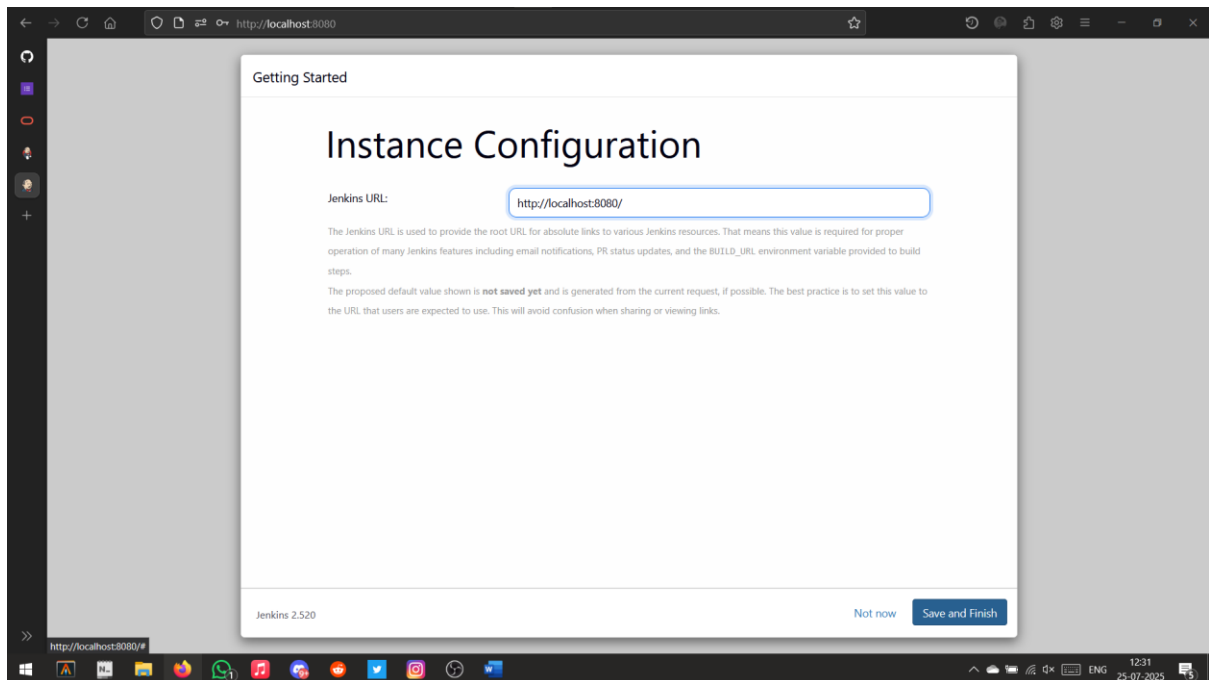
Setting up Plugins



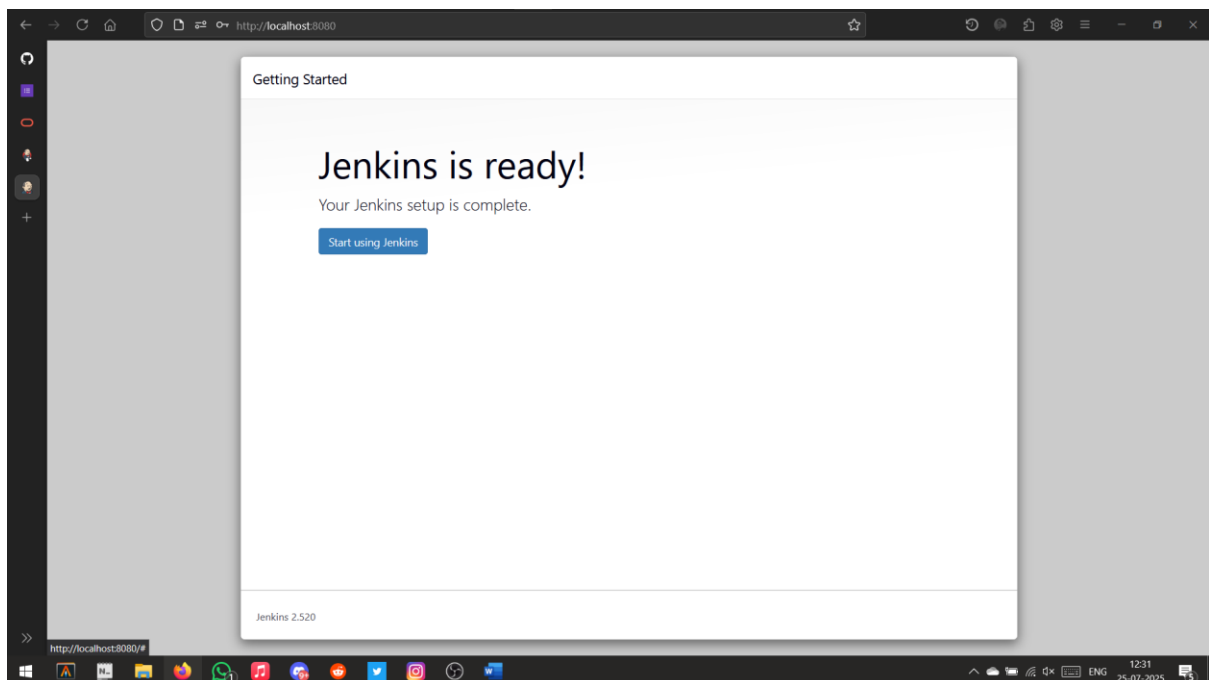
## Installing Plugins



