DEVOPS TRAINING

DAY 1 TASK

Step 1:

(Installing Ubuntu**)**

Step 2:

(Set New Password)

Step 3:

(New WSL Window Will Open)
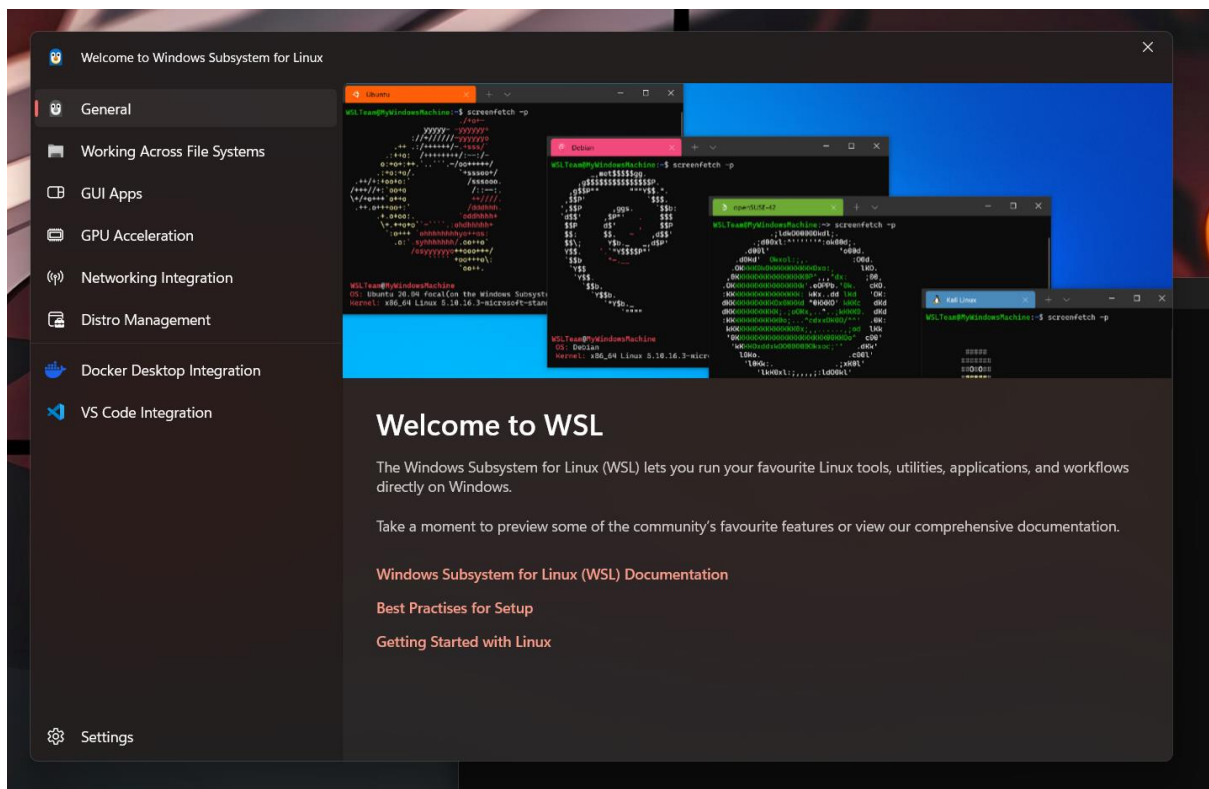
Step 4:

(Check JDK Version) If not available install it .

Step 5:

