

Computer Networking Lab

Assignment No 03.

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## Wireshark & Packet Tracer Installation

**Wireshark** is an open-source network protocol analyzer that helps us to see what is happening inside a network when we try to communicate with other networks. Currently, Wireshark is the most famous application to analyze networks.

**Cisco Packet Tracer** is a network simulation tool developed by Cisco Systems. It is widely used for educational and training purposes to simulate computer networks and gain hands-on experience with network configuration and troubleshooting. Packet Tracer allows users to create and configure virtual networks, such as routers, switches, and other networking devices. You can simulate network topologies without the need for physical hardware

### Installation process (Ubuntu Linux) :

#### Wireshark :

**Step 1:** CLI (Command Line Interface): Very fast type of installation, just type the command

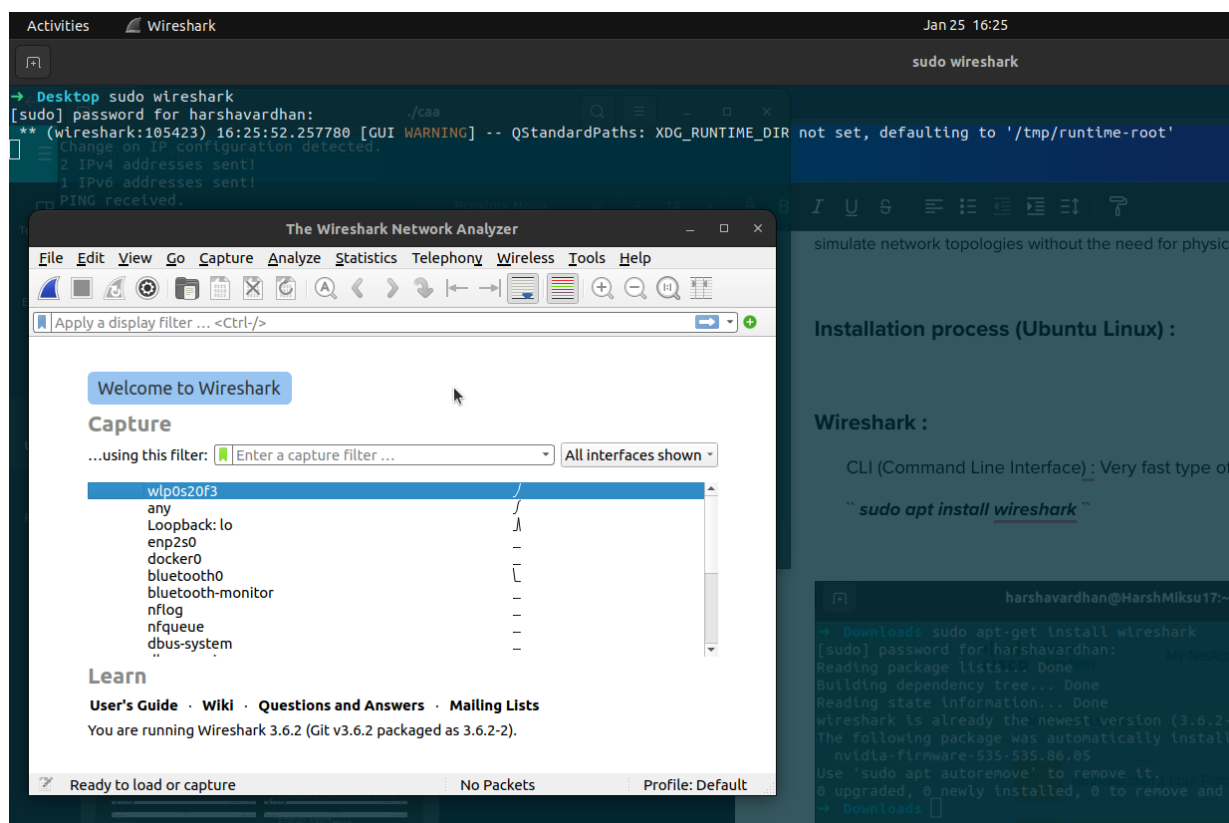
```
`` sudo apt install wireshark ``
```

```
harshavardhan@HarshMiksu17:~/Downloads
→ Downloads sudo apt-get install wireshark
[sudo] password for harshavardhan:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
wireshark is already the newest version (3.6.2-2).
The following package was automatically installed and is no longer required:
  nvidia-firmware-535-535.86.05
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 44 not upgraded.
→ Downloads
```