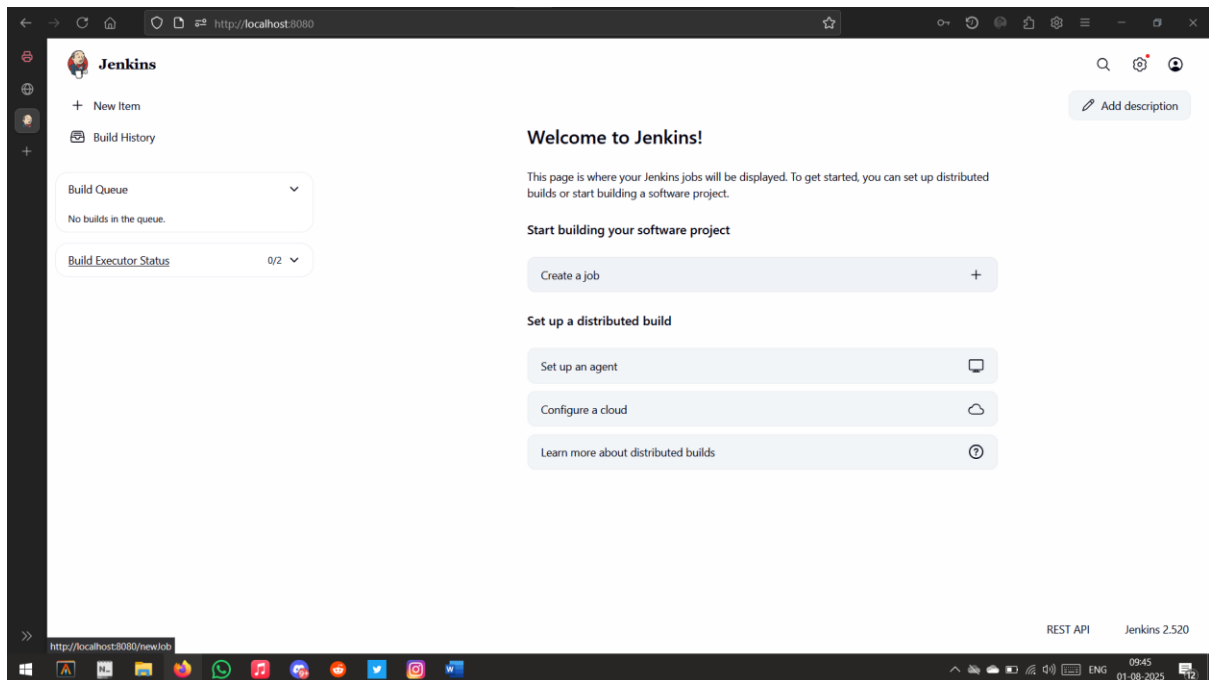
## Setting First Admin User



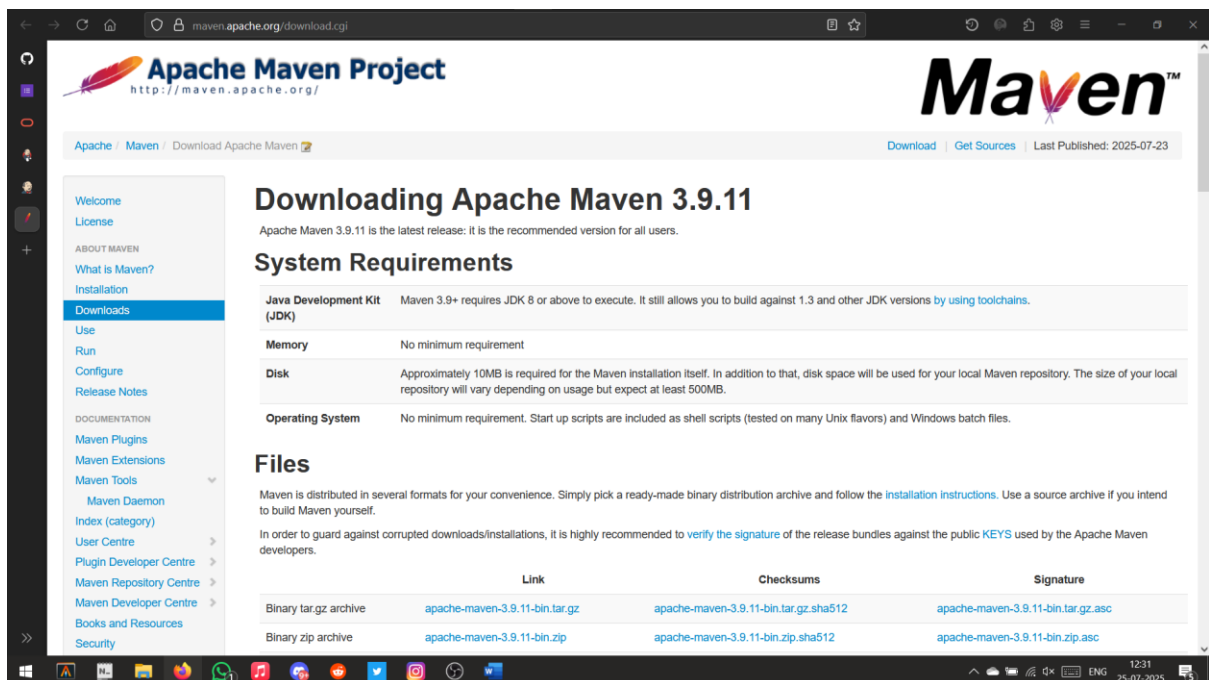
## Setting Instance Configuration



