

Jenkins Installation in WSL

You can follow the original Jenkins documentation for installation.

<https://www.jenkins.io/doc/book/installing/linux/>

Step 1: Open WSL

Step 2: Installation of Java requires first:

`sudo apt update`

```
sudo apt install fontconfig openjdk-21-jre
java -version
openjdk version "21.0.3" 2024-04-16
OpenJDK Runtime Environment (build 21.0.3+11-Debian-2)
OpenJDK 64-Bit Server VM (build 21.0.3+11-Debian-2, mixed mode, sharing)
```

Step 3: Install Jenkins

```
sudo wget -O /etc/apt/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo "deb [signed-by=/etc/apt/keyrings/jenkins-keyring.asc]" \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install jenkins
```

once Jenkins Installed Enable the jenkins service

```
sudo systemctl enable jenkins
```

Then Start jenkins

```
sudo systemctl start jenkins
```

Last check the Status of Jenkins:

```
sudo systemctl status jenkins
```

```

sonam@DESKTOP-4F8ELLU:/mnt/c/Users/NEW$ 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 Sat 2025-05-24 04:01:18 UTC; 38s ago
     Main PID: 4225 (java)
        Tasks: 56 (limit: 4556)
       Memory: 649.4M ()
      CGroup: /system.slice/jenkins.service
              └─4225 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot>

May 24 04:01:08 DESKTOP-4F8ELLU jenkins[4225]: a60ef41a044f458193eb625e45580099
May 24 04:01:08 DESKTOP-4F8ELLU jenkins[4225]: This may also be found at: /var/lib/jenkins/secrets/in>
May 24 04:01:08 DESKTOP-4F8ELLU jenkins[4225]: >
May 24 04:01:08 DESKTOP-4F8ELLU jenkins[4225]: >
May 24 04:01:08 DESKTOP-4F8ELLU jenkins[4225]: >
May 24 04:01:18 DESKTOP-4F8ELLU jenkins[4225]: 2025-05-24 04:01:18.532+0000 [id=53] INFO >
May 24 04:01:18 DESKTOP-4F8ELLU jenkins[4225]: 2025-05-24 04:01:18.568+0000 [id=39] INFO >
May 24 04:01:18 DESKTOP-4F8ELLU systemd[1]: Started jenkins.service - Jenkins Continuous Integration >
May 24 04:01:20 DESKTOP-4F8ELLU jenkins[4225]: 2025-05-24 04:01:20.783+0000 [id=77] INFO >
May 24 04:01:20 DESKTOP-4F8ELLU jenkins[4225]: 2025-05-24 04:01:20.784+0000 [id=77] INFO >

```

If you are getting this response means Jenkins server is running: you can see the output at localhost:8080

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

Continue

Here you need to enter password.

Once you copy password from the terminal where you have executed status command then click on continue.

You will be redirected to this screen.

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Click on installed suggested plugins.

Getting Started

✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding	** Credentials ** Plain Credentials ** Variant ** SSH Credentials Credentials Binding ** SCM API ** Pipeline: API ** commons-lang3 v3.x Jenkins API
✓ Timestampers	Workspace Cleanup	Ant	Gradle	Timestampers ** Caffeine API ** Script Security ** JavaBeans Activation Framework (JAF) API ** JAXB ** SnakeYAML API ** JSON Api
⌚ Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline Graph View	
⌚ Git	SSH Build Agents	Matrix Authorization Strategy	PAM Authentication	
⌚ LDAP	Email Extension	Mailer	Dark Theme	

Wait until it install all suggested plugins.
and last you will be redirected to getting started screen.

Getting Started

Create First Admin User

Username

Password

Confirm password

Full name

Jenkins 2.504.1

Skip and continue as admin

Save and Continue

add easy credentials like admin admin. save and continue

Getting Started

Instance Configuration

Jenkins URL:

http://localhost:8080/

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Jenkins 2.504.1

Not now

Save and Finish

save and finsh.

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins

click on start Jenkins

The screenshot shows the Jenkins web interface in a browser window. The address bar indicates the URL is localhost:8080. The browser's tab bar shows several open tabs, including Gmail, YouTube, and various development-related sites. The Jenkins interface has a dark header with the Jenkins logo and a user profile 'Sonam Soni' with a 'log out' button. Below the header, the 'Dashboard' is visible. On the left, there's a sidebar with links: '+ New Item', 'Build History', 'Manage Jenkins', and 'My Views'. Below these are two summary boxes: 'Build Queue' showing 'No builds in the queue.' and 'Build Executor Status' showing '0/2'. The main content area is titled 'Welcome to Jenkins!' and contains the text: 'This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.' Below this, there are two sections: 'Start building your software project' with a 'Create a job' button, and 'Set up a distributed build' with a 'Set up an agent' button. An 'Add description' link is also present in the top right of the main content area.