

# Jenkins

Jenkins adalah alat otomatisasi open-source yang digunakan untuk memfasilitasi berbagai tahapan dalam pengembangan perangkat lunak, termasuk integrasi kode, pengujian otomatis, dan pengiriman aplikasi. Ini memungkinkan tim pengembang untuk secara otomatis membangun, menguji, dan mendeploy perangkat lunak mereka.

## Instalasi Jenkins pada Linux

1. membuat ssh-keygen

# ssh-keygen

```
root@ilmi-virtualbox: ~  
root@ilmi-virtualbox:~# ssh-keygen  
Generating public/private ed25519 key pair.  
Enter file in which to save the key (/root/.ssh/id_ed25519):  
/root/.ssh/id_ed25519 already exists.  
Overwrite (y/n)? y  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /root/.ssh/id_ed25519  
Your public key has been saved in /root/.ssh/id_ed25519.pub  
The key fingerprint is:  
SHA256:wXKoCKj+bAWYKyvXj5kM/hzBDpldErgm3Fr0g0uzqzA root@ilmi-virtualbox  
The key's randomart image is:  
+--[ED25519 256]--+  
|  ..                |  
|. . . o             |  
|+ +. + +           |  
|o=oX + o .         |  
|.o% * S            |  
|o* * o             |  
|Eo=. =             |  
|+=+=. =            |  
|+o++B..            |  
+----[SHA256]-----+  
root@ilmi-virtualbox:~#
```

2. install git

# apt install git

```
root@ilmi-virtualbox:~# apt install git  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
git is already the newest version (1:2.43.0-1ubuntu7.1).  
0 upgraded, 0 newly installed, 0 to remove and 217 not upgraded.  
root@ilmi-virtualbox:~#
```

3. install java

# apt instal java

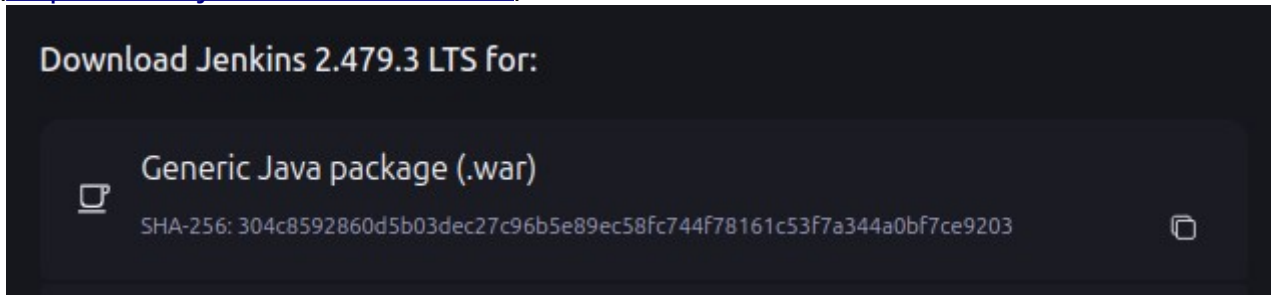
```

root@ilmi-virtualbox:~# apt install openjdk-21-jdk-headless
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openjdk-21-jdk-headless is already the newest version (21.0.5+11-1ubuntu1~24.04)
.
0 upgraded, 0 newly installed, 0 to remove and 217 not upgraded.
root@ilmi-virtualbox:~#

```

4. Download file jenkins yang sudah LTS di browser

(<https://www.jenkins.io/download/>)



Dan klik kanan pada mouse dan copy link adress nya dan masuk terminal ketik:

# wget https://get.jenkins.io/war-stable/2.479.3/jenkins.war

```

root@ilmi-virtualbox:~# wget https://get.jenkins.io/war-stable/2.479.3/jenkins.w
ar
--2025-01-21 21:01:14-- https://get.jenkins.io/war-stable/2.479.3/jenkins.war
Resolving get.jenkins.io (get.jenkins.io)... 20.7.178.24, 2603:1030:408:5::15a
Connecting to get.jenkins.io (get.jenkins.io)|20.7.178.24|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://mirror.freelif.org/jenkins/war-stable/2.479.3/jenkins.war [fol
lowing]
--2025-01-21 21:01:15-- https://mirror.freelif.org/jenkins/war-stable/2.479.3/j
enkins.war
Resolving mirror.freelif.org (mirror.freelif.org)... 66.96.199.63
Connecting to mirror.freelif.org (mirror.freelif.org)|66.96.199.63|:443... conne
cted.
HTTP request sent, awaiting response... 200 OK
Length: 96806970 (92M)
Saving to: 'jenkins.war.1'

jenkins.war.1      100%[=====>]  92.32M   189KB/s   in 7m 18s

2025-01-21 21:08:35 (216 KB/s) - 'jenkins.war.1' saved [96806970/96806970]

root@ilmi-virtualbox:~#

```

5. Lalu jalankan kenkins nya

# java -jar jenkins.war --httpPort=9090 &

```
root@ilmi-virtualbox:~# java -jar jenkins.war --httpPort=9090 &
[1] 5805
root@ilmi-virtualbox:~# Running from: /root/.jenkins.war
webroot: /root/.jenkins/war
2025-01-21 14:10:51.277+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2025-01-21 14:10:51.395+0000 [id=1] WARNING o.e.j.ee9.nested.ContextHandler#setContextPath: Empty contextPath
2025-01-21 14:10:51.471+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-12.0.16; built: 2024-12-09T21:02:54.535Z; git: c3f88bafb4e393f23204dc14dc57b042e84debc7; jvm 21.0.5+11-Ubuntu-1ubuntu124.04
2025-01-21 14:10:52.865+0000 [id=1] INFO o.e.j.e.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.ee9.jsp.JettyJspServlet
2025-01-21 14:10:52.975+0000 [id=1] INFO o.e.j.s.DefaultSessionIdManager#doStart: Session workerName=node0
2025-01-21 14:10:54.089+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: /root/.jenkins found at: $user.home/.jenkins
2025-01-21 14:10:54.461+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started oeje9n.ContextHandler$CoreContextHandler@e041f0c{Jenkins v2.479.3,,b=file:///root/.jenkins/war/,a=AVAILABLE,h=oeje9n.ContextHandler$CoreContext
```

6. Lalu masuk browser dan ketik IP dan port contoh: 192.168.4.8:9090