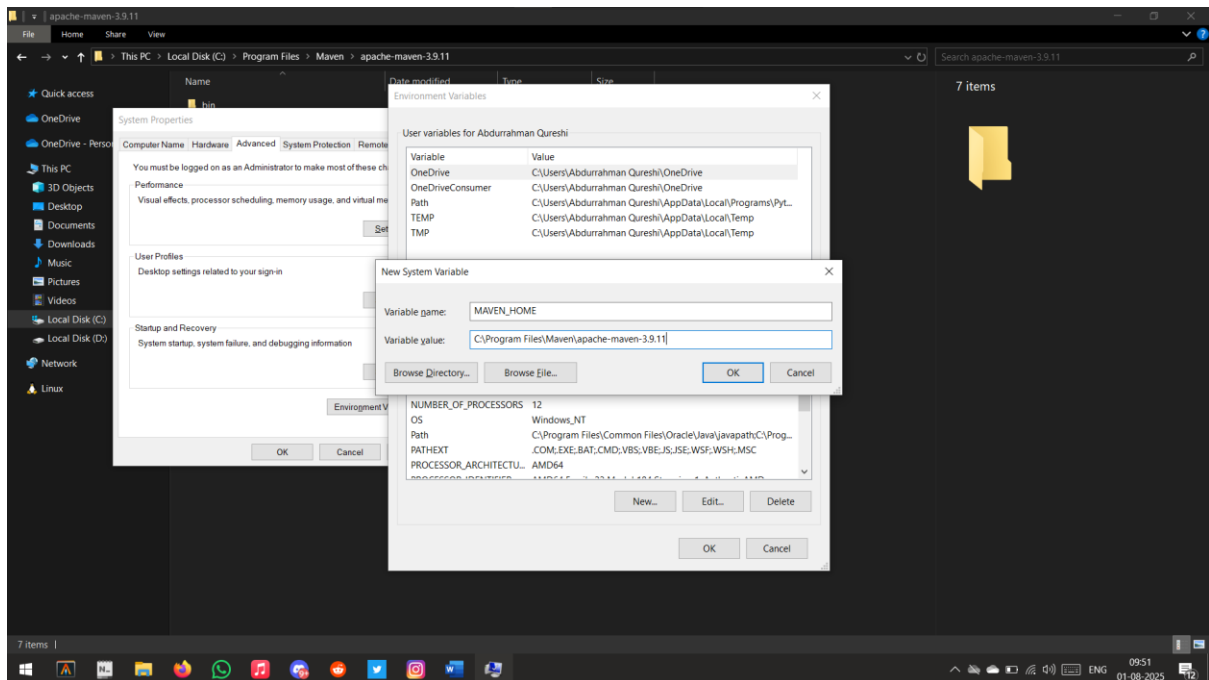
## Setup Successful



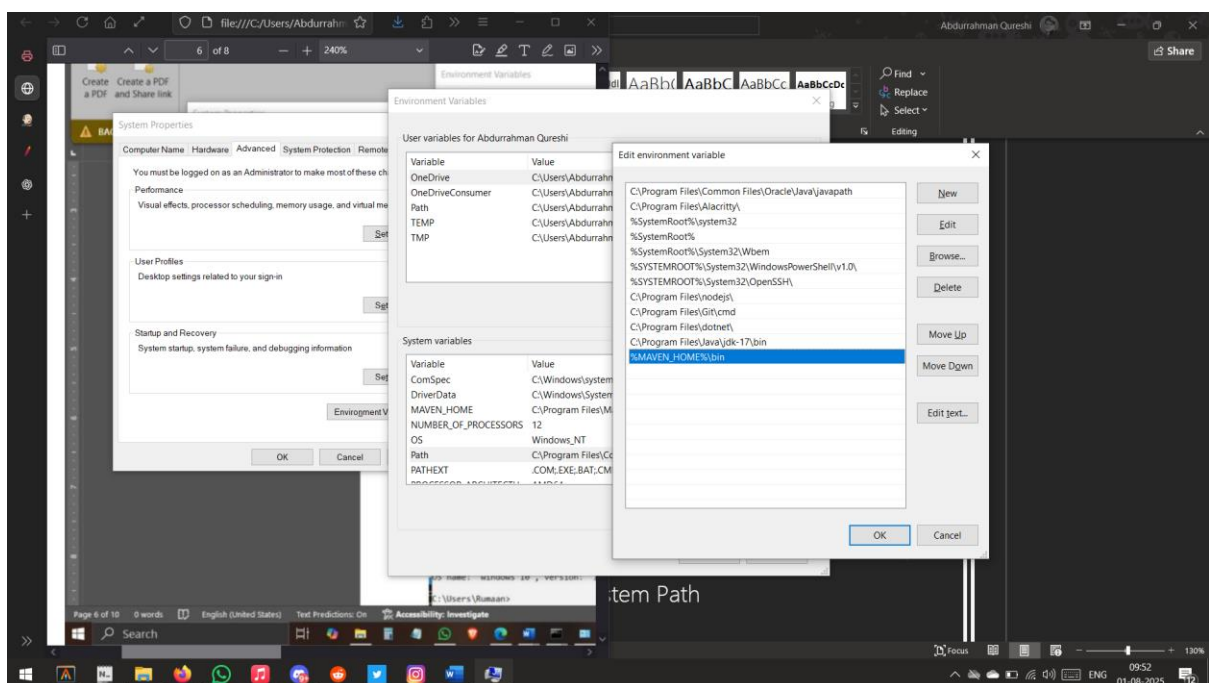
Jenkins Homepage