**Step 2:** Now open wireshark by using command `` **sudo wireshark** ``

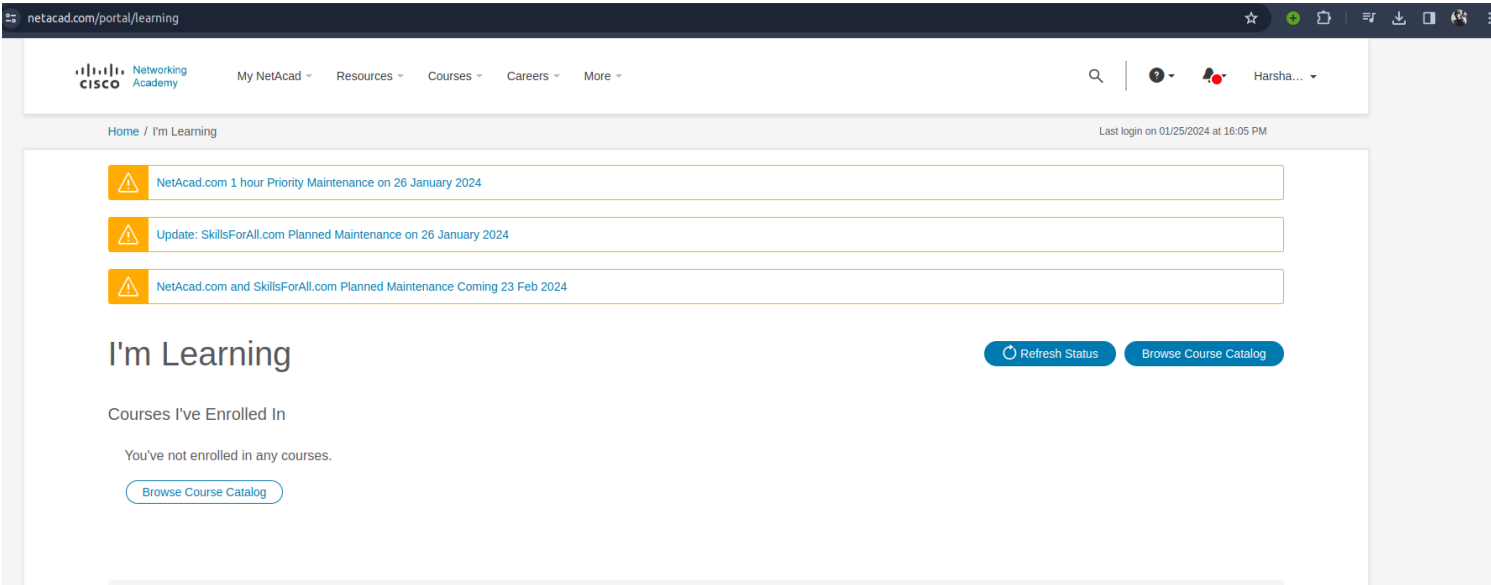
```
→ Desktop sudo wireshark
[sudo] password for harshavardhan:
— Change on IP configuration detect
```

