

Exp: 04

06/08/24 Configure & Setup a LAN using Switch.

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Aim:- Setup and configure a LAN using a switch and ethernet cable in lab.

What is LAN?

A Local Area Network refers to a network that connects devices within a limited area such as office building, school (or) home. It enables users to share resources including Internet access.

How to set up LAN

Step 1:- Plan and Design an appropriate network topology taking into account network requirement and equipment location.

Step 2:- You can take 4 Computer, a switch with 8, 16 (or) 24 ports which is sufficient for network of these sizes and 4 ethernet cables.

Step 3:- Connect your computer to network switch via an ethernet cable which is as simple as plugging one end of ethernet cable into your computer and other end into your network switch.

Step 4:- Assign IP addresses to your PC.

1. Log on to the client application (Computer) as Administrator or as Owner.

2. Click Network and Internet Connection.

3. Right click Local Area Connection/Ethernet → Go to Properties → Select Internet Protocol (TCP/IP) → click on Properties → Select use the IP address option & assign address



Step 5:- Configure a network switch

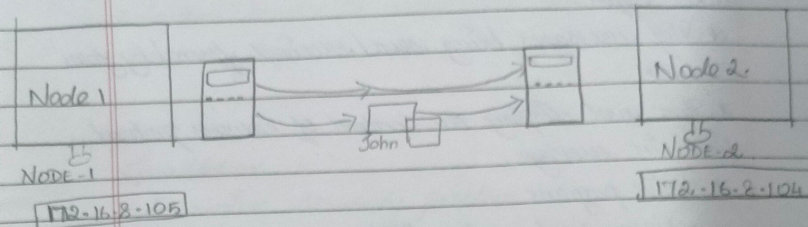
1. Connect your computer to switch: To access the switch's web interface, you will need to connect your computer to switch using ethernet cable.
2. Log in to the web interface: Open a web browser and enter the IP address of switch in address bar. This should bring up the login page for the switch's web interface. Enter the username and password to log in.
3. Configure basic setting: Once you're logged in, you will be able to configure basic setting for switch.
4. Assign IP address.

Step 6:- check the connectivity between switch and other machine by ping command in command prompt of the device

Step 7:- Select a folder, → go to properties → click sharing & share it with everyone on the same LAN.

Step 8:- Try to access the shared folder from other computer of the network.





Outcome:- Thus, the file that sent through 172.16.8.104 is sent successfully.

Node 1 :- 172.16.8.105

Node 2 :- 172.16.8.104

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Result:- Thus, the setup and configure a LAN using a switch and ethernet cable is successfully done.