



# Instalasi Cisco Packet Tracer di GNU/Linux



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Cisco Packet Tracer adalah salah satu software yang digunakan untuk melakukan simulasi network khususnya perangkat yang dibuat oleh cisco.

Tentunya untuk tutorial ini mengacu pada versi terbaru dari cisco packet tracer. Yaitu pada versi 6.3.

## Persiapan Instalasi

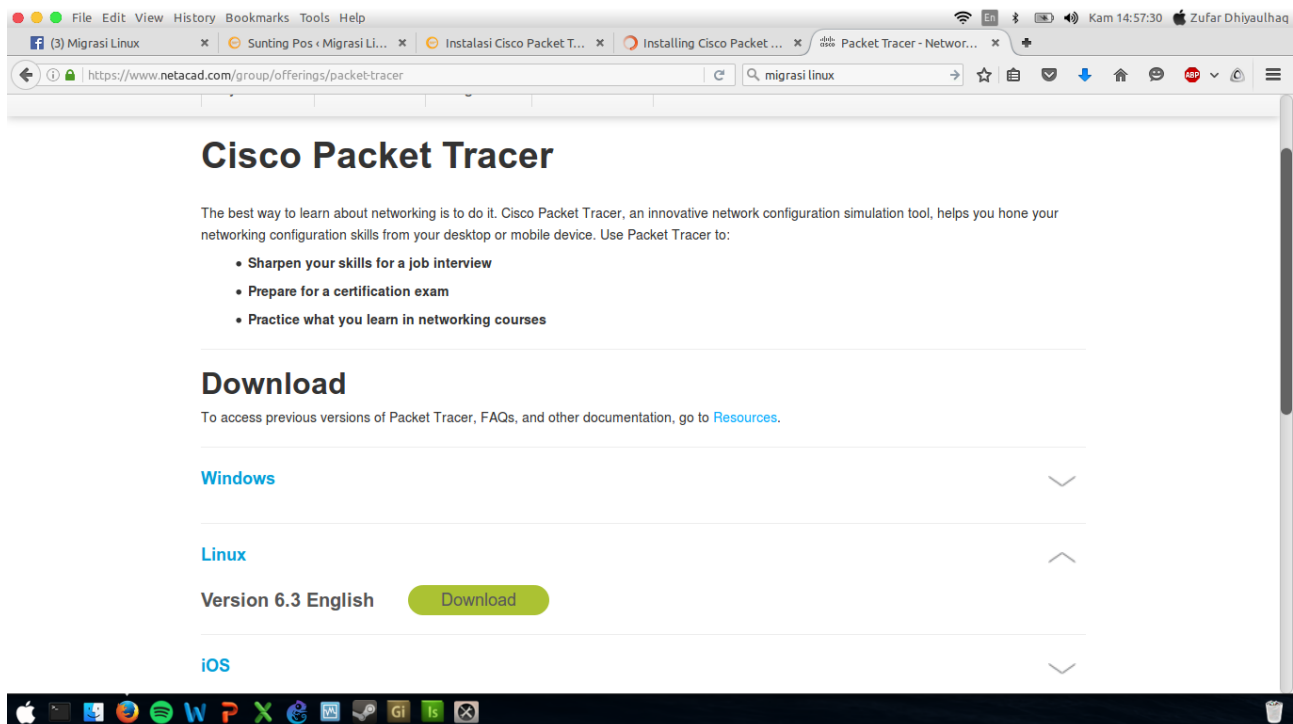
sebelum melakukan proses instalasi, ada beberapa yang harus kalian persiapkan. Diantaranya adalah :

1. file instalasi cisco packet tracer.
2. komputer/laptop dengan operating system GNU/Linux.
3. ruang penyimpanan yang cukup.

Tipe operating system yang saya gunakan adalah **ubuntu 16.04**. silahkan menyesuaikan dengan operating system kamu. Tapi *try on your own risk*.

