Royal University of Phnom Penh
Faculty of Engineering

Cisco Packet Tracer

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Data Communication

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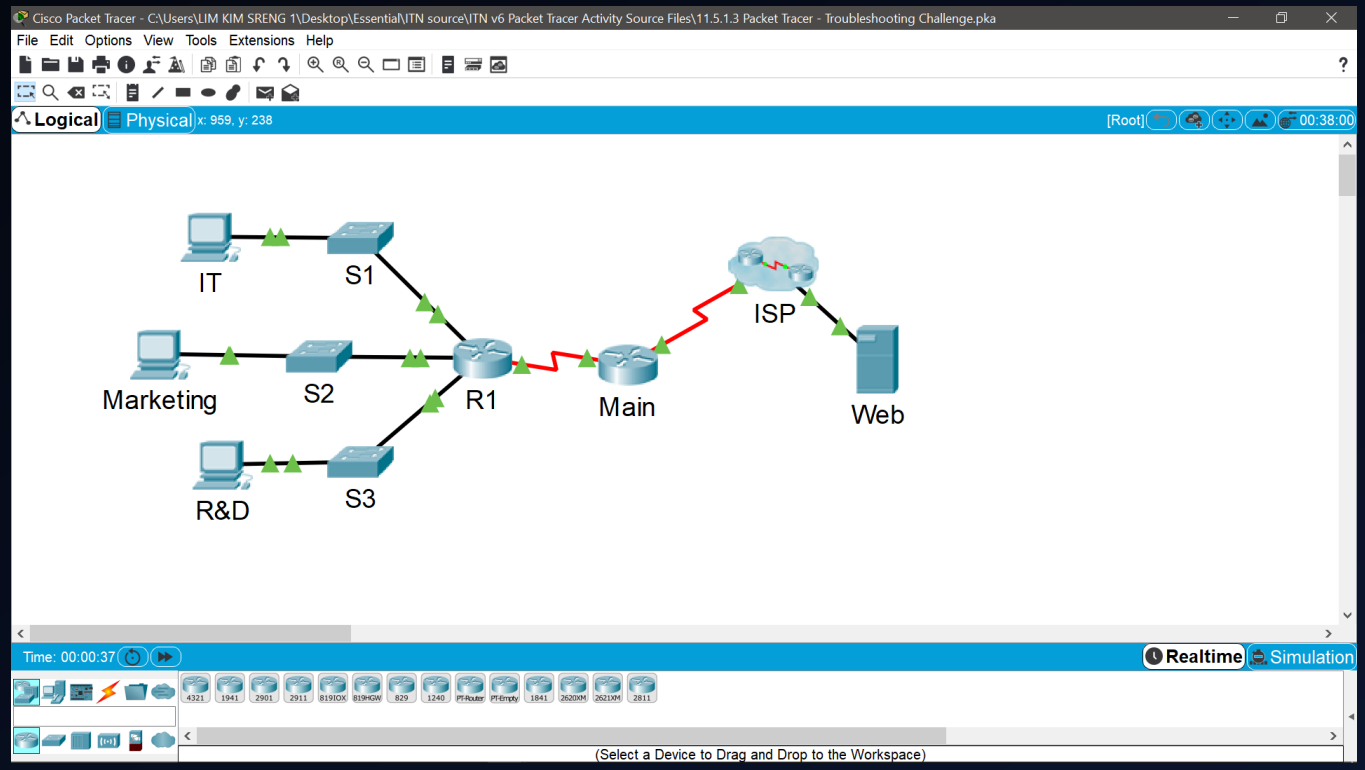
- Video Demo with a small topology with 2 LANs connected

Introduction

- What is Packet Tracer?
- Why do we use it? Why not other programs?
- How to download and install Packet Tracer?

What is Packet Tracer?

Packet Tracer is a network simulation and modelling tool that allows you to develop your skill set in networking that developed by Cisco.



