

Exp. No: 4

## Setup & Configure LAN

Date: 6.8.24

Aim: Set up and configure a LAN using switch and ethernet cable in your lab.

What is 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 resources including data, printer & internet access.

How to set up LAN?

Step-1: Plan & design as appropriate network requirement & equipment location

Step-2: Connect computer to network  
like connect one end of ethernet cable into your computer & other end to your network switch.

Step-3: Assign IP address to your PC

- 1) Log on to the client computer.
- 2) Click network & internet connection
- 3) Right click LAN connection / ethernet  
→ go to properties → select internet protocol

→ click on IP address  
PCI-IP address

Step 4: Configure

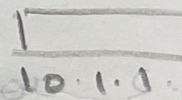
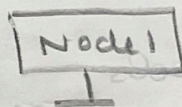
1) Connect

Step 5: Select  
→ Sharing to

Step 6: try to  
ethernet

Student, O

Diagram



IP Con

Node

Node

Outcom

[ 1/1 ]

Success

Result



→ click on properties → select use of properties  
IP address option and assign IP address

PCI-IP address : 10.1.1.1 subnet mask :  
255.0.0.0

Step 4: Configure network system

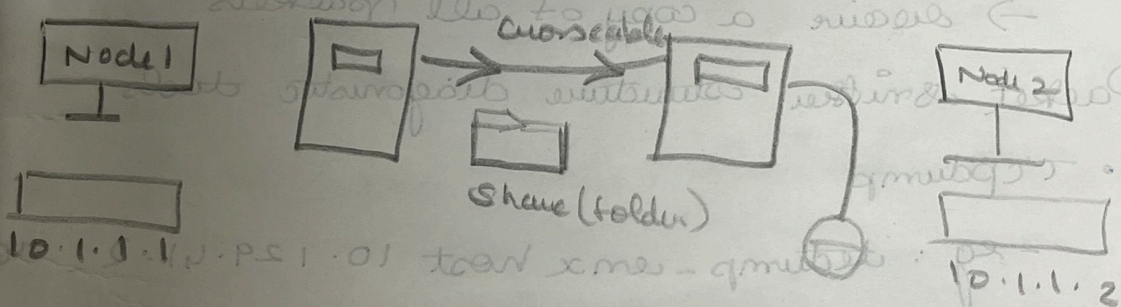
1) Connect computer to switch

Step 5: Select folder → go to properties → click  
→ Sharing tab → share with everyone

Step 6: try to access the shared folder from  
other computer of network

Student Observation:

Diagram of LAN:



IP Configuration

Node 1 IPv<sub>4</sub> address 10.1.1.1

Node 2 IPv<sub>4</sub> address 10.1.1.2

Outcome

The file sent through click seen:

[110.1.1.2] \user \Rec is sent  
successfully.

Result: LAN setup in lab is done successfully