## Langkah Instalasi

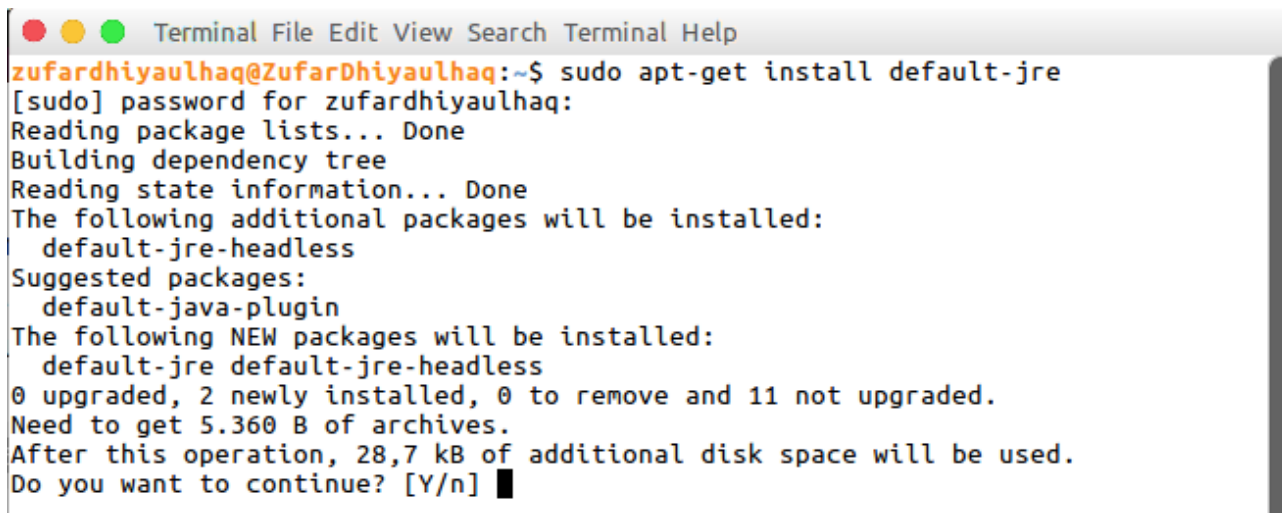
**Langkah 1** : unduh file instalasi cisco packet tracer di website resmi cisco academy (<http://www.netacad.com>).



## Langkah 2 : Install Java

kita dapat menginstall java secara mudah melalui terminal dengan menggunakan default repository dengan perintah

```
sudo apt-get install default-jre
```



```
Terminal File Edit View Search Terminal Help
zufardhiyaulhaq@ZufarDhiyaulhaq:~$ sudo apt-get install default-jre
[sudo] password for zufardhiyaulhaq:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 default-jre-headless
Suggested packages:
 default-java-plugin
The following NEW packages will be installed:
 default-jre default-jre-headless
0 upgraded, 2 newly installed, 0 to remove and 11 not upgraded.
Need to get 5.360 B of archives.
After this operation, 28,7 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

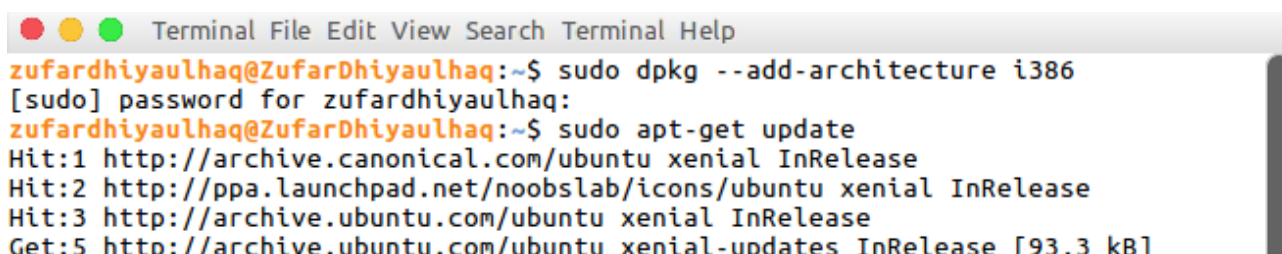
setelah melakukan instalasi, silahkan cek versi java yang telah terinstall

```
java -version
```

## Langkah 3 : mengaktifkan support untuk arsitektur 32 bit.

Packet tracer membutuhkan beberapa paket arsitektur 32 bit. Kita juga akan menginstall beberapa dependensi dengan perintah dibawah

