Getting Started with Cisco Packet Tracer

Part 0: Cisco Packet Tracer Download.

Follow the instruction guide uploded in Blackboard.

Part 1: Introduction to Cisco Packet Tracer

Step 1: Open Cisco Packet Tracer

1. Launch Cisco Packet Tracer from your desktop or applications menu.

Step 2: Familiarize Yourself with the Interface

1. **Menu Bar:** Located at the top, it includes file, edit, options, view, and help menus.
2. **Toolbars:**
    - **Main Toolbar:** Located below the menu bar, includes tools for creating and managing network elements.
    - **Simulation Toolbar:** Includes tools for controlling simulation speed and packet capturing.
3. **Logical Workspace:** The central area where you build and manage your network topology.
4. **Device-Type Selection Box:** On the bottom-left, this box is used to select different types of devices, such as routers, switches, PCs, etc.
5. **Device-Specific Workspace:** Displays the components of the selected device, where you can choose specific models and interfaces.

Part 2: Creating a Simple Network Topology

Step 1: Add Devices to the Workspace

1. In the Device-Type Selection Box, select "End Devices."
2. Drag and drop two **PCs** (PC-0 and PC-1) onto the Logical Workspace.
3. Switch to the "Network Devices" category and select "Switches."
4. Drag and drop one **Switch** (Switch-0) onto the Logical Workspace.

Step 2: Connect the Devices

1. Select the **Connections** icon (lightning bolt) from the Main Toolbar.
2. Choose a **Copper Straight-Through** cable.

3. Click on **PC-0**, select the **FastEthernet0** interface, then click on **Switch-0** and select **FastEthernet0/1**.
4. Repeat the same process to connect **PC-1** to **Switch-0** using the **FastEthernet0/2** interface on the switch.

Part 3: Configuring the Devices

Step 1: Configure IP Addresses

1. Click on **PC-0** and then click the **Desktop** tab.
2. Open the **IP Configuration** tool.
3. Assign an IP address of **192.168.1.2** with a subnet mask of **255.255.255.0**.
4. Repeat steps 1-3 for **PC-1**, assigning it an IP address of **192.168.1.3** with the same subnet mask.

Step 2: Verify Connectivity

1. Return to the Logical Workspace.
2. Click on **PC-0**, go to the **Desktop** tab, and open the **Command Prompt**.
3. Type ping 192.168.1.3 and press **Enter**.
4. Observe the ping results to verify connectivity between PC-0 and PC-1. Successful ping results will confirm that the devices are correctly connected and configured.

Part 4: Using the Simulation Mode

Step 1: Switch to Simulation Mode

1. Click on the **Simulation** tab at the bottom right of the interface.

Step 2: Capture and Analyze Packets

1. In the simulation mode, click on **Add Simple PDU** (envelope icon) in the Simulation Toolbar.
2. Click on **PC-0** and then **PC-1** to simulate sending a packet from PC-0 to PC-1.
3. Observe the simulation in the Event List.
4. Use the **Play** button in the Simulation Toolbar to step through the simulation and watch how packets travel through the network.

Part 5: Save Your Work

Step 1: Save Your Packet Tracer File

1. Go to **File > Save As**.
2. Save your project with an appropriate name, such as My_First_Network.pkt.