

EXP:04

Setup and configure a LAN (Local area network) using a Switch and Ethernet cables in your lab.

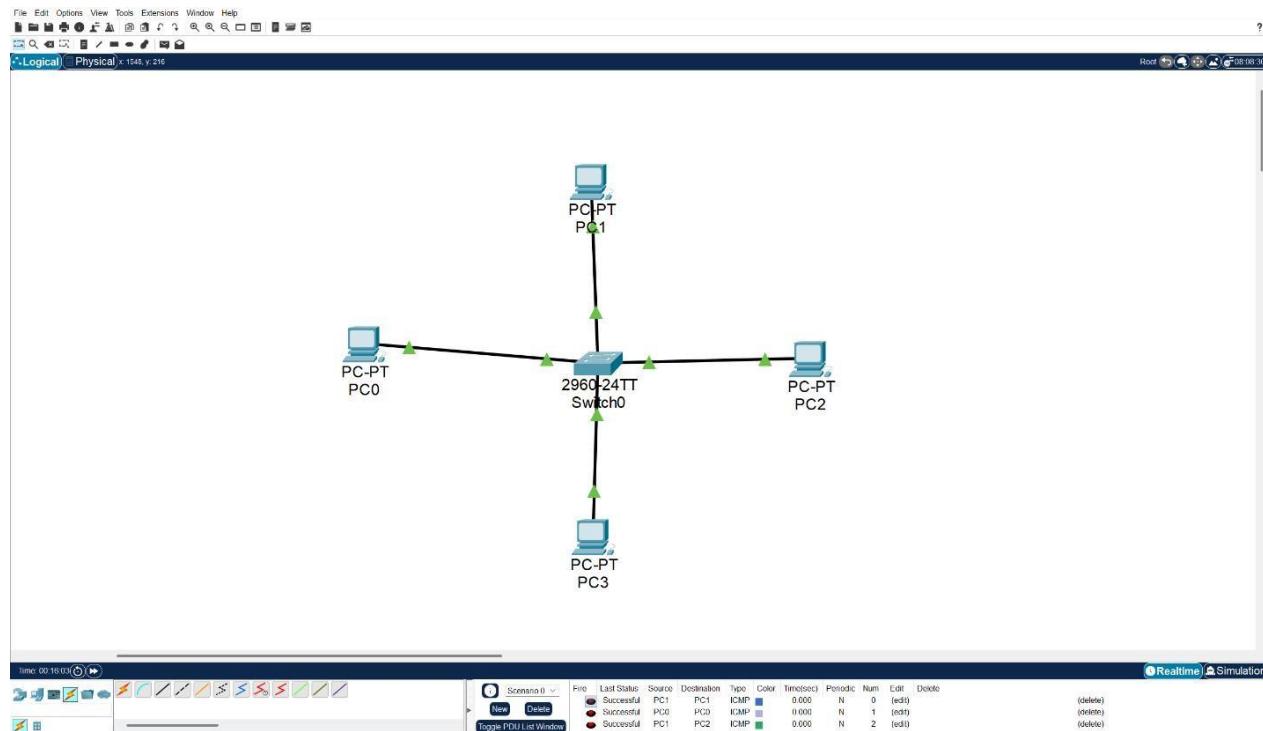
Aim

To set up and configure a Local Area Network (LAN) using a Switch and Ethernet cables and to test connectivity and file sharing.

Algorithm / Procedure

1. **Connect** 3-4 host machines to a central **Switch** using Ethernet cables.
2. **Assign** static or dynamic IP addresses to each host machine within the same subnet.
3. **Verify** connectivity between all host machines using the ping command.
4. **Configure** file and folder sharing settings on one of the host machines.
5. **Access** the shared files and folders from the other machines on the LAN.

Output Image:



Result:

A functional LAN was successfully set up and configured. Connectivity was verified using the ping command, and file sharing across the network was demonstrated.