```
sudo dpkg --add-architecture i386
sudo apt-get update
```



```
Terminal File Edit View Search Terminal Help
zufardhiyaulhaq@ZufarDhiyaulhaq:~$ sudo dpkg --add-architecture i386
[sudo] password for zufardhiyaulhaq:
zufardhiyaulhaq@ZufarDhiyaulhaq:~$ sudo apt-get update
Hit:1 http://archive.canonical.com/ubuntu xenial InRelease
Hit:2 http://ppa.launchpad.net/noobslab/icons/ubuntu xenial InRelease
Hit:3 http://archive.ubuntu.com/ubuntu xenial InRelease
Get:5 http://archive.ubuntu.com/ubuntu xenial-updates InRelease [93,3 kB]
```

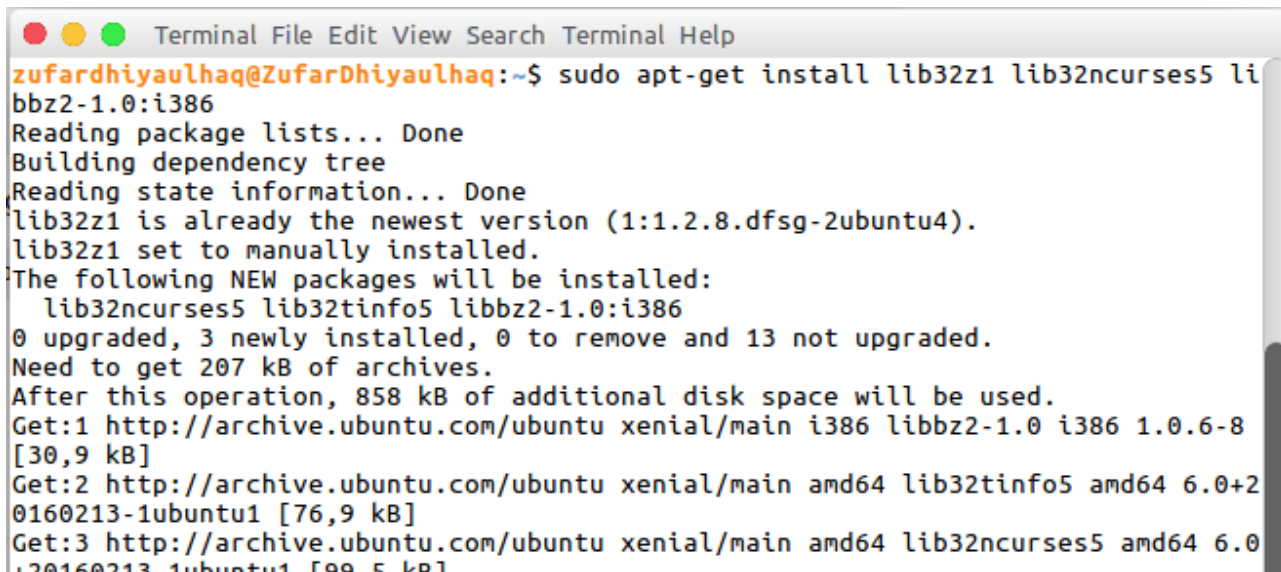
```
sudo apt-get install libc6:i386
```

```
sudo apt-get install lib32z1 lib32ncurses5 libbz2-1.0:i386
```

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```
sudo apt-get install libnss3-1d:i386 libqt4-qt3support:i386 libssl1.0.0:i386  
libqtwebkit4:i386 libqt4-scripttools:i386
```

