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:~# 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/hzBDpldErgm3FrOg0uzqzA 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:~#
```
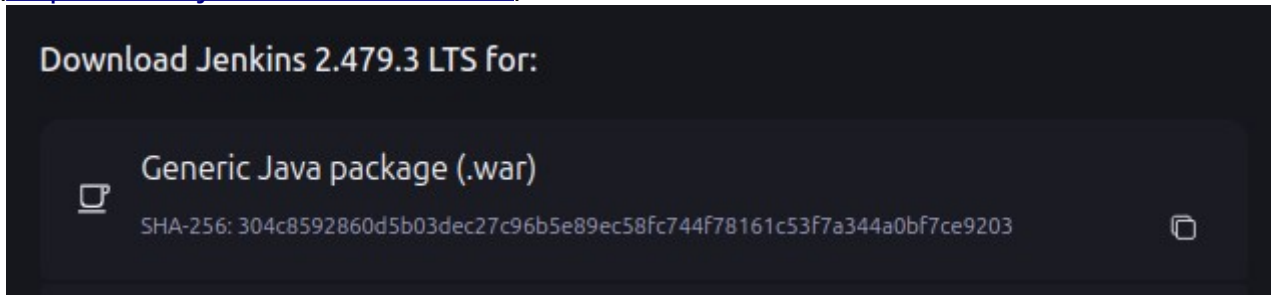
3. install java

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/)

Download Jenkins 2.479.3 LTS for:

Generic Java package (.war)

SHA-256: 304c8592860d5b03dec27c96b5e89ec58fc744f78161c53f7a344a0bf7ce9203

 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.freedif.org/jenkins/war-stable/2.479.3/jenkins.war [fol
lowing]
--2025-01-21 21:01:15--  https://mirror.freedif.org/jenkins/war-stable/2.479.3/j
enkins.war
Resolving mirror.freedif.org (mirror.freedif.org)... 66.96.199.63
Connecting to mirror.freedif.org (mirror.freedif.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 &

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