

# LAB 1: Introduction to Networking

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## How to use the lab guides

The lab guides in this training are designed to be completed in class or at home. This means that depending on your time and availability, you can accomplish the tasks in each lab either during (after) the corresponding lecture, use it as a homework or split it for class/home work as you wish. Important is that you are finished with each lab before the date of the next lecture.

## Introduction to LAB 1

In this first LAB, you will be asked to download and install Cisco Packet Tracer and to spend some time learning how to use it. This simulator will be your primary tool for practicing with network configuration commands, protocols, and configurations.

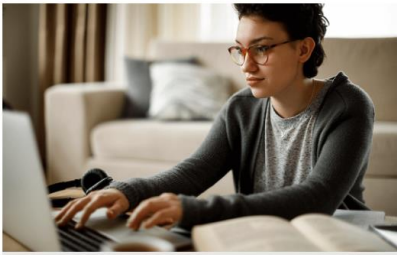


## Exercise 1: Explore, download and install Cisco Packet Tracer

In this exercise, you are going to do the following:

- Register an account at Netacad/Skills For All
- Watch the online course to learn how to work with it
- Download and install the **Cisco Packet Tracer** simulator on your computer

1. Navigate to <https://www.netacad.com/courses/packet-tracer>  
Scroll down and you will see three free courses related to how to use **Cisco Packet Tracer**. If you wish, you can view all of them, but the first one is recommended

## All Content

|  |   |  |
|--|---|--|
|   |   |   |
| <p>Course</p> <p><b>Getting Started with Cisco Packet Tracer</b></p> <p>Your on-ramp to Cisco Packet Tracer. Get familiar with the simulation environment and download the latest version.</p> | <p>Course</p> <p><b>Exploring Networking with Cisco Packet Tracer</b></p> <p>Practice using Cisco Packet Tracer to set up, manage, and monitor a branch office network.</p> | <p>Course</p> <p><b>Exploring Internet of Things with Cisco Packet Tracer</b></p> <p>Learn to add and configure IoT devices in Cisco Packet Tracer to set up a smart home network.</p> |
| <p>🕒 2 Hours</p> <p>🔒 Free</p> <p>👤 Beginner</p>   | <p>🕒 3 Hours</p> <p>🔒 Free</p> <p>👤 Beginner</p>  | <p>🕒 3 Hours</p> <p>🔒 Free</p> <p>👤 Beginner</p>   |

### 2. Click **View course** for the **Getting Started with Cisco Packet Tracer**



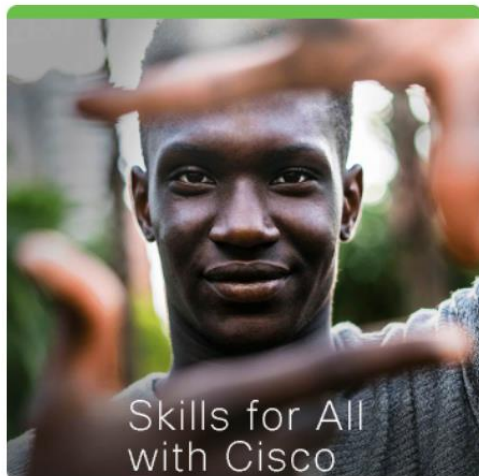
## Getting Started with Cisco Packet Tracer

2 hours

This short on-ramp is a great place to start and showcases the latest Packet Tracer user interface. Sign up below and you will be directed to the self-paced course in our new learner experience on [SkillsForAll.com](https://skillsforall.com).

[View course](#)

### 3. You will be redirected to a page where you can start this course. If this does not happen automatically, click on the button as shown below



This course is now improved and available on a new website. Making it more engaging and efficient for you.


You will be redirected to the [Skills For All](#) with Cisco website. Once there, enroll in a Cisco Packet Tracer course to download the software and get started.