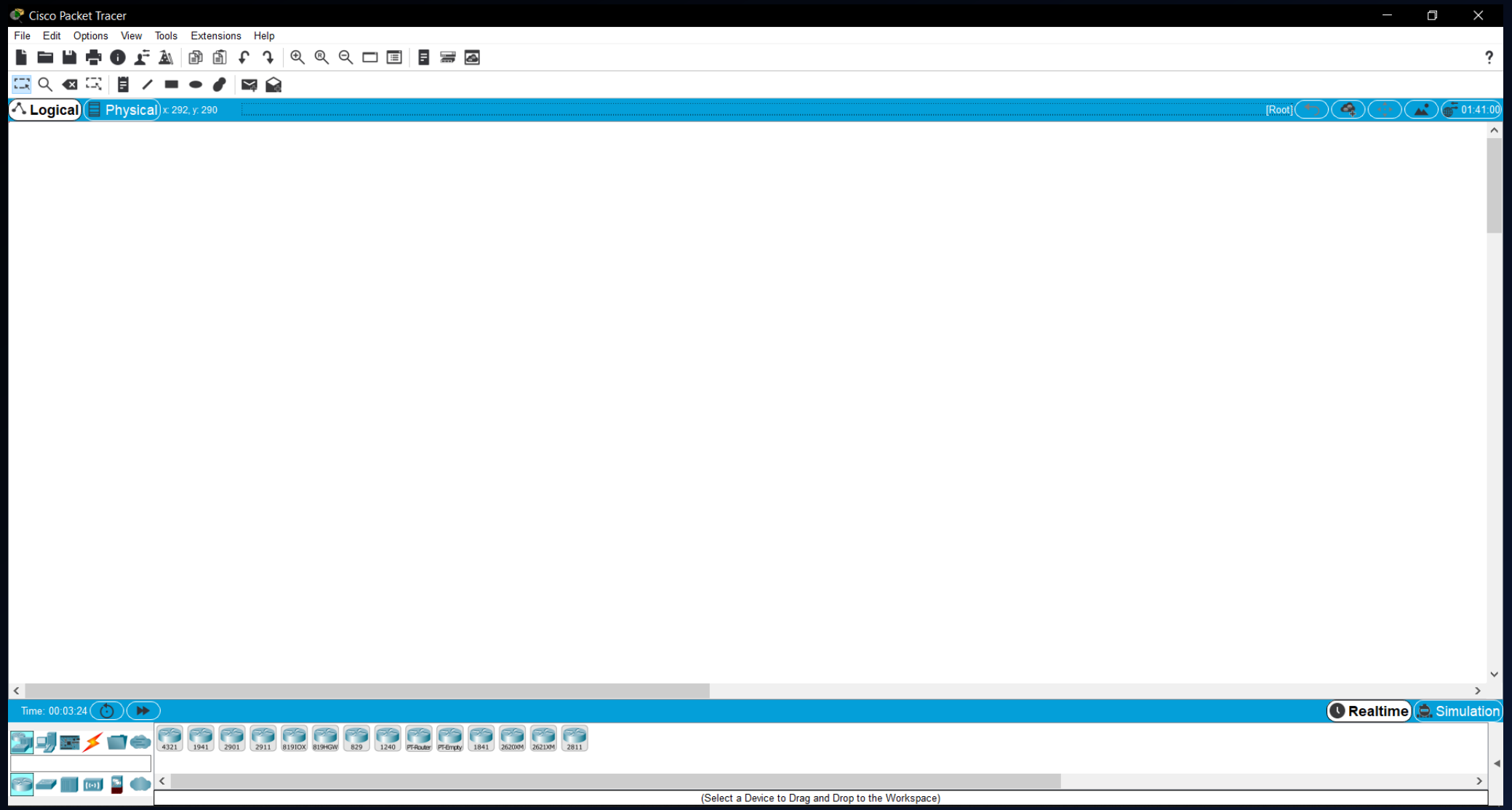
Why do we use it? Why not other programs?

- Offers a variety of common virtual networking equipment, especially Cisco products.
- Ideal for those who want to achieve Cisco certifications like CCENT, CCNA ...etc.
- We choose to use it over other network simulation tools (GNS3...etc.) because Packet Tracer is free to download and simple for beginner to use as well.

How to download and install Packet Tracer?

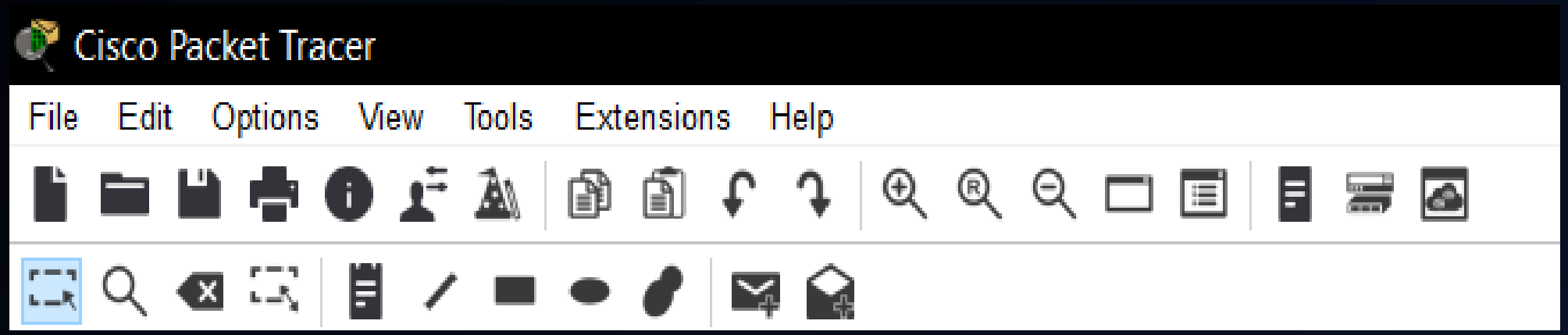
To get Packet Tracer (download and install it) (Latest Version), Cisco requires you to register as a Netacad student in order to download the Packet Tracer. Go to https://www.netacad.com/courses/packet-tracer

