

Department of ICT
Faculty of Technology
University of Ruhuna

Computer Networks – ICT1253

Level 1 - Semester 2

Lab Sheet 02

| 2022

Goal:

Understand the usage of network-related software packet analyzers and simulators.

Exercise 1:

Read the document about packet analyzers uploaded to the LMS.

Exercise 2:

Read the document about network simulators uploaded to the LMS.

Exercise 3:

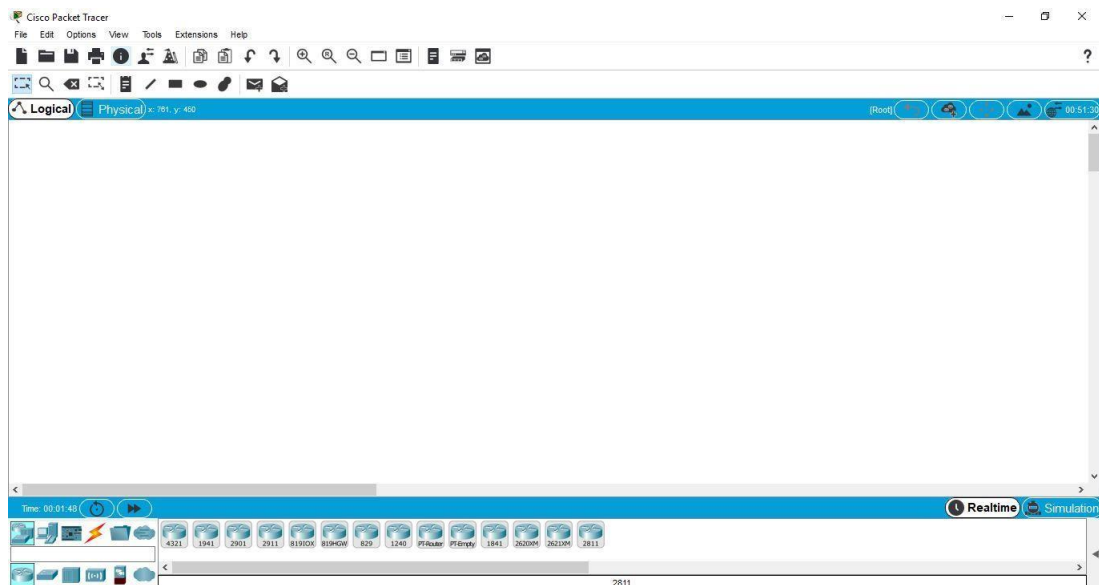
1. Open cisco packet tracer 7.2. (Any version available)

If not use the following link to install the packet tracer.

<https://www.computernetworkingnotes.com/ccna-study-guide/how-to-install-and-activate-packet-tracer-in-windows.html>



2. You will directly redirect to the main window of cisco packet tracer. If you got the login screen just log in as Guest Account or insert the credentials.

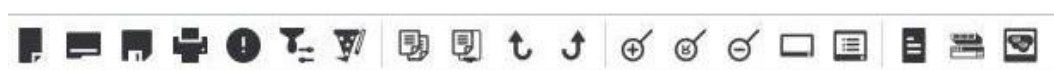


3. Identify main menu and toolbars on main window

- a) Menu Bar: This bar provides the File, Edit, Options, View, Tools, Extensions, and Help menus. You will find basic commands such as Open, Save, Save as Pkz, Print, and Preferences in these menus. You will also be able to access the Activity Wizard from the Extensions menu.



- b) Main Tool Bar: This bar provides shortcut icons to the File and Edit menu commands. This bar also provides buttons for Copy, Paste, Undo, Redo, Zoom, the Drawing Palette, and the Custom Devices Dialog. On the right, you will also find the Network Information button, which you can use to enter a description for the current network (or any text you wish to include).



- c) **Common Tools Bar:** This bar provides access to these commonly used workspace tools: Select, Move Layout, Place Note, Delete, Inspect, Resize Shape, Add Simple PDU, and Add Complex PDU.



- d) **Logical/Physical Workspace and Navigation Bar:** You can toggle between the Physical Workspace and the Logical Workspace with the tabs on this bar. In Logical Workspace, this bar also allows you to go back to a previous level in a cluster, create a New Cluster, Move Object, Set Tiled Background, and Viewport. In Physical Workspace, this bar allows you to navigate through physical locations, create a New City, create a New Building, create a New Closet, Move Object, apply a Grid to the background, Set Background, and go to the Working Closet.



- e) **Workspace:** This area is where you will create your network, watch simulations, and view many kinds of information and statistics.
- f) **Realtime/Simulation Bar:** You can toggle between Realtime Mode and Simulation Mode with the tabs on this bar. This bar also provides buttons to Power Cycle Devices and Fast Forward Time as well as the Play Control buttons and the Event List toggle button in Simulation Mode. Also, it contains a clock that displays the relative Time in Realtime Mode and Simulation Mode.