(Installing Packages)

```
Get:13 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [16.9 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [726 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [146 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:17 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [432 B]
Get:18 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [26.2 kB]
Get:19 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4892 B]
Get:20 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:21 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [448 B]
Get:22 http://archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:23 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
79% [23 Components-amd64 2155 kB/3871 kB 56%]                    Get:24 http://archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:26 http://archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:27 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:28 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:29 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [921 kB]
Get:30 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en [209 kB]
Get:31 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:32 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [13.4 kB]
Get:33 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1040 kB]
Get:34 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [262 kB]
Get:35 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [364 kB]
Get:36 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [25.8 kB]
Get:37 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [759 kB]
Get:38 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [153 kB]
Get:39 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:40 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [464 B]
Get:41 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [30.1 kB]
Get:42 http://archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5884 B]
Get:43 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:44 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [656 B]
Get:45 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:46 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
Get:47 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [14.2 kB]
Get:48 http://archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [12.1 kB]
Get:49 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [20.0 kB]
Get:50 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1256 B]
Get:51 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:52 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:53 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:54 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 32.8 MB in 19s (1707 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
56 packages can be upgraded. Run 'apt list --upgradable' to see them.
student@LAPTOP-1NTAVHGL:~$
```
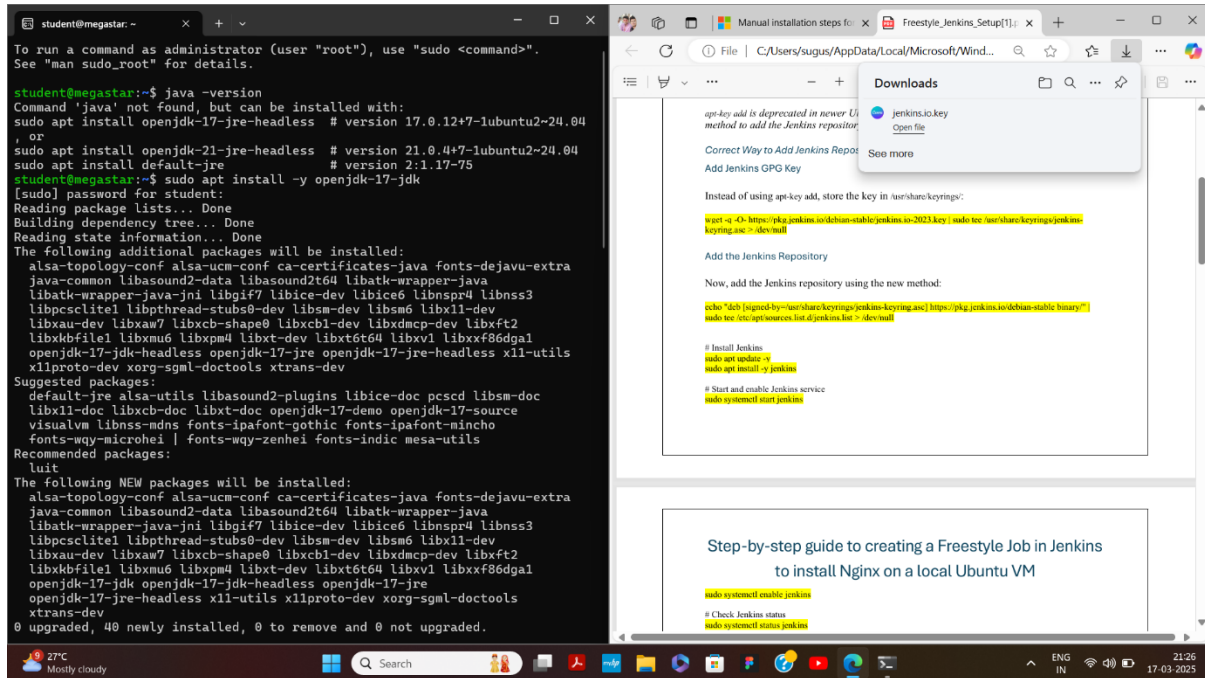
```
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jhsdb to provide /usr/bin/jhsdb (jhsdb) in auto mode
Setting up openjdk-17-jdk:amd64 (17.0.14+7-1~24.04) ...
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jconsole to provide /usr/bin/jconsole (jconsole) in auto mode
student@LAPTOP-1NTAVHGL:~$ java -version
openjdk version "17.0.14" 2025-01-21
OpenJDK Runtime Environment (build 17.0.14+7-Ubuntu-124.04)
student@LAPTOP-1NTAVHGL:~$ wget -q -O -https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-kestudent@LAPTOP-1NTAVHGL:~$ wget -q -O -https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key a
dd -
wget: missing URL
Usage: wget [OPTION]... [URL]...

Try `wget --help' for more options.
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
gpg: no valid OpenPGP data found.
student@LAPTOP-1NTAVHGL:~$ wget -q -O- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee/usr/share/keyrings/jenkins-keyring.asc>/dev/null
sudo: tee/usr/share/keyrings/jenkins-keyring.asc: command not found
student@LAPTOP-1NTAVHGL:~$ wget -q -O-https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo te
e/usr/share/keyrings/jenkins-keyring.asc>/dev/null
wget: missing URL
Usage: wget [OPTION]... [URL]...

Try `wget --help' for more options.
sudo: tee/usr/share/keyrings/jenkins-keyring.asc: command not found
student@LAPTOP-1NTAVHGL:~$ wget -q -o- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo t
ee/usr/share/keyrings/jenkins-keyring.asc>/dev/null
sudo: tee/usr/share/keyrings/jenkins-keyring.asc: command not found
student@LAPTOP-1NTAVHGL:~$ wget -q -O- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo t
ee /usr/share/keyrings/jenkins-keyring.asc>/dev/null
student@LAPTOP-1NTAVHGL:~$ echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable binary/" | sudo tee /etc/apt/sources.list.d/jenkins.list> /dev/null
student@LAPTOP-1NTAVHGL:~$ sudo apt update -y
Ign:1 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:2 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:3 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:4 https://pkg.jenkins.io/debian-stable binary/ Packages [28.7 kB]
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:7 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:8 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Fetched 31.6 kB in 2s (17.6 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
56 packages can be upgraded. Run 'apt list --upgradable' to see them.
student@LAPTOP-1NTAVHGL:~$
```