Important toolbars on the top

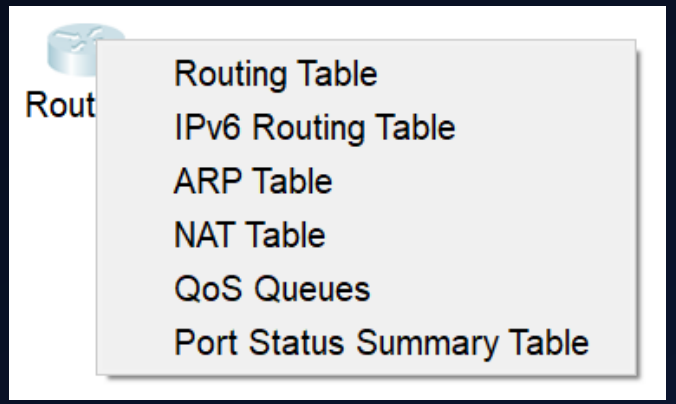


Important toolbars on the top

At the top of Packet Tracer interface, you find the classic drop-down menu and some shortcuts in the blue bar.

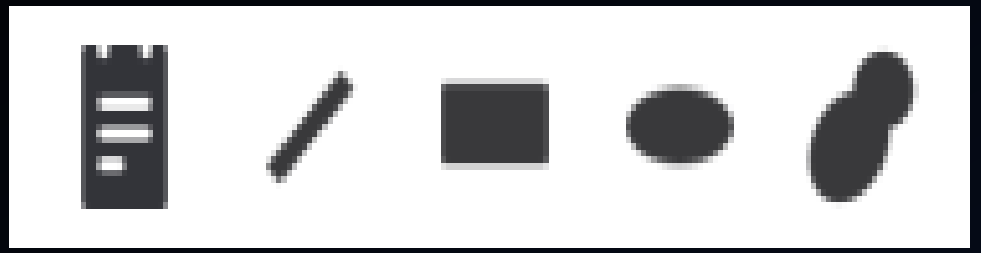


Inspect tool :