Downloading Maven



## Setting System Path

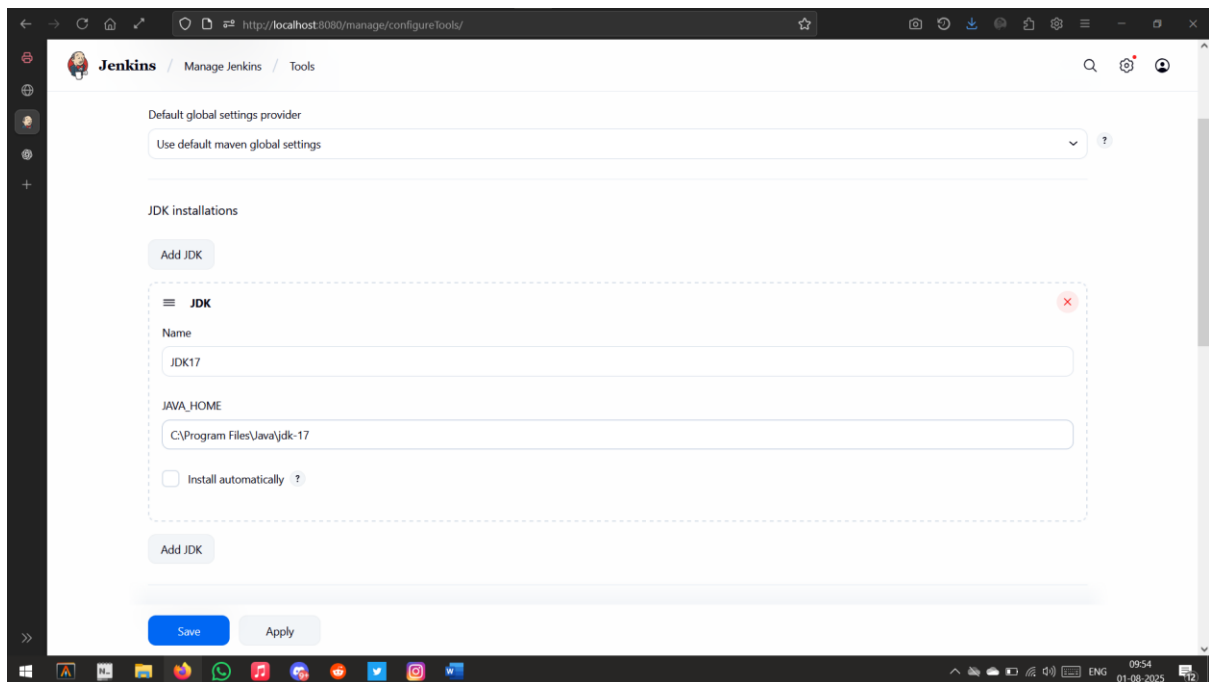


## Setting Environment Path

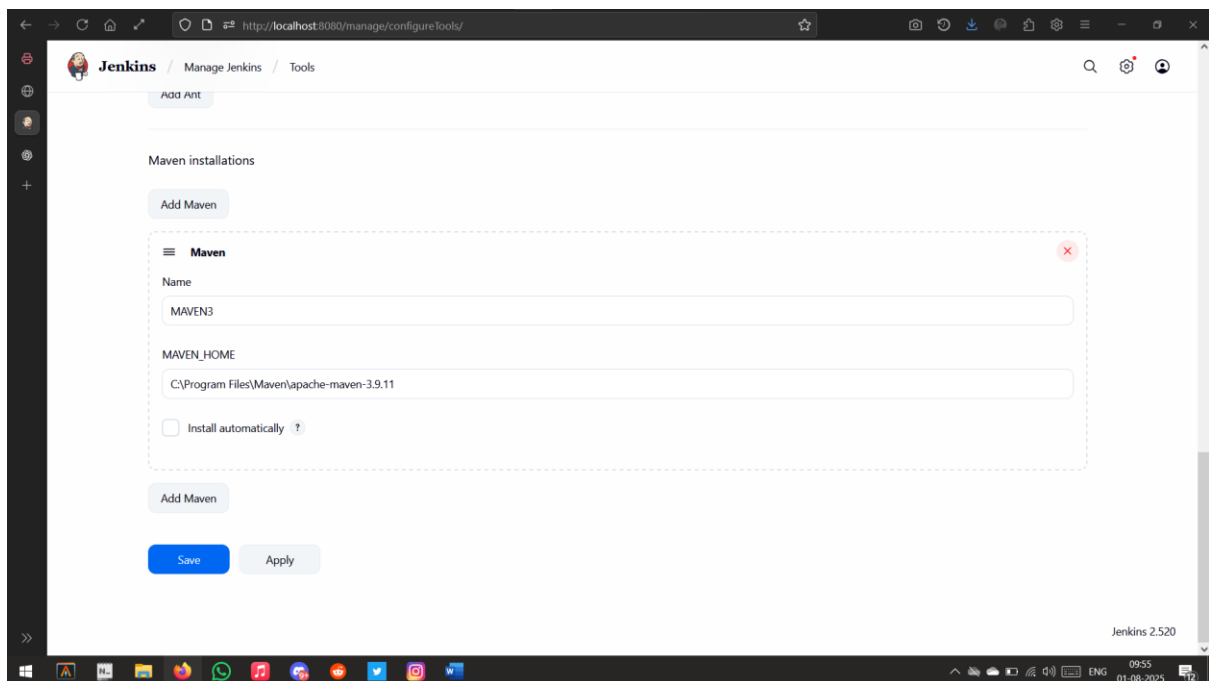