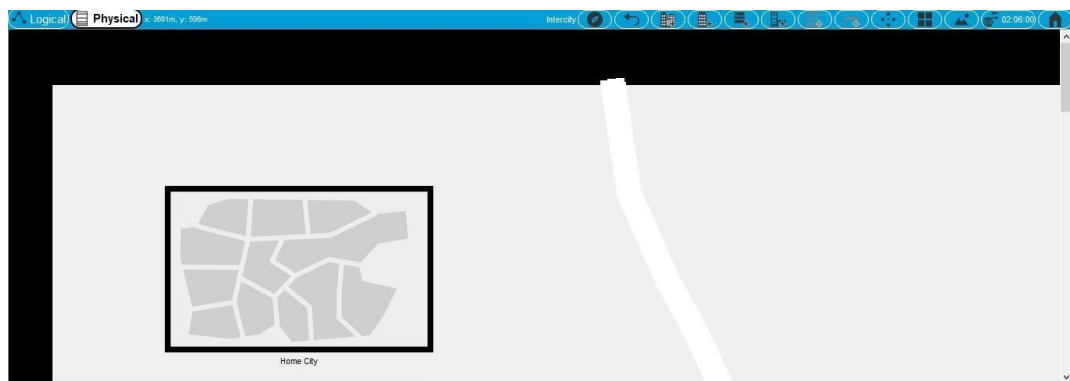
- g) Network Component Box: This box is where you choose devices and connections to put into the workspace. It contains the Device-Type Selection Box and the Device-Specific Selection Box.



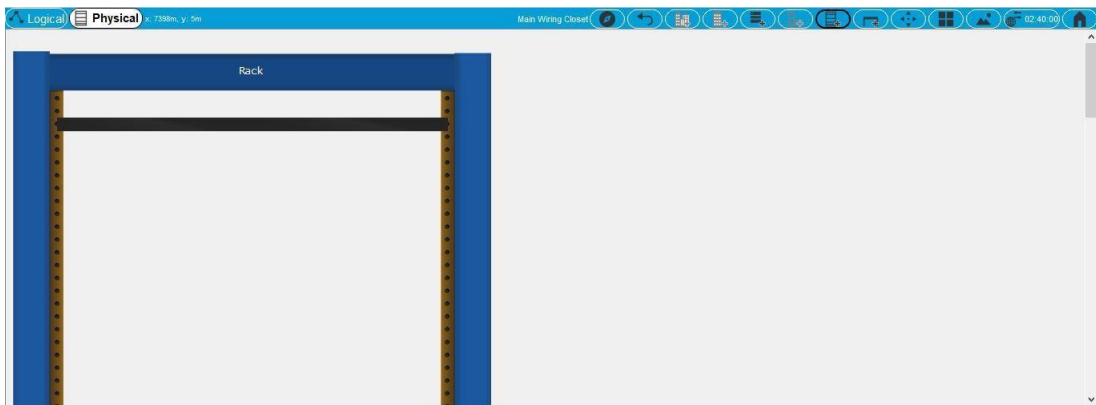
- h) Device-Type Selection Box: This box contains the type of devices and connections available in Packet Tracer. The Device-Specific Selection Box will change depending on which type of device you choose.
- i) Device-Specific Selection Box: This box is where you choose specifically which devices you want to put in your network and which connections to make.



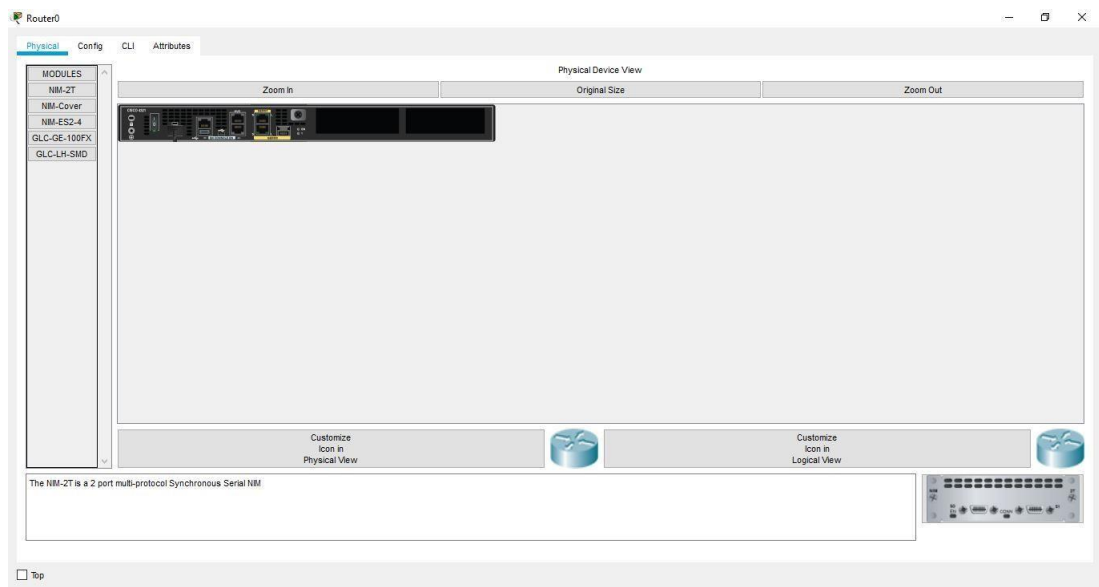
4. Drag a device to the workspace
5. Click on the physical workspace button



