

EX: 4

Date: 6/8/2024

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

~~Aim:~~

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

What is a LAN?

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

How to set up a LAN

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

Step 2: Connect your computers to network switch via an Ethernet cable, which is as simple as plugging one end of the Ethernet cable into your computer and the other end into your network switch.

Step 3: Assign IP address to your PCs.

- 1, Log on to the client 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/IPv4) → click on Properties → select use the following ip address option and assign IP address.

Step 4: Configure network switch

