Experiment - 4

Date 6-8-24

AIM

Set up and configure a LAN using Switch & 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 enable users to share resources including data, printer & internet access

How to set up a LAN?

Step 1: Plan & design an 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 LA Connection/ethernet
→ go to properties → select internet protocol

→ Click on properties → Select use of
properties ip address option and assign
ip address

⊙ PC1-IP address : 10.1.1.1 Subnet mask-
255.0.0.0

Step 4: Configure network switch
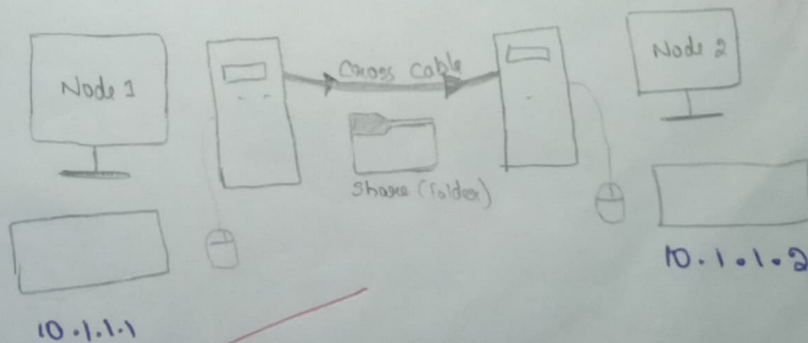i) Connect computer to switch

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

Step 6: Try to access the shared
folder from others computer of the
network

Student Observation

Diagram of LAN

Node 1

Cross cable

Shared (folder)

Node 2

10.1.1.1

10.1.1.2

IP Configuration

Node 1	IP V4	Address	10.1.1.1
Node 2	IPV4	Address	10.1.1.2

Outcome

The file sent through
click Run: [1/10.1.1.2]/usa [1Re c] is
sent successfully

Result

LAN setup in our lab is successfully
done & completed.

6/8/24