This is how wireshark looks like

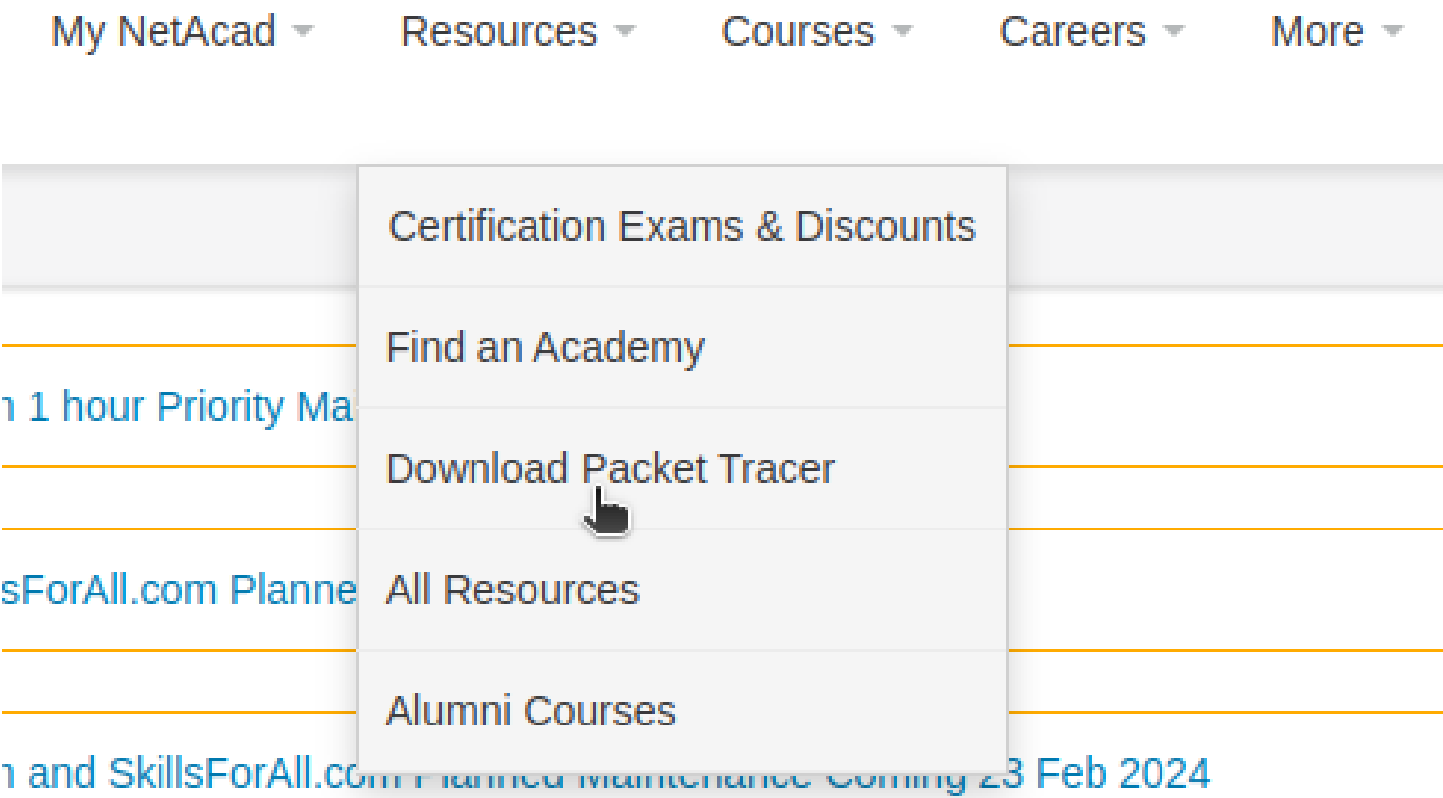


# Cisco Packet Tracer :

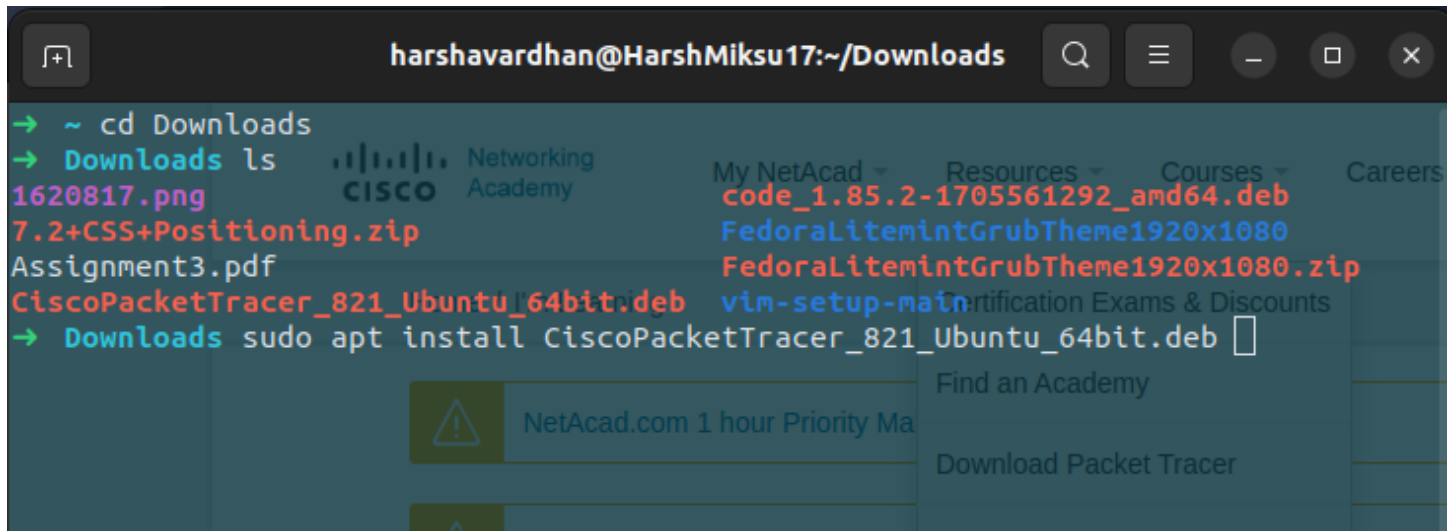
## Step 1: Logging into the Cisco Networking Academy website