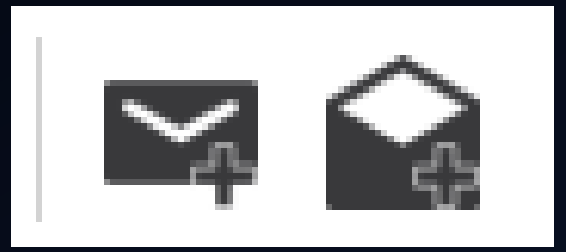


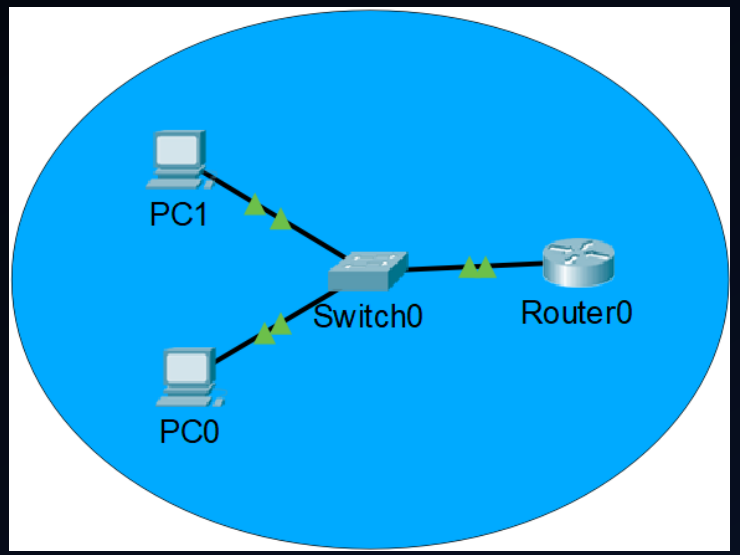
Important toolbars on the top

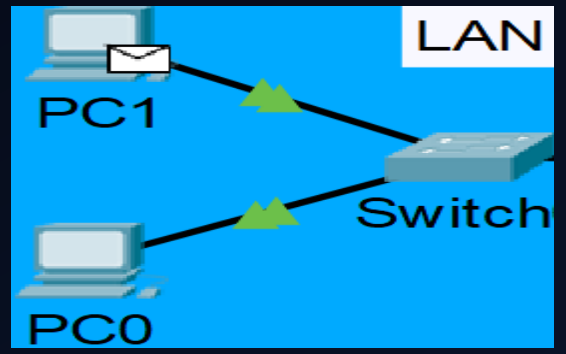
“The Drawing menu + Note“



“PDU for connection testing“



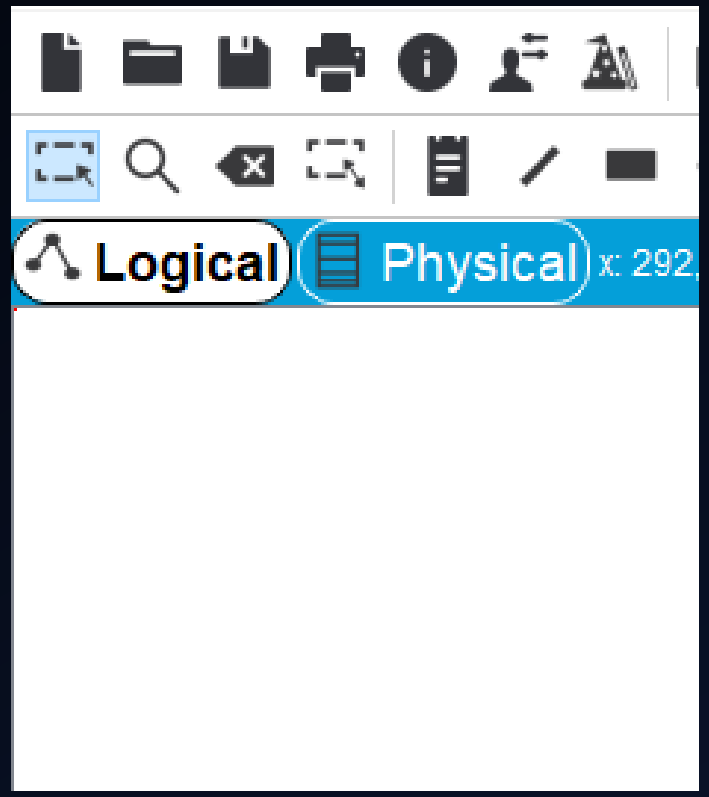




Fire	Last Status	Source	Destination	Type	Color	Time(sec
	Successful	PC1	PC0	ICMP		0.000

Important toolbars on the top

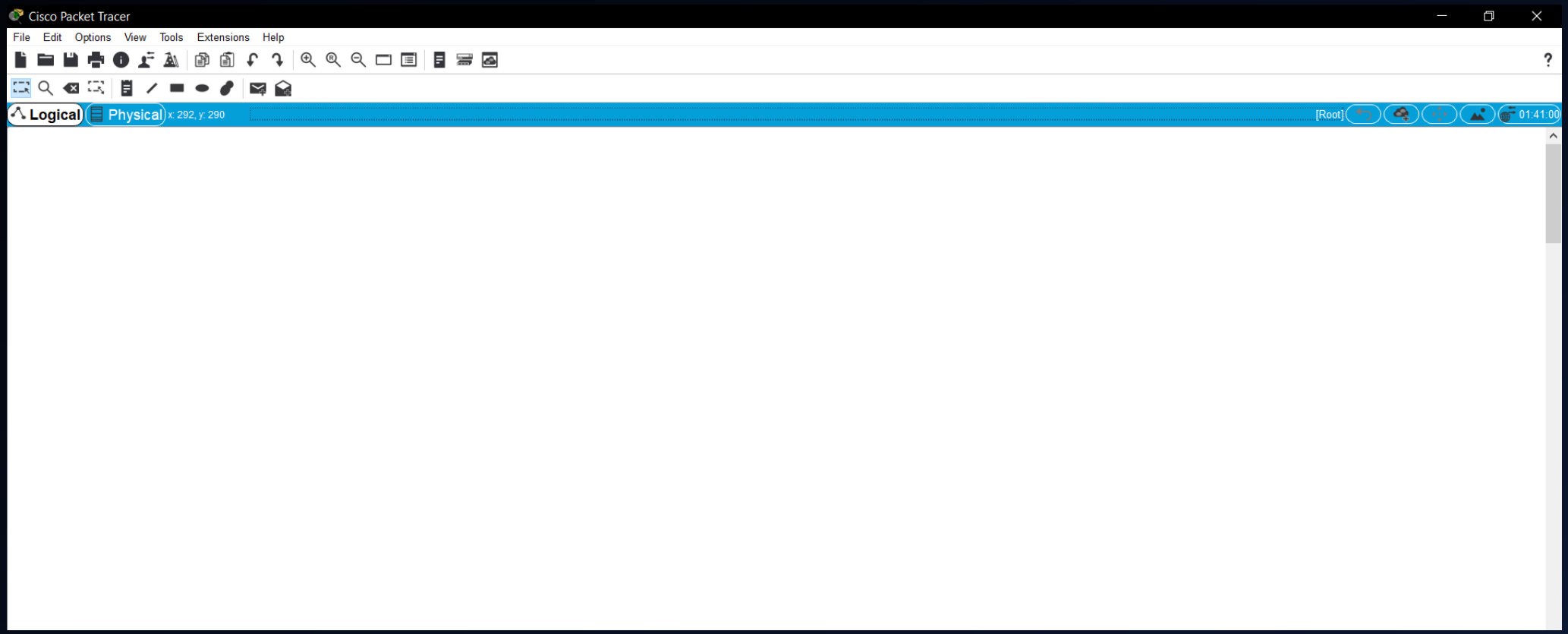
The *switch* between Logical and Physical workspace is the leftmost element of the bar. You can use it to switch between logical workspace (icon with three dots) or physical workspace (server icon).