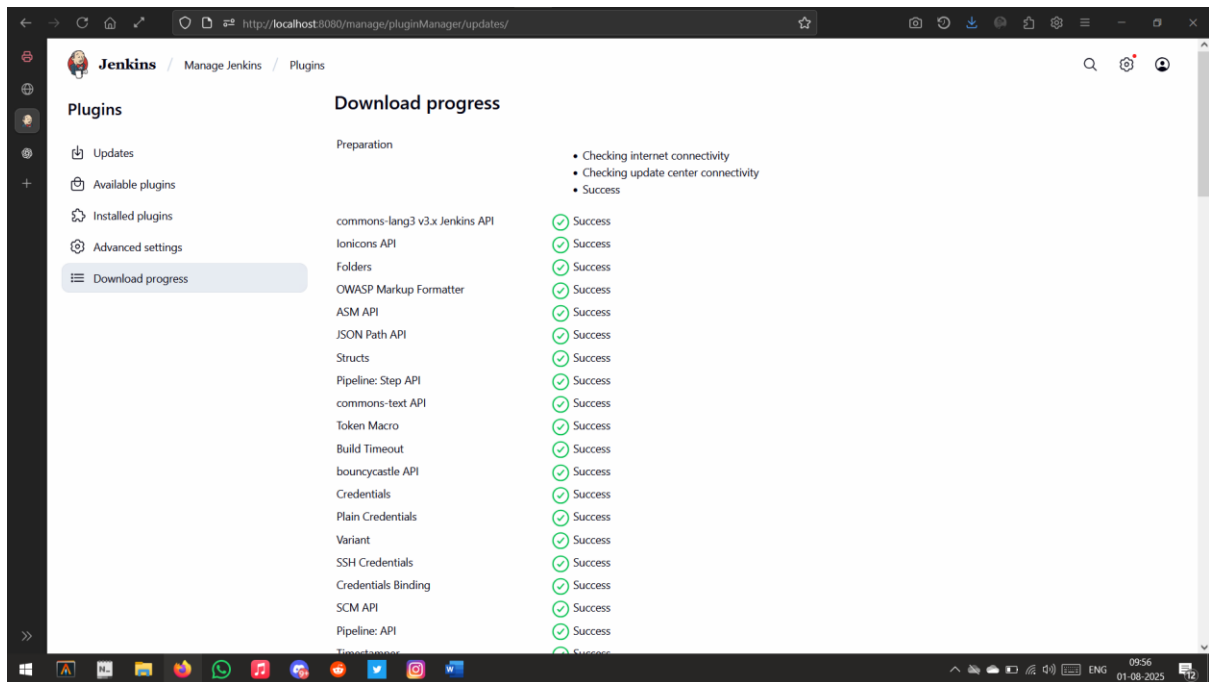
## Part B



## Setting up JDK



## Setting up Maven



## Checking Plugins

Conclusion:

We performed and understood continuous Integration by installing and configuring Jenkins with Maven to set up a build job.