

Lab 1: Software Installation

Software you will need to download and learn:

All the files mentioned in these instructions can be found in the folder “Lab 01” on BrightSpace.

You need to install the following two programs that we will use extensively during the course:

- Packet Tracer: <https://www.netacad.com/>
- Wireshark: <https://www.wireshark.org/>

Task 1: Packet Tracer

Packet Tracer is a program provided by Cisco which allows you to build and simulate networks used in the CCNA curriculum. In this task, you will install the software and get yourself familiar with it.

1. Learning Objectives:

- Explore Packet Tracer Real-time mode
- Explore the Logical Workspace
- Explore Packet Tracer operation
- Connect devices
- Examine a device configuration
- Review the standard lab setup
- Overview of the device

2. Installation:

- You should have received an email to your AC email to help with creating an account on netacad.com . If you haven't received an email, let your lab professor know.
- Once Download Packet Tracer from www.netacad.com for the latest version. Make sure that you've registered on the website and logged in with your AC email account.
- Install using the default installation settings.
- You may be prompted to allow Packet Tracer access through the Windows Firewall, this should be permitted.

3. Procedures:

- Download “Lab01 Intro to PT.pka” from BrightSpace.
- Launch Packet Tracer and open the file “*Lab01 Intro to PT.pka*”. Two windows will open: PT Activity and CISCO Packet Tracer Student.
- You should see the User Profile dialog as soon as you open the pka file. If you don't see it then locate the “Options” menu item and select “User Profile”. **Enter your full name in the Name field and your Algonquin email address in the E-mail field. DO THIS NOW BEFORE PERFORMING ANY WORK IN PACKET TRACER AS CHANGING USER PROFILE RESULTS IN ALL WORK YOU MAY HAVE**

PERFORMED TO BE LOST. Note: Some Packet Tracer Activities are graded using a separate grading tool. Failure to properly complete the user profile will result in you receiving a zero for any submitted PT activities.

- To complete the activity, follow the instructions in Packet Tracer's "PT Activity" window. Note that the separating bars in the workspace of the latest version of PT have changed color from yellow to blue.
- When you have completed the activity, check your results using the "Check Results" button located on the Activity Window; your objective is to achieve 100%!
- Save the file with the suggested file name: **PT_lab1.pka**.

Task 02: Wireshark

Wireshark is a program that will allow us to capture and analyze network traffic.

1. Download Wireshark from <https://www.wireshark.org/> for the latest version.
2. Install using the default settings. If you want you can choose to create a "Desktop Icon".
3. You will probably need to install Npcap as part of the installation. The Wireshark installation program will offer to do this for you. You must install Npcap or Wireshark will not run. When prompted to install Npcap, click the install button.
4. Leave the setting "Automatically start the Npcap driver at boot time" selected.
5. **Leave all the other options at their defaults.**
6. When the installation is complete, "Run Wireshark" to ensure it is working.
7. When Wireshark is running, it should show you the "Interface List" – meaning, displays your Laptop's available network interfaces from which network traffic can be captured. NOTE: DO NOT continue unless you have at least one entry appearing in the "Interface List". Take a screen capture of with Wireshark's Interface List and the computer time. **Please make sure that the time and date of your PC is shown in the screenshot, otherwise the screenshot will not be graded!**
Note that the Interface List must contain at least one entry! Save the screen capture taken as you will need to submit it to BrightSpace as proof of successful installation. Suggested filename: **WSInterfaceList.jpg**. Close Wireshark.

Task 03: Submission

Submit the saved 2 highlighted files from the previous tasks to the drop box inside the folder "lab 01" on BrightSpace.

File 1: the packet tracer file completed and contains your customized profile information.

File 2: the screenshot of the interface list including the time and date of your PC.

DO NOT ZIP FILES, just upload the two files in the Brightspace lab1 drop box.

Once submitted, proceed to complete the Post-Lab 01 Quiz