Important toolbars on the top

Workspace toolbar

This is the Packet Tracer workspace toolbar with the “Logical” tab selected.



Important toolbars on the top

Workspace toolbar

In the physical workspace, you can see fictitious cities, buildings and wiring closets.

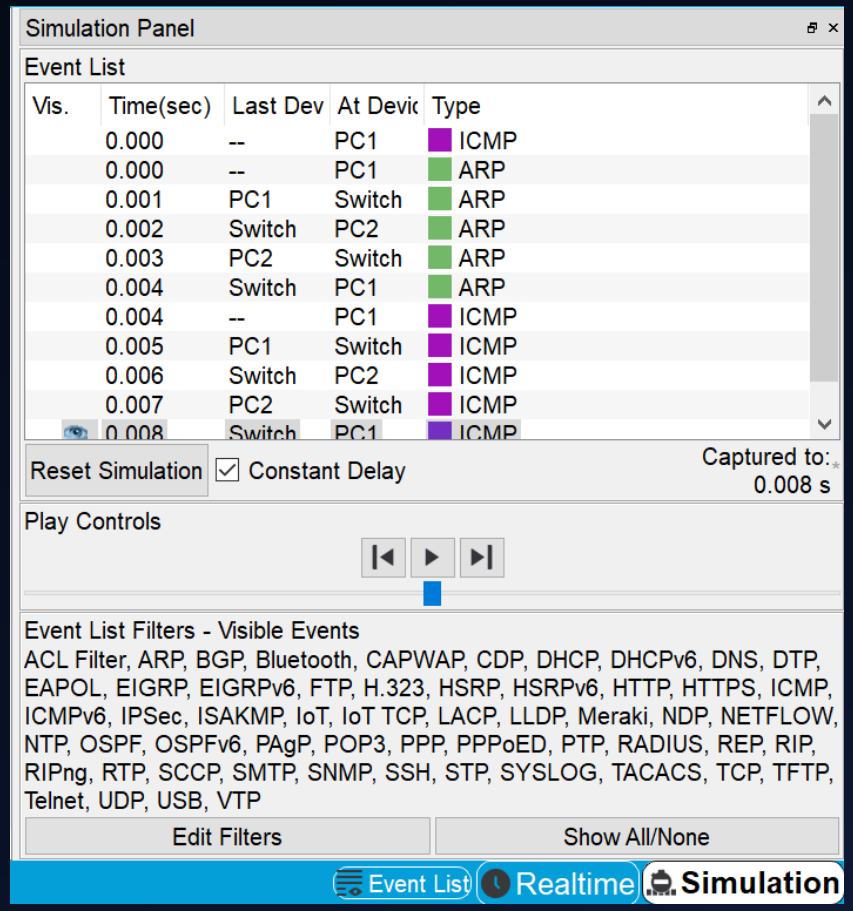
Important toolbars on the top

“ Real-time and Simulation mode toolbar“

Most of the content in the previous slides are in Realtime Mode.

Simulation mode will be described more in the Video Demo.