If the window hasn't opened, select this link:


[Skills For All](#)


- Click on the course image again or click on the **Start Today** button. Then, click on **Sign up** and follow the steps to create an account


- Once you have an account, go to the **Getting Started with Cisco packet Tracer** course and specifically to the **Download and Use Cisco Packet Tracer** section as shown below


**Getting Started with Cisco Packet Tracer**  
 Getting Started with Cisco Packet Tracer: Download and Use Cisco Packet Tracer



**Download and Use Cisco Packet Tracer**

 Create a Cisco Packet Tracer Network

 Course Completion Assessment & Survey

 Networking Academy

## Module 1: Download and Use Cisco Packet Tracer



[Trouble Viewing Content?](#)
[Click here to view](#)
[View in Fullscreen](#)

6. Scroll down, click on **Install Cisco Packet Tracer** section and scroll down again until you see the link to download the simulator

## 1.0.3 Download Cisco Packet Tracer



To obtain and install your copy of Cisco Packet Tracer, please follow the instructions from the link below:

<https://skillsforall.com/resources/lab-downloads>

7. Click on the link from the screenshot above (it is this one, but you have to be logged in) and you will see the links for downloads

To obtain and install your copy of Cisco Packet Tracer, please follow these simple steps:

**Step 1.** Download the version of Packet Tracer you require.

[Packet Tracer 8.1.1 MacOS 64bit](#)

[Packet Tracer 8.1.1 Ubuntu 64bit](#)

[Packet Tracer 8.1.1 Windows 64bit](#)

**Step 2.** Launch the Packet Tracer install program.

**Step 3.** Launch Cisco Packet Tracer by selecting the appropriate icon.

**Step 4.** When prompted, click on Skills For All green button to authenticate.

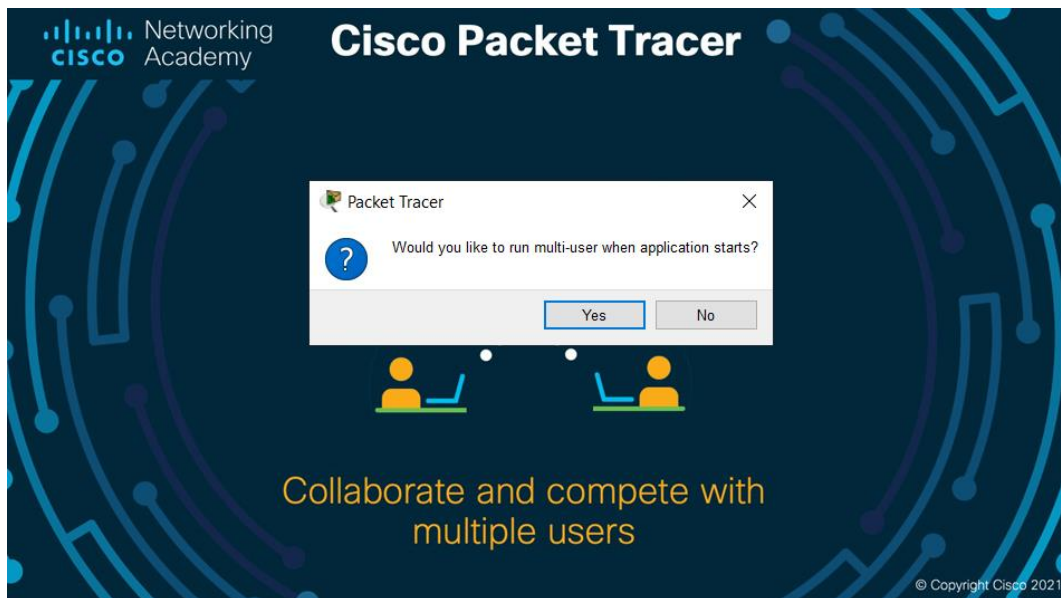
**Step 5.** Cisco Packet Tracer will launch and you are ready to explore its features.

If you need more guidance, please follow the [Cisco Packet Tracer Download and Installation Instructions](#).

#### System Requirements:

Computer with either Windows (8.1, 10, 11), MacOS (10.14 or newer) or Ubuntu 20.04 LTS operating system, amd64(x86-64) CPU, 4 GB of free RAM, 1.4 GB of free disk space

8. Download the appropriate version for you (we recommend the Windows version, if you have multiple platforms) and install it on your computer
9. If you receive a firewall security alert (for the Windows installations), click on **Allow access**
10. First time you run the simulator, you may receive a **Would you like to run multi-user when application starts?** question. We are not going to use this feature, so you can answer with **No**





Note: Although you have already downloaded a copy of the software and installed it locally, you still need to login with your Netacad/Skills For All account when you use it. That is why having an account is not optional.

11. You should now have installed and logged in to Cisco Packet Tracer. Please have a look around and play with it by adding devices and connecting them. In the next lab, we will start building topologies and explore different protocols for communication.
12. [Optional] Return to the **Getting Started with Cisco Packet Tracer** course and review the materials (text and video) to get familiar with the simulator

You have completed LAB 1.