

[Check if you already have Java](#) installed on your Ubuntu system:

```
java -version
```

```
bosko@pnep:~$ java -version
Command 'java' not found, but can be installed with:
sudo apt install openjdk-11-jre-headless # version 11.0.16+8-0ubuntu1~22.04, or
sudo apt install default-jre             # version 2:1.11-72build2
sudo apt install openjdk-18-jre-headless  # version 18~36ea-1
sudo apt install openjdk-8-jre-headless   # version 8u312-b07-0ubuntu1
sudo apt install openjdk-17-jre-headless  # version 17.0.3+7-0ubuntu0.22.04.1
```

Since Java is not installed on our system, we will install it using Open JDK

First, open a terminal window and update the system package repository by running:

```
sudo apt upgrade
```

- To install OpenJDK 11, run:

```
sudo apt install openjdk-11-jdk -y
```

Add Jenkins Repository

Start by importing the GPG key. The GPG key verifies package integrity but there is no output. Run:

```
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null
```

2. Add the Jenkins software repository to the source list and provide the authentication key:

```
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
```

Install Jenkins

1. Update the system repository one more time. Updating refreshes the cache and makes the system aware of the new Jenkins repository.

```
sudo apt update
```

2. Install Jenkins by running:

```
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
/usr/share/keyrings/jenkins-keyring.asc > /dev/null
```

Then add a Jenkins apt repository entry:

```
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
```

Update your local package index, then finally install Jenkins:

```
sudo apt-get update
sudo apt-get install fontconfig openjdk-11-jre
sudo apt-get install jenkins
```

```
bosko@pnep:~$ sudo apt install jenkins -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 12 not upgraded.
Need to get 90.9 MB of archives.
After this operation, 94.4 MB of additional disk space will be used.
Get:2 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1:2.10-0ubuntu1 [204 kB]
Get:1 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.361.2 [90.7 MB]
Fetched 90.9 MB in 6s (14.5 MB/s)
Selecting previously unselected package net-tools.
(Reading database ... 182222 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20181103.0eebece-1ubuntu5_amd64.de
```

```
sudo systemctl status Jenkins
```

```
bosko@pnep:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor prese>
   Active: active (running) since Wed 2022-10-19 07:52:39 EDT; 1min 19s ago
     Main PID: 5048 (java)
       Tasks: 46 (limit: 4625)
      Memory: 1.2G
         CPU: 1min 10.489s
      CGroup: /system.slice/jenkins.service
             └─5048 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java>
```