Simulation Mode



Bottom toolbar

- Network Devices

- End Devices

- Connections

Bottom toolbar

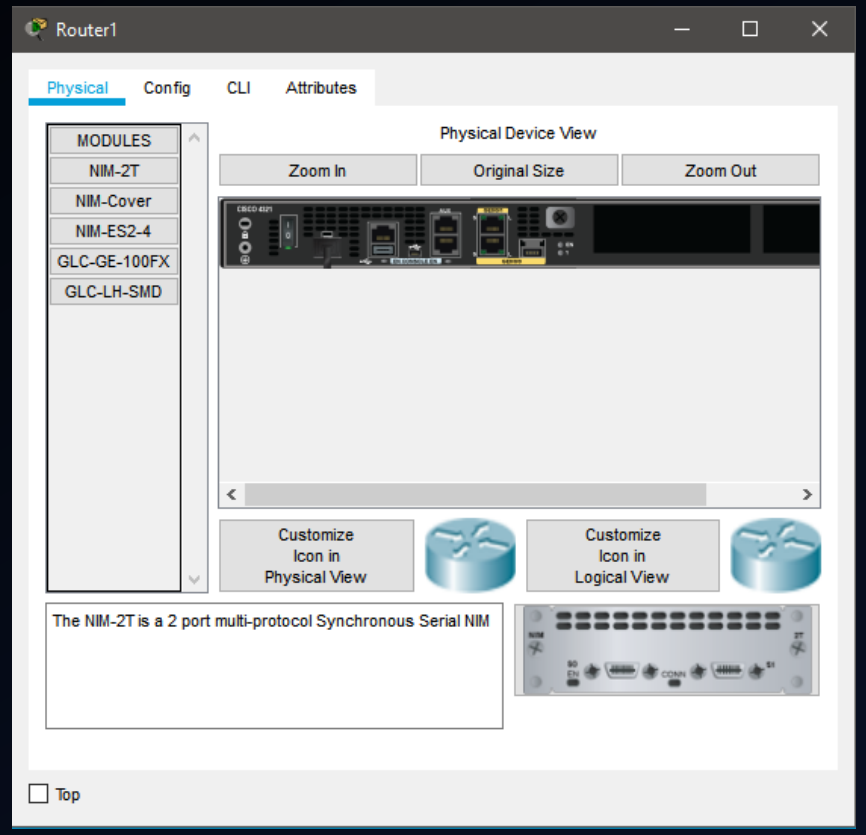
Subsidiary of devices

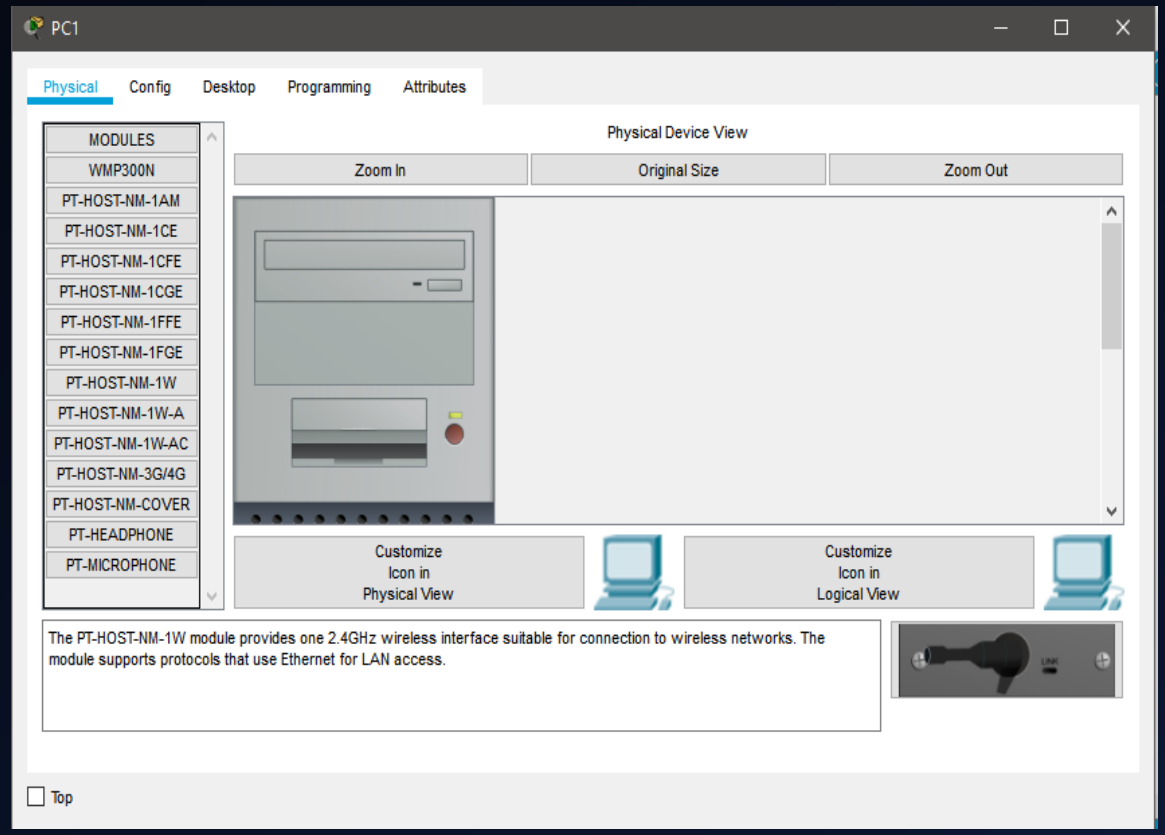
2nd Subsidiary of devices

1-Network Devices	2-End Devices	3-Components
4-Connection	5-Miscs	6-Multiuser Connection