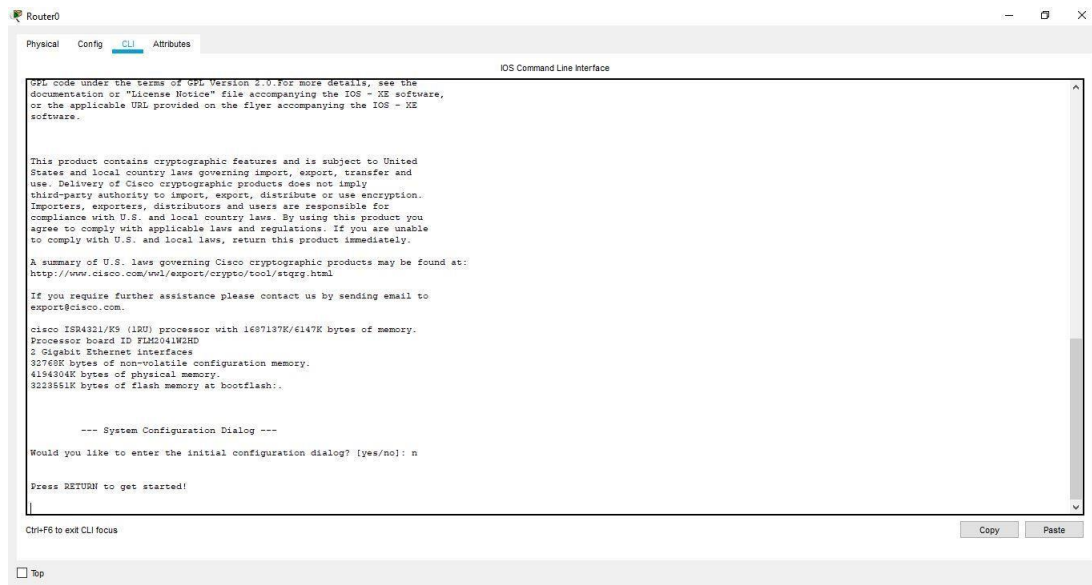
- Click on the working closet button on physical workspace.



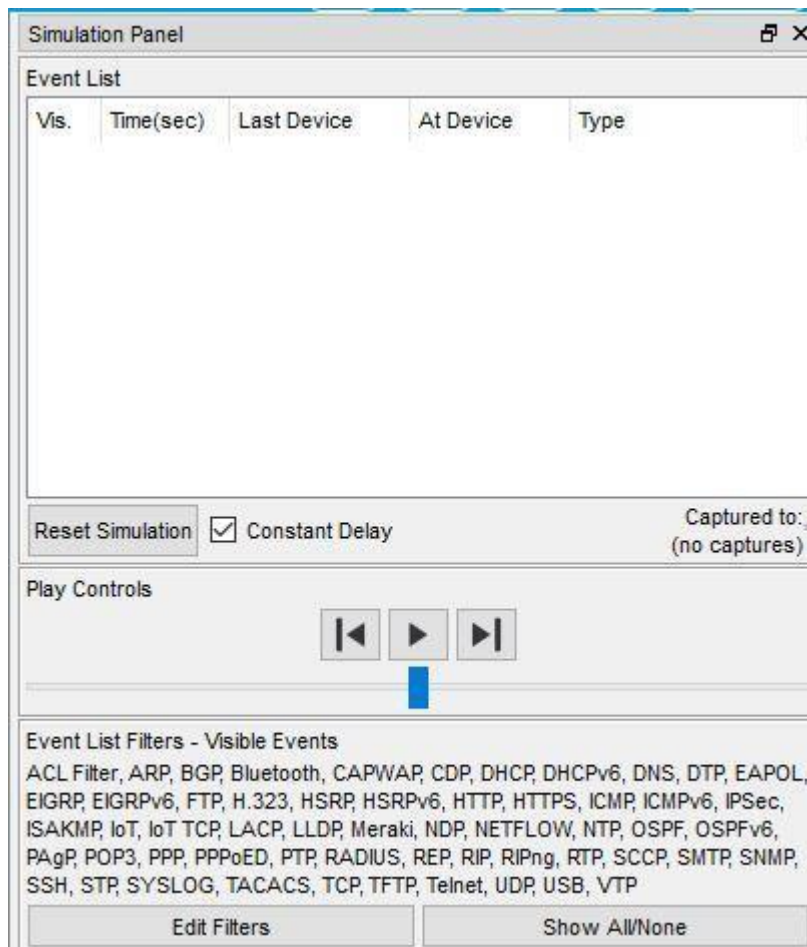
- Click on the logical workspace button and double click on the device you added. You will see the physical view of the device



8. Click on the CLI tab and you will get the command line interface of the selected device



9. Close the window and click on realtime button



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