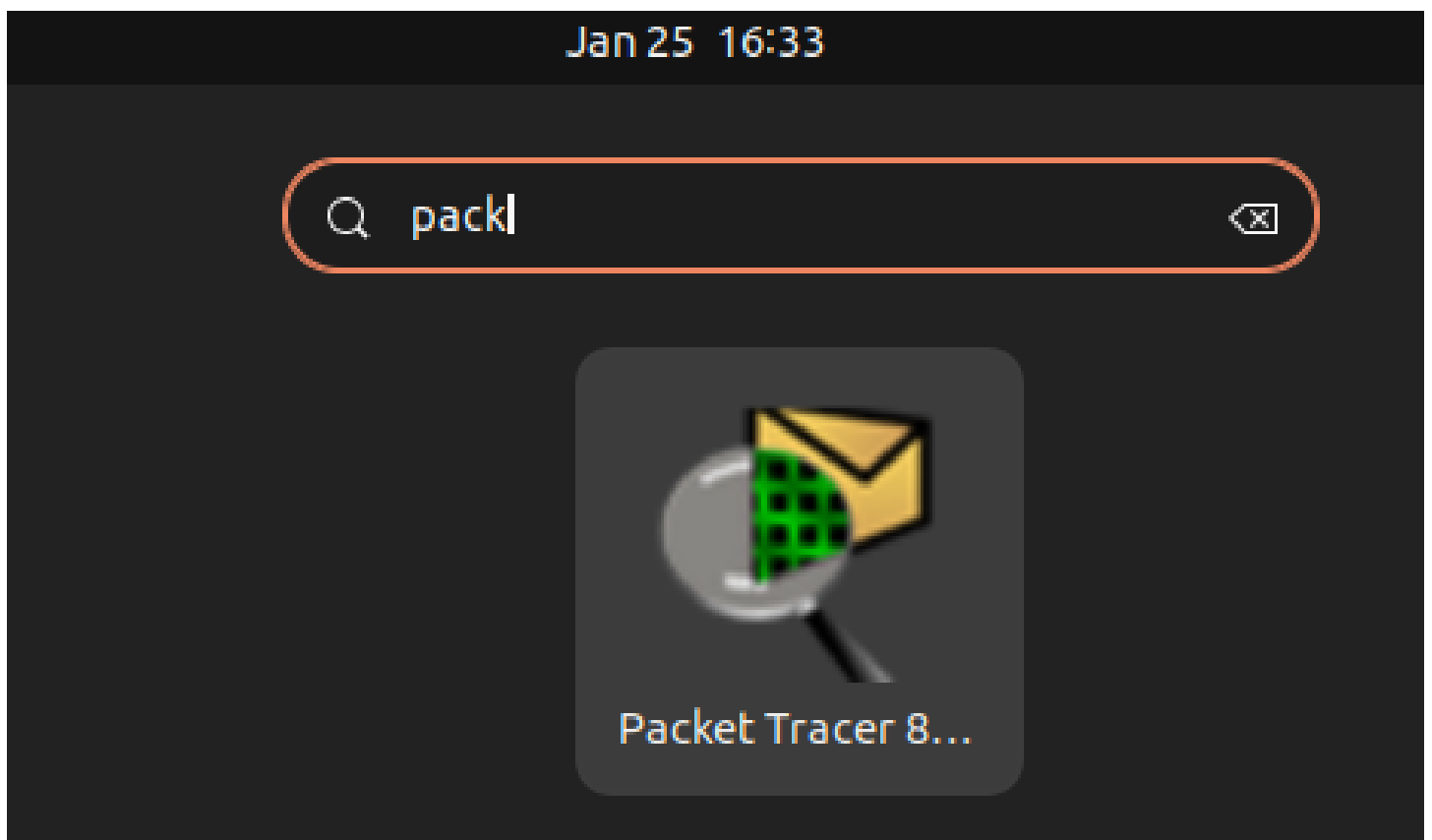
## Step 2: The Resource Section



### Step 3: Installing the package



### Step 4: Working with Packet Tracer



# Step 5: Open Packet Tracer