Virtual Device

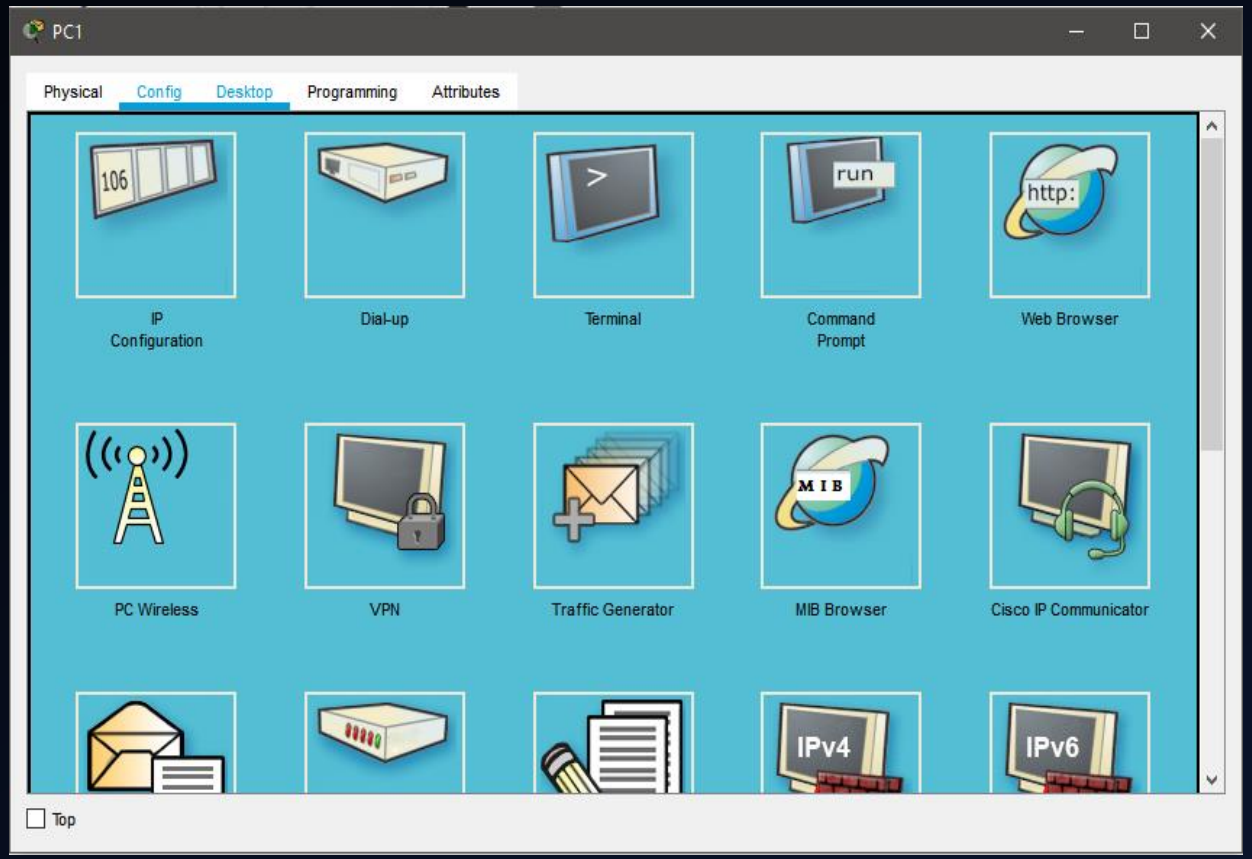
- In Cisco Packet Tracer, you can view device physical part, modify part or configure your device.