Step 6:

(Installing Jenkins)

Step 7:


```
student@LAPTOP-1NTAVHGL:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
     Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
     Active: active (running) since Mon 2025-03-17 17:37:50 UTC; 3min 55s ago
   Main PID: 2392 (java)
      Tasks: 58 (limit: 9090)
     Memory: 949.5M ()
     CGroup: /system.slice/jenkins.service
             └─2392 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Mar 17 17:37:41 LAPTOP-1NTAVHGL jenkins[2392]: 6513675f53d24271bfec2b0a9121d66e
Mar 17 17:37:41 LAPTOP-1NTAVHGL jenkins[2392]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Mar 17 17:37:41 LAPTOP-1NTAVHGL jenkins[2392]: *************************************************************
Mar 17 17:37:41 LAPTOP-1NTAVHGL jenkins[2392]: *************************************************************
Mar 17 17:37:41 LAPTOP-1NTAVHGL jenkins[2392]: *************************************************************
Mar 17 17:37:50 LAPTOP-1NTAVHGL jenkins[2392]: 2025-03-17 17:37:50.706+0000 [id=55]     INFO     jenkins.InitReactorRunner$1#onAttained: Completed initialization
Mar 17 17:37:50 LAPTOP-1NTAVHGL jenkins[2392]: 2025-03-17 17:37:50.736+0000 [id=33]     INFO     hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
Mar 17 17:37:50 LAPTOP-1NTAVHGL systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
Mar 17 17:37:53 LAPTOP-1NTAVHGL jenkins[2392]: 2025-03-17 17:37:53.053+0000 [id=87]     INFO     h.m.DownloadService$Downloadable#load: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
Mar 17 17:37:53 LAPTOP-1NTAVHGL jenkins[2392]: 2025-03-17 17:37:53.055+0000 [id=87]     INFO     hudson.util.Retrier#start: Performed the action check updates server successfully at the attempt #1
```
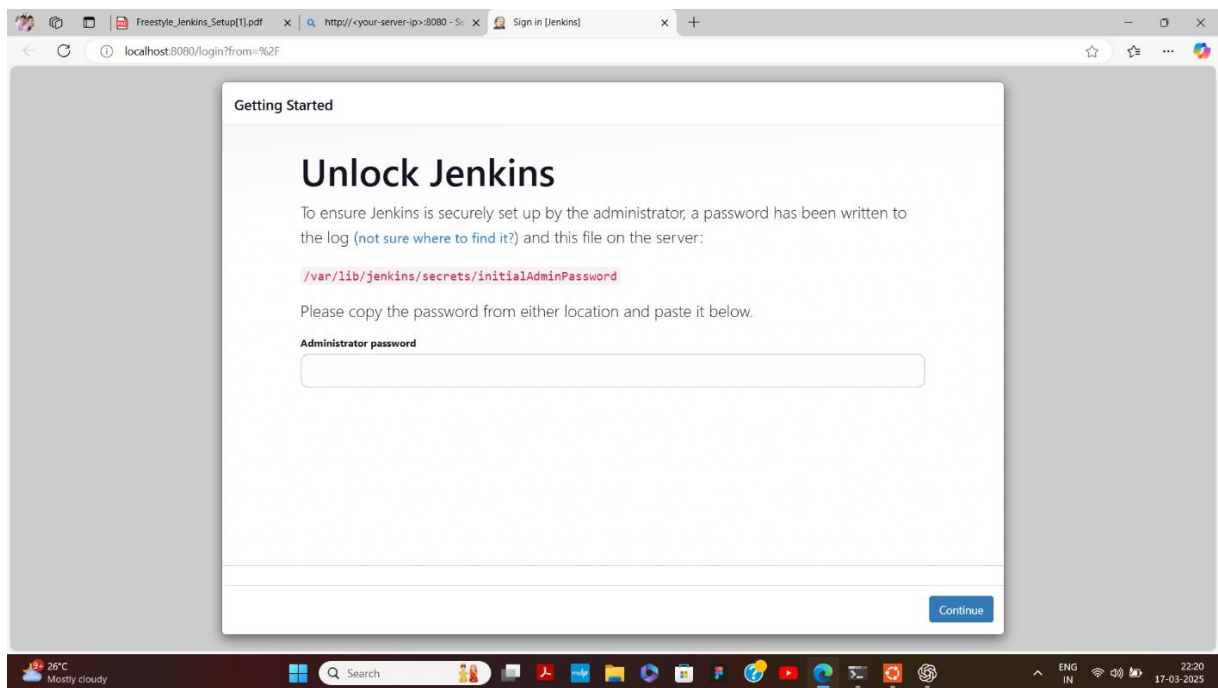
Step 8:

(Enter the Administrator Password**)**
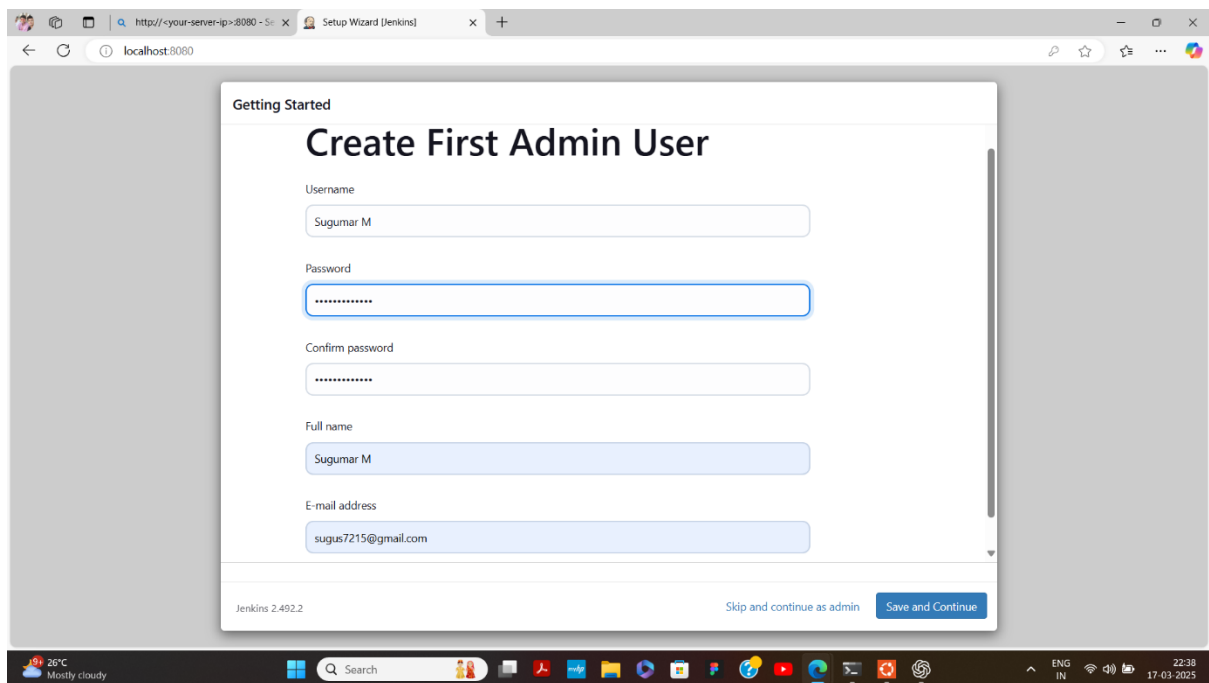