Computer Networks

Lab Assignment Documentation

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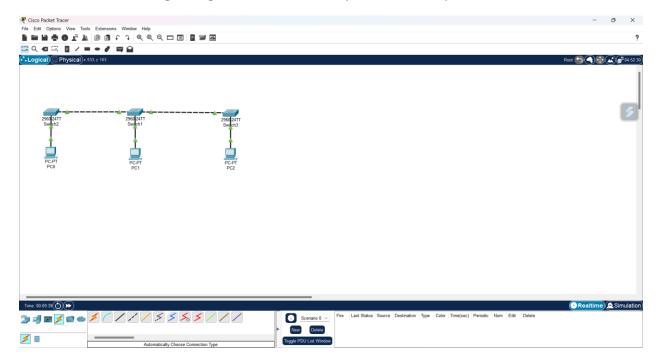
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Lab 1: Implementation of Network Topologies

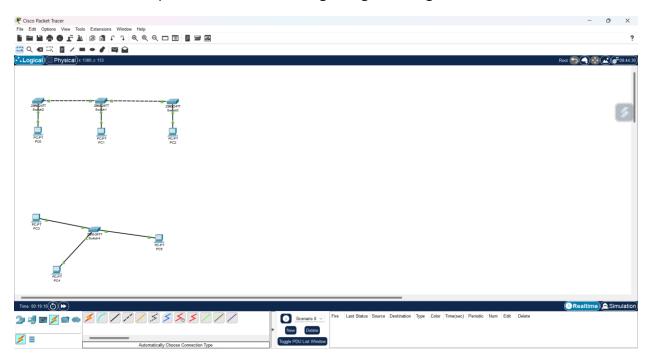
Procedure:

- 1. Open Packet Tracer:
- Launch Cisco Packet Tracer on your computer.
- 2. Implement a Bus Topology:
- Drag three computers onto the workspace.
- Connect them using a single backbone cable (Coaxial Cable).

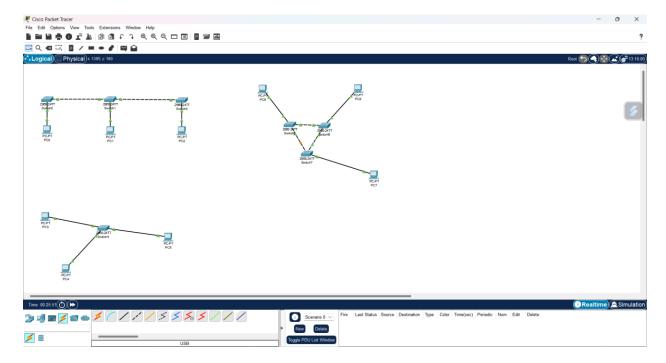


- 3. Implement a Star Topology:
- Drag three computers and a switch onto the workspace.

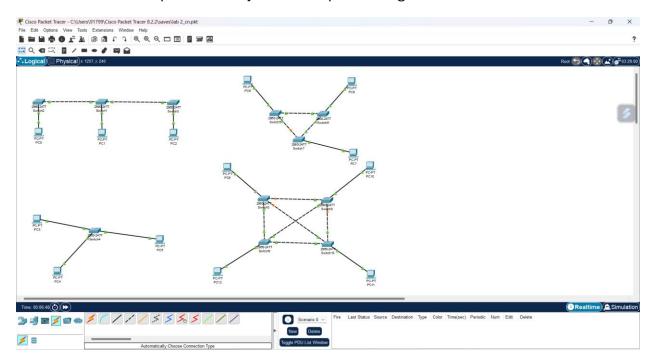
■ Connect each computer to the switch using straight-through Ethernet cables.



- 4. Implement a Ring Topology:
- Drag three computers onto the workspace.
- Connect them in a circular manner using crossover cables.



- 5. Implement a Mesh Topology:
- Drag three computers onto the workspace.
- Connect each computer to every other computer using crossover cables.



6. Test Connectivity:

- For each topology, assign IP addresses to the computers.
- Use the "ping" command to test connectivity between all computers.

