3. Test and Send Messages

3.1. Verify Connectivity

Ping Test:

- Open Command Prompt on PC1 (Desktop > Command Prompt).
- If successful, repeat to ping other PCs on the same switch.

2. Ping Between Switches:

- If switches are interconnected, test communication between PCs on different switches:
- Ensure connectivity is successful. If not, check inter-switch connections and IP configurations.

3.2. Send Messages Using Simulation Mode

Switch to Simulation Mode:

Click on the "Simulation" tab at the bottom-left of Packet Tracer.

2. Add Simple PDU:

Click on "Add Simple PDU" (packet icon) in the Simulation Mode toolbar.

3. Select Source Device:

Click on PC1 (the source of the message).

4. Select Destination Device:

Click on PC6 (the destination for the message).

5. Configure the Message:

A dialog will appear. Click "OK" to send the message.

6. Observe Packet Flow:

- Click the "Play" (triangle icon) to start the simulation.
- Watch the packet flow from PC1 to PC6 across the switches.

3.3. Examine Packet Details

View Packet Details:

 Click on the packet in the simulation window to view details about the packet's journey and processing.

2. Check Received Message:

 On PC6, open Command Prompt to verify if the message has been received or not.

Summary

- Set Up Network: Add and connect 10 PCs and 2 switches.
- · Configure IP Addresses: Assign IP addresses to each PC.
- Test Connectivity: Use ping tests to verify network communication.
- Send Messages: Use Simulation Mode to send and observe messages between PCs.

By following these steps, you can successfully set up a network in Cisco Packet Tracer, connect devices, and simulate sending messages between PCs.

1. Set Up the Network

1.1. Add Devices

- 1. Launch Cisco Packet Tracer:
 - Open Cisco Packet Tracer on your computer.
- 2. Add PCs:
 - Drag and drop 10 PC devices onto the workspace.
- 3. Add Switches:
 - Drag and drop 2 Switch devices (e.g., 2960) onto the workspace.

1.2. Connect Devices

- 1. Connect PCs to Switches:
 - Click on the "Connections" tool (lightning bolt icon).
 - Select Copper Straight-Through cable.
 - Click on a PC and select the FastEthernet0 port.
 - Click on a Switch and select an available FastEthernet port (e.g., Fa0/1).
 - Repeat for the remaining PCs and switches.
- 2. Interconnect Switches (Optional for Larger Networks):
 - If you want Switch 1 and Switch 2 to communicate directly:
 - Click on Copper Straight-Through cable.
 - Click on Switch 1 and select an available FastEthernet port (e.g., Fa0/24)
 - Click on Switch 2 and select an available FastEthernet port (e.g., Fa0/24).

2. Configure IP Addresses

2.1. Configure IP Addresses on PCs

- 1. Open PC Configuration:
 - Click on PC1 and go to the "Desktop" tab.
 - Open "IP Configuration".
- 2. Assign IP Address:
 - Set the IP address, subnet mask, and default gateway. For example:
 - PC1:
 - IP Address: 192.168.1.2
 - Subnet Mask: 255.255.255.0
 - PC2 to PC5:
 - Assign IP addresses in the same subnet (e.g., 192.168.1.3 to 192.168.1.5).
- 3. Repeat for PCs on Switch 2:
 - PC6:
 - IP Address: 192.168.2.2
 - Subnet Mask: 255.255.255.0
 - o PC7 to PC10:
 - Assign IP addresses in the same subnet (e.g., 192.168.2.3 to 192.168.2.5).