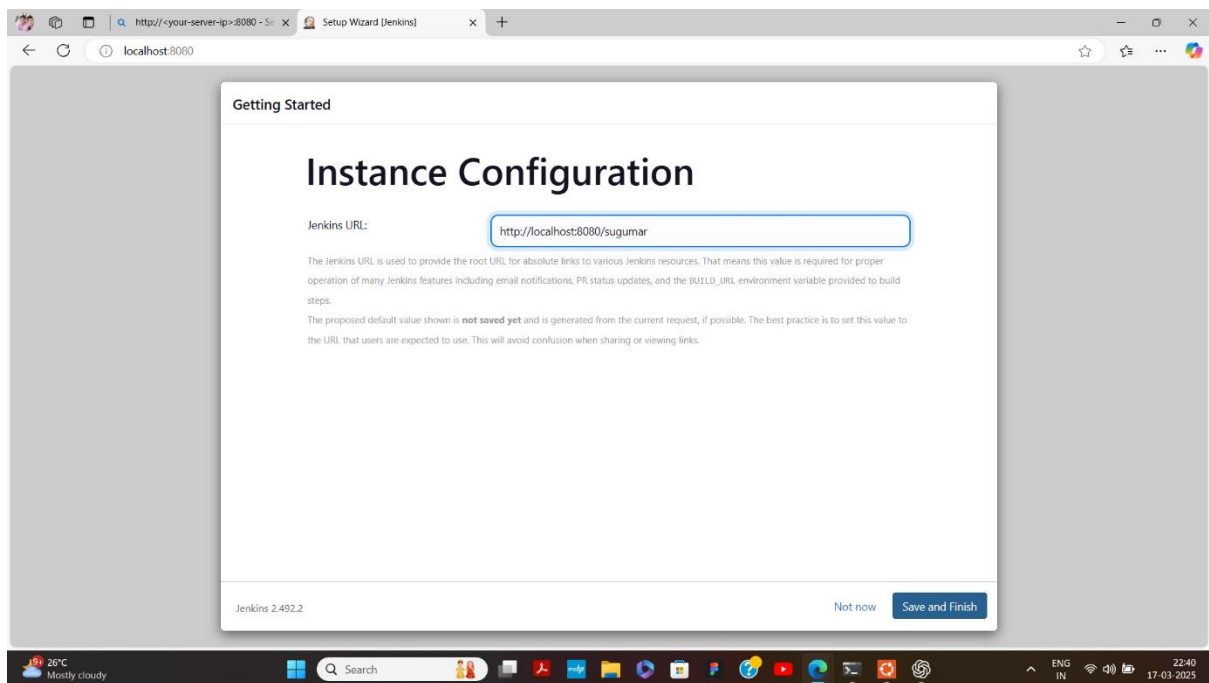
Step 9:
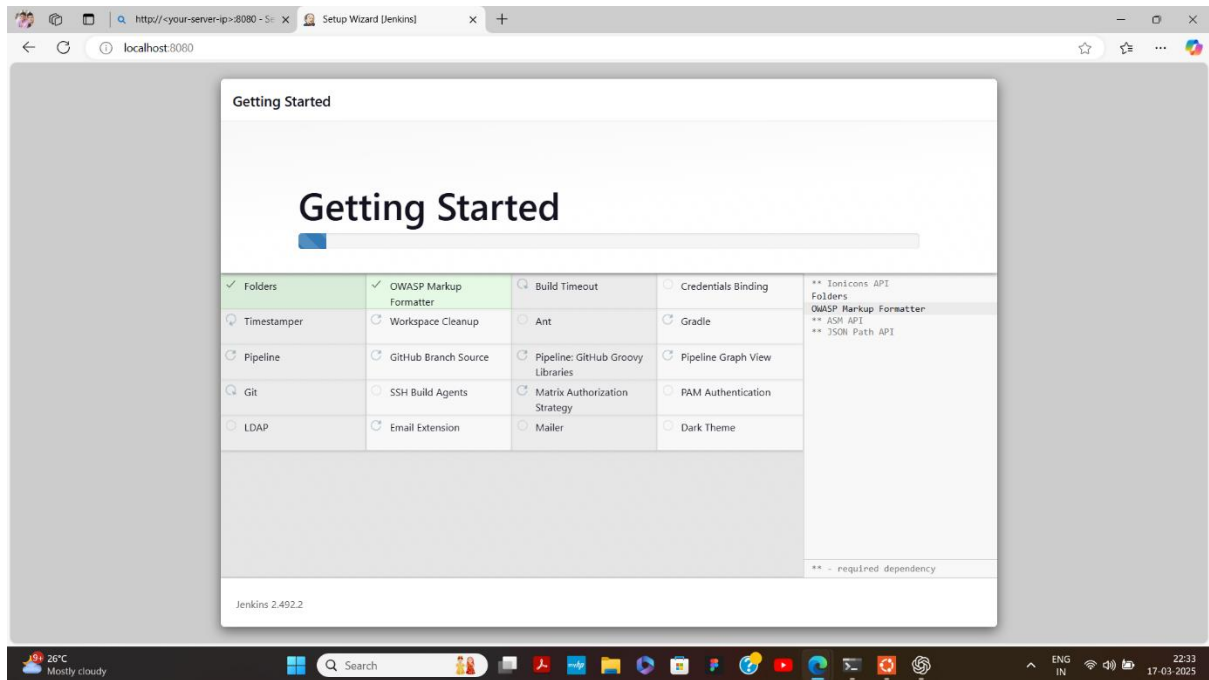
Step 10:

(Create First Admin User)

Step 11:

(Enter the URL**)**

Step 12:

(Create an Project ex:ms**)**

(In Configure build and Select Execute shell**)**

(Build the Project**)**

SELECT BUILD NOW
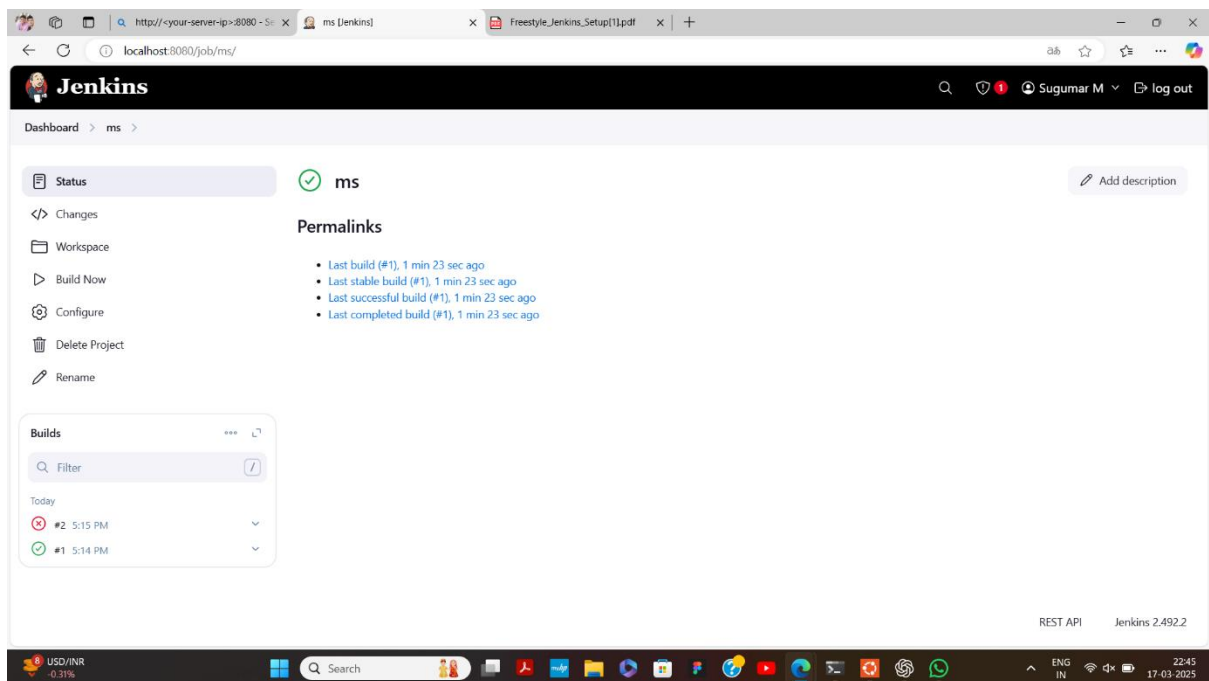
Step 13:

(We can check the output in console output**)**