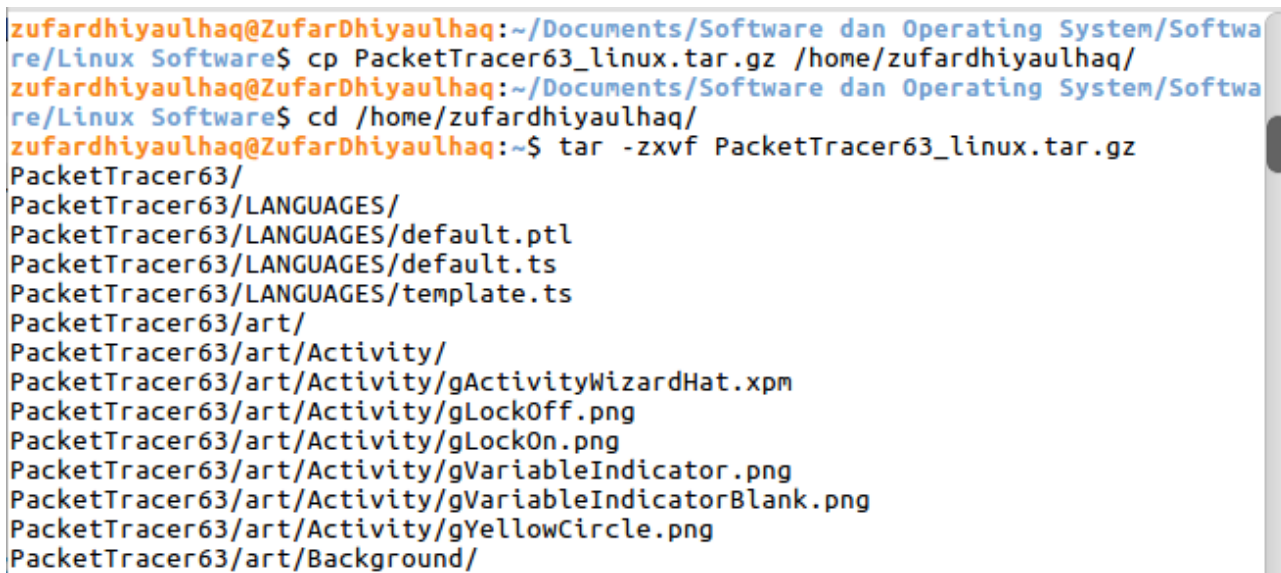
A terminal window screenshot showing the output of a command. The user is 'zufardhiyaulhaq' on a system named 'ZufarDhiyaulhaq'. The command is 'sudo apt-get install lib32z1 lib32ncurses5 libbz2-1.0:i386'. The output shows that lib32z1 is already installed, and the other packages are newly installed. It lists the packages to be installed, the disk space requirements, and the sources from which the packages were fetched.

```
Terminal File Edit View Search Terminal Help  
zufardhiyaulhaq@ZufarDhiyaulhaq:~$ sudo apt-get install lib32z1 lib32ncurses5 li  
bbz2-1.0:i386  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
lib32z1 is already the newest version (1:1.2.8.dfsg-2ubuntu4).  
lib32z1 set to manually installed.  
The following NEW packages will be installed:  
  lib32ncurses5 lib32tinfo5 libbz2-1.0:i386  
0 upgraded, 3 newly installed, 0 to remove and 13 not upgraded.  
Need to get 207 kB of archives.  
After this operation, 858 kB of additional disk space will be used.  
Get:1 http://archive.ubuntu.com/ubuntu xenial/main i386 libbz2-1.0 i386 1.0.6-8  
[30,9 kB]  
Get:2 http://archive.ubuntu.com/ubuntu xenial/main amd64 lib32tinfo5 amd64 6.0+2  
0160213-1ubuntu1 [76,9 kB]  
Get:3 http://archive.ubuntu.com/ubuntu xenial/main amd64 lib32ncurses5 amd64 6.0  
120160213-1ubuntu1 [99,5 kB]
```

**langkah 4 :** ekstrak dan install cisco packet tracer.

Pindah file instalasi ke home foldermu. Perintah dapat menyesuaikan ya. Yang penting dipindah ke home folder.

```
cp PacketTracer63_linux.tar.gz ~  
tar -zxvf PacketTracer63_linux.tar.gz
```

A terminal window screenshot showing the extraction of the PacketTracer63 archive. The user is in the directory ~/Documents/Software dan Operating System/Software/Linux Software. The command 'tar -zxvf PacketTracer63\_linux.tar.gz' is executed, and the contents of the archive are listed, including various files and subdirectories like LANGUAGES, art, and background.

```
zufardhiyaulhaq@ZufarDhiyaulhaq:~/Documents/Software dan Operating System/Softwa  
re/Linux Software$ cp PacketTracer63_linux.tar.gz /home/zufardhiyaulhaq/  
zufardhiyaulhaq@ZufarDhiyaulhaq:~/Documents/Software dan Operating System/Softwa  
re/Linux Software$ cd /home/zufardhiyaulhaq/  
zufardhiyaulhaq@ZufarDhiyaulhaq:~$ tar -zxvf PacketTracer63_linux.tar.gz  
PacketTracer63/  
PacketTracer63/LANGUAGES/  
PacketTracer63/LANGUAGES/default.ptl  
PacketTracer63/LANGUAGES/default.ts  
PacketTracer63/LANGUAGES/template.ts  
PacketTracer63/art/  
PacketTracer63/art/Activity/  
PacketTracer63/art/Activity/gActivityWizardHat.xpm  
PacketTracer63/art/Activity/gLockOff.png  
PacketTracer63/art/Activity/gLockOn.png  
PacketTracer63/art/Activity/gVariableIndicator.png  
PacketTracer63/art/Activity/gVariableIndicatorBlank.png  
PacketTracer63/art/Activity/gYellowCircle.png  
PacketTracer63/art/Background/
```

masuk ke folder Packet Tracernya

```
cd PacketTracer63
```

lalu saatnya untuk menginstall cisco packet tracer.

```
sudo ./install
```

kamu akan ditanyakan beberapa pertanyaan. Saat pertanyaan SLA jawab (Y) dan saat pertanyaan lokasi instalasi langsung saja tekan tombol **enter**.

```
Do you accept the terms of the EULA? (Y)es/(N)o
Y
You have accepted the terms to the EULA. Congratulations. Packet Tracer will now be installed.
Enter location to install Cisco Packet Tracer or press enter for default [/opt/pt]:
█

Should we create a symbolic link "packettracer" in /usr/local/bin for easy Cisco Packet Tracer startup? [Yn] Y
Type "packettracer" in a terminal to start Cisco Packet Tracer
Writing PT6HOME environment variable to /etc/profile

Cisco Packet Tracer 6.3 installed successfully
```

Setelah itu jalankan perintah berikut

```
chmod +x set_ptenv.sh
sudo ./set_ptenv.sh
```

```
zulfardhiyaulhaq@ZulfarDhiyaulhaq:~/PacketTracer63$ chmod +x set_ptenv.sh
zulfardhiyaulhaq@ZulfarDhiyaulhaq:~/PacketTracer63$ sudo ./set_ptenv.sh
Using default directory: /opt/pt
Writing PT6HOME environment variable to /etc/profile
```

yup proses instalasi selesai. Kamu hanya dapat menjalankan packet tracer melalui terminal dengan mengetikkan perintah

```
packettracer
```

**Langkah 5 (opsional)** : membuat launcher untuk cisco packet tracer

download file gambar untuk icon cisco packet tracer di [http://migrasilinux.or.id/wp-content/uploads/2016/04/Cisco\\_Packet\\_Tracer\\_Icon.png](http://migrasilinux.or.id/wp-content/uploads/2016/04/Cisco_Packet_Tracer_Icon.png). pindah icon ke direktori home kamu.

```
cp Cisco_Packet_Tracer_Icon.png ~
```

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```
Terminal File Edit View Search Terminal Help
zufardhiyaulhaq@ZufarDhiyaulhaq:~$ cd Pictures/
zufardhiyaulhaq@ZufarDhiyaulhaq:~/Pictures$ cp Cisco_Packet_Tracer_Icon.png ~
zufardhiyaulhaq@ZufarDhiyaulhaq:~/Pictures$ cd ..
zufardhiyaulhaq@ZufarDhiyaulhaq:~$ █
```

Lalu buat file .desktop untuk cisco packet tracer.

```
nano /home/username-kamu/.local/share/applications/packettracer.desktop
```

isi file dengan

```
[Desktop Entry]
Name= Packettracer
Comment=Networking
GenericName=Cisco Packettracer
Exec=packettracer
Icon=/home/username-kamu/Cisco_Packet_Tracer_Icon.png
StartupNotify=true
Terminal=false
Type=Application
```

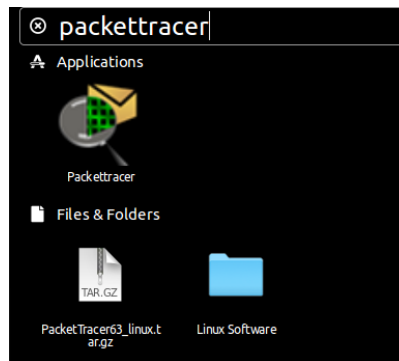
```
Terminal File Edit View Search Terminal Help
GNU nano 2.5.3 File: ..cal/share/applications/packettracer.desktop Modified
[Desktop Entry]
Name= Packettracer
Comment=Networking
GenericName=Cisco Packettracer
Exec=packettracer
Icon=/home/username-kamu/ Cisco_Packet_Tracer_Icon.png
StartupNotify=true
Terminal=false
Type=Application
```

setelah itu buat file agar dapat dijalankan

```
chmod +x /home/username-kamu/.local/share/applications/packettracer.desktop
```

yup icon telah berhasil kamu buat.

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Buka packet tracer menggunakan launcher yang telah dibuat.





## Penutup

tulisan ini hanya sebagian kecil tentang banyaknya cara penginstalan software di GNU/Linux. Sebagai wujud apresiasi untuk gerakan Migrasi Linux.

## Disclaimer

penulis sepenuhnya tidak bertanggung jawab atas resiko yang terjadi pada proses instalasi. Kehilangan,kerusakan system menjadi tanggung jawab anda.