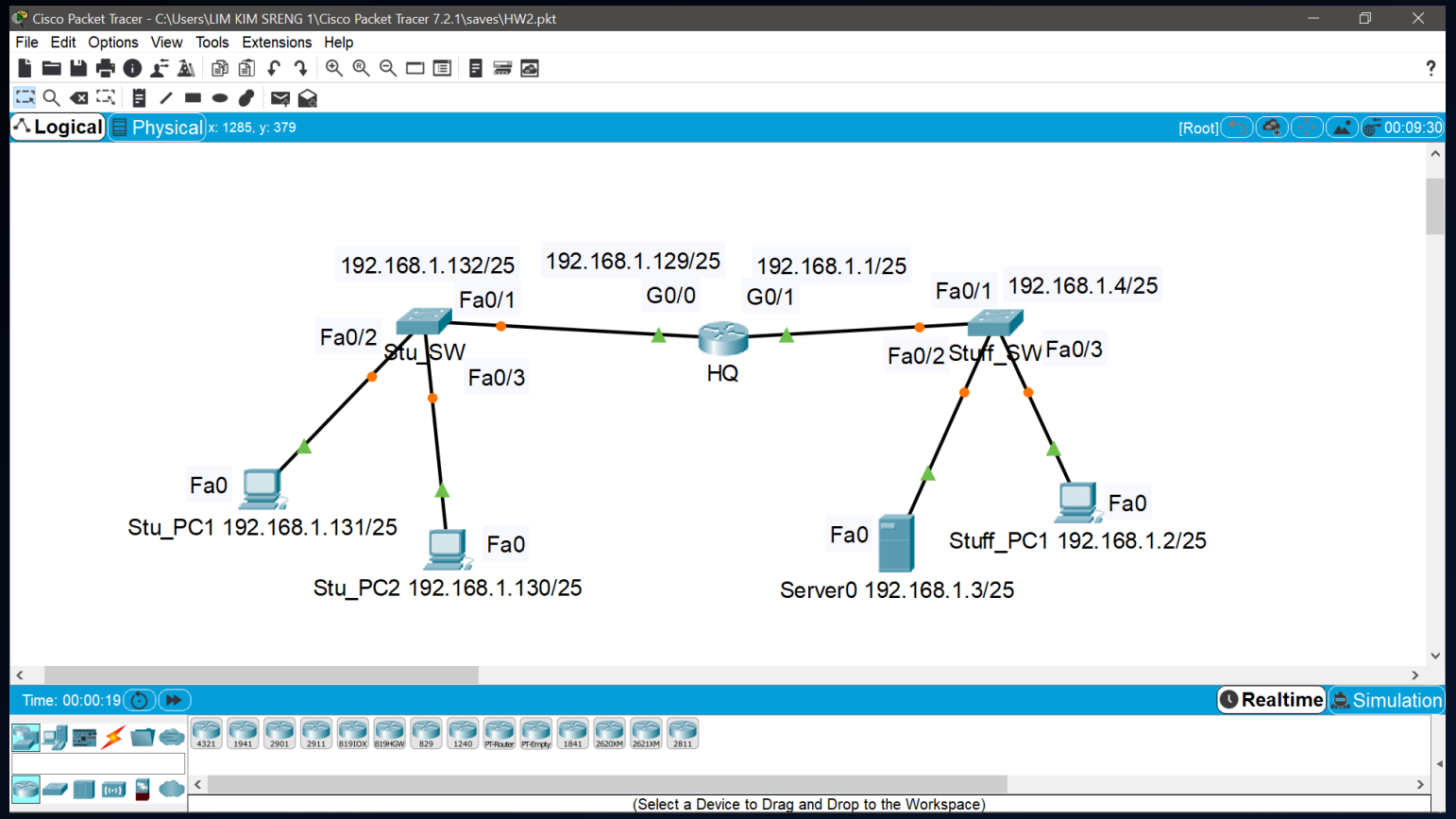


Virtual Device

- In Desktop tab, you can see some applications such as web browser, VPN, Terminal, Dial up and more.



Video Demo


Cisco Packet Tracer - C:\Users\LIM KIM SRENG 1\Cisco Packet Tracer 7.2.1\saves\HW2.pkt
File Edit Options View Tools Extensions Help
Logical Physical x: 1285, y: 379
[Root] 00:09:30
192.168.1.132/25
192.168.1.129/25
192.168.1.1/25
Fa0/1
G0/0
G0/1
Fa0/1
192.168.1.4/25
Fa0/2
Stu_SW
Fa0/3
HQ
Fa0/2
Stuff_SW
Fa0/3
Fa0
Stu_PC1 192.168.1.131/25
Fa0
Stu_PC2 192.168.1.130/25
Fa0
Server0 192.168.1.3/25
Fa0
Stuff_PC1 192.168.1.2/25
Time: 00:00:19
Realtime
Simulation
(Select a Device to Drag and Drop to the Workspace)

This demo covers:

- Assigning IP to a PC
- Simple PDU in Real time mode(Ping)
- Simulation mode:
  - Protocol filter walk-through
  - Step-by-step process of ICMP pinging through command prompt
  - Details in PDU type

Conclusion:

- Cisco Packet Tracer is ideal for anyone who wishes to experiment network devices virtually
- Get to play with Cisco virtual products
- Testing newly developed network topology before deploying

Reference:

- https://www.netacad.com/courses/packet-tracer/introduction-packet-tracer


thank you!


Q
A