



How to Install Jenkins on Ubuntu 24.04

5 minute read

July 8, 2024 by Jeff Wilson



In this blog, we will show you how to install Jenkins on Ubuntu 24.04 OS. Jenkins is an open-source automation server developed to automate software development procedures such as building, testing, and deploying the application. Jenkins is written in Java and it runs in servlet containers such as Apache Tomcat. There are many features and plugins offered by this software such as CI/CD, GIT, SSH Build Agents, email extensions, etc. All these plugins and many others are installed very easily in the installation process of Jenkins.

The process to Install Jenkins on Ubuntu 24.04 is a straightforward process that may take up to 10 minutes. Let's get started!

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Prerequisites to Install Jenkins on Ubuntu 24.04

- A server running Ubuntu 24.04 OS
- User privileges: root or non-root user with sudo privileges
- A server with at least 2 GB of RAM (Our NVMe 2 VPS plan)

Step 1. Update the System

Every fresh install of Ubuntu 24.04 needs the packages to be updated to the latest versions available. To do that execute the following command:

```
sudo apt update -y && sudo apt upgrade -y
```

Step 2. Install Java

Since Jenkins is installed in Java we need to install it first so we can proceed with the Jenkins process of installation. Execute the command below to install Java:

```
sudo apt install openjdk-21-jdk -y
```

Once installed, we can check the Java version with the command below:

```
java -version
```

You should receive the following output:

```
root@host:~# java -version
openjdk version "21.0.3" 2024-04-16
OpenJDK Runtime Environment (build 21.0.3+9-Ubuntu-1ubuntu1)
```





Step 3. Add Jenkins GPG key and Repository

Next step is to add the Jenkins GPG key with the following command:

```
sudo wget -0 /usr/share/keyrings/jenkins-keyring.asc
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
```

Then add the Jenkins repository because it is not added by default in the Ubuntu 24.04 sources list:

```
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
```

Once, the key and the repo are added update the system again and move to the next step of the installation.

```
sudo apt update -y
```

Step 4. Install Jenkins on Ubuntu 24.04

To install Jenkins execute the following command:

```
sudo apt install jenkins -y
```

Once installed, start and enable the Jenkins service:

sudo systemctl start jenkins && sudo systemctl enable jenkins

To check the status of the service:





You should get the following output:

Step 5. Install Apache And Create Apache Configuration

The Apache web server is required, so we can create a reverse proxy in the next step. To install the Apache web server execute the following command:

```
sudo apt install apache2 -y
```

Once installed start and enable the service:

sudo systemctl enable apache2 && sudo systemctl start apache2

Check if the service is up and running:

sudo systemctl status apache2

You should receive the following output:





```
Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Tue 2024-06-11 09:56:04 CDT; 4s ago Docs: https://httpd.apache.org/docs/2.4/
   Process: 12142 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 12145 (apache2)
    Tasks: 6 (limit: 4613)
    Memory: 10.5M (peak: 10.8M)
        CPU: 139ms
    CGroup: /system.slice/apache2.service
```

We need to create an Apache virtual host file and set it up with the reverse proxy directive in order can access the Jenkins via domain name.

Create an Apache configuration file with the following command:

```
touch /etc/apache2/sites-available/jenkins.conf
```

Open it with your favorite text editor and paste the following lines of code:

Save and close the file. Then you need to execute the following commands to enable the Jenkins configuration and some Apache modules:

```
sudo a2ensite jenkins
sudo a2enmod headers
sudo a2enmod rewrite
sudo a2enmod proxy
```





After these commands, if everything is OK, you will be able to access Jenkins via your domain at http://YourDomain.com

Step 6. Finalize Install Jenkins on Ubuntu 24.04

On the first screen, you will be asked for the password to unlock Jenkins. The password can be found by executing the following command on the server:

cat /var/lib/jenkins/secrets/initialAdminPassword

You should receive the password as shown below:

root@host:~# cat /var/lib/jenkins/secrets/initialAdminPassword
24598462a23846c58060fd15ceeb6abe

Enter the password and click on the continue button.

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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

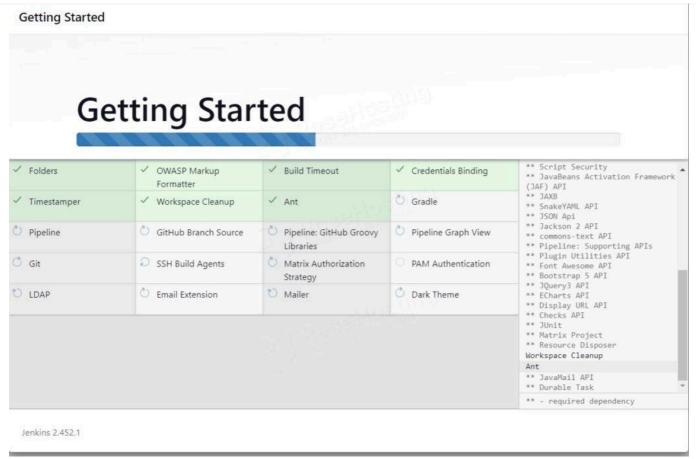
Continue

Then click on the "Install suggested plugins" tab.









Once the installation is complete, you will be asked to enter your username, password, full name, and the email.

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After saving these credentials the next window will be for the URL of your application. This window is to confirm if the domain is correct in the Apache configuration. Click on the "Save and Finish" button.



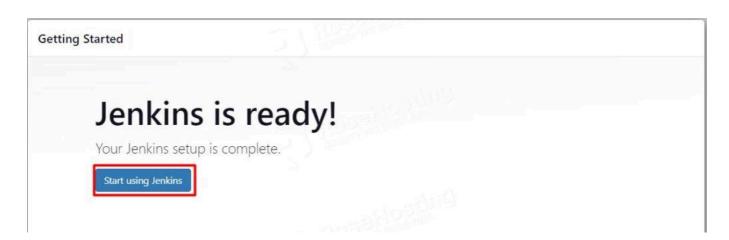


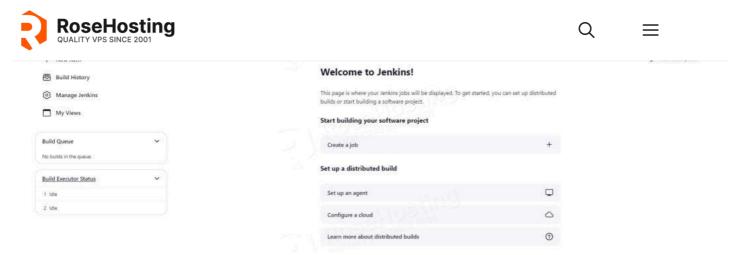


Instance Configuration



After this, there will be a button for "Start using Jenkins". Click on that button and you will be redirected to the Administrator website of Jenkins.





That's it. You learned how to successfully install Jenkins on Ubuntu 24.04. Of course, you do not have to do this on your own. You only need to sign up for one of our NVMe **Ubuntu hosting** plans and submit a support ticket. Our admins will help you with any aspect of the Jenkins installation and configuration on your server.

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