# Installing Cisco Packet tracer in Linux

By **babin**

*Cisco packet tracer*

## What is Cisco Packet tracer ?

**Cisco Packet tracer** is a powerful network simulator tool which used to trained while we Cisco certifications. It provide us good Interface view for every router's, and networking which with many options same as using the physical machines we can use unlimited dev network. We can create multiple network in single project to get trained like a professionals tracer will provide us with simulated application layer protocols such as **HTTP**, **DNS**, Rou **RIP**, **OSPF**, **EIGRP** etc.

Now it has been released including **ASA 5505 firewall** with command line configurations tracer available commonly for Windows, but not for Linux distributions. Here we can down get install Cisco package tracer.

### Newly released version of Cisco packet tracer:

The next Cisco Packet Tracer version will be Cisco Packet Tracer 6.2 currently it' development.

## My Environment Setup:

**Hostname** : *desktop1.unixmen.com*

**IP address** : 192.168.0.167

**Operating system** : Ubuntu 14.04 LTS Desktop

The following commands will give the above details.

```
hostname
```

```
ifconfig | grep inet
```

```
lsb_release -a
```

## **Step 1**: First we need to download the Cisco Packet tracer.

To download Packet Tracer from official website we need to have a token, sign into Cisco N and select CCNA > Cisco Packet Tracer from the Offerings menu to start the download. If have a token you can get from below link which i have uploaded in Dropbox.

Official Website: https://www.netacad.com/

Many of them don't have a token to download packet tracer. For that i have uploaded it in you can get packet tracer from below URL.

Download Cisco Packet Tracer 6.1.1

## Step 2: Install Java:

To get install packet tracer we need to have install Java, To get install java we can use the d add the PPA repository and update the package cache to get install java.
Install the default jre using

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

(or)

Use the below step to get install Java Run-time and set the Environment.

Download Java from official website : Download Java

```
tar -zxvf jre-8u31-linux-x64.tar.gz

sudo mkdir -p /usr/lib/jvm

sudo mv -v jre1.8.0_31 /usr/lib/jvm/

cd /usr/lib/jvm/

sudo update-alternatives --install "/usr/bin/java" "java" "/usr/lib
/jvm/jre1.8.0_31/bin/java" 1

sudo update-alternatives --set "java" "/usr/lib/jvm/jre1.8.0_31/bin/java"
```

Set the environment for java by editing the profile file and add the location. While we a profile file java will available for every user's in our machine.

```
sudo vi /etc/profile
```

Add the following entries to the bottom of your /etc/profile file:

```
export JAVA_HOME=/usr/lib/jvm/jre1.8.0_31
export PATH=$PATH:/usr/java/jre1.8.0_31/bin
```

Run the below command to activate java path immediately.

```
. /etc/profile
```

Check for the Java version and Environment:

```
echo $JAVA_HOME
```

```
java -version
```

## Step 3: Enable 32bit architecture support:

For Packet tracer we need some of 32bit packages. To get install 32bit packages we need some of dependencies using below commands.

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

```
sudo apt-get install libc6:i386

sudo apt-get install lib32z1 lib32ncurses5 lib32bz2-1.0

sudo apt-get install libnss3-1d:i386 libqt4-qt3support:i386 libssl1.0.0:i38
libqtwebkit4:i386 libqt4-scripttools:i386
```

## Step 4: Extract and install the package:

Extract the downloaded package using tar command.

```
mv Cisco\ Packet\ Tracer\ 6.1.1\ Linux.tar.gz\?dl\=0 Cisco_Packet_tracer.ta

tar -zxvf Cisco_Packet_tracer.tar.gz
```

Navigate to the extracted directory:

```
cd PacketTracer611Student
```

Now it’s time to start the installation , Installation is very simple and just take few seconds.

```
sudo ./install
```

To working with Package tracer we need to set the environment for that Cisco have prov environment script, We need to run the script using root user to set the environment variabl

```
sudo ./set_ptenv.sh
```

That’s it for installation step’s. next we need to create a Desktop Icon for Packet tracer. Create the Desktop Icon by creating desktop file under.

```
sudo su

cd /usr/share/applications

sudo vim packettracer.desktop
```

Append the Below content to the file using vim editor or your favourite one.

```
[Desktop Entry]
Name= Packettracer
```

```
Comment=Networking
GenericName=Cisco Packettracer
Exec=/opt/packettracer/packettracer
Icon=/usr/share/icons/packettracer.jpeg
StartupNotify=true
Terminal=false
Type=Application
```

Save and quit using wq!

## Step 5: Run the packet tracer

```
sudo packettracer
```

That’s it we have successfully installed the packet tracer in Linux, These above steps are for every debian based Linux distributions.

## Resources:

**Home page:** Netacad

## Conclusion:

Here we have seen how to install packet tracer in Linux distribution, Hope you have find a
get install your favorite Simulator in Linux.

**Arjun Mayilvaganan**
Same problem, Same Linux Distribution. If you had that problem resolved, please let me kn

**Alexis**
Installing PT 6.3 on Debian 8.3.... thank.

**NN#4**
same in debian 8.2, when i install it, the first time it runs, but if i close or reboot, it does not anymore

**Martin Krajčírovič**
Command not found:
sudo dpkg –add-architecture i386

**Saeid**
Thank you very much. I installed PT on Debian Jessie and it works for me. Just I had to remo "sudo" from both files "install" and "set_ptenv.sh".