

Ex no: 4

Setup & Configure a LAN

Aim  
Setup and configure a LAN using  
Switch Ethernet Cabel in your lab

LAN

A Local area network refers to a network that connects devices within a limited area such as office, school

It enables users to share data resources including data, printer & internet access. LAN connects devices to promote collaboration and transfer information between users, such as computers, printers, servers and switches

How to setup LAN

Step 1. Plan & Design an appropriate network topology taking into account network requirements & equipment location.

8, 16 or 24 ports which is sufficient for network of these sizes. 24 ethernet

Step 3: Assign IP address to your PC

- i) Log on to the client com
  - ii) Click network & internet connections.
  - iii) Right click Local area connection (ethernet)
- Go to properties → Select Internet Protocol (TCP/IPv4)
- Click on properties → Select use the following IP address

Step 4: Configure network switch  
Connect computer to switch

Step 5: Select folder - go to properties → click  
Sharing tab → Share it with everyone

Step 6: Try to access the shared folder from  
other computers

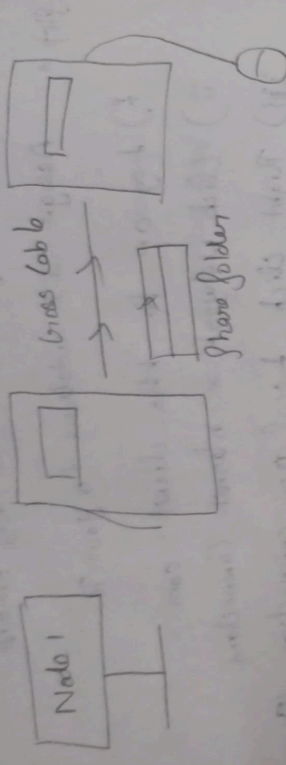
IP Config

Node 1 IPV4 Address 10.1.1.1

Node 2 IPV4 Address 10.1.1.2

Outcome

The file sent through client run, [1] 10.1.1.2  
/user/IREC is sent successfully.



Node 2

10.1.1.2

Node 2 is assigned  
the address 10.1.1.2

Node 2 is assigned the address 10.1.1.2

Result  
LAN Setup in our lab is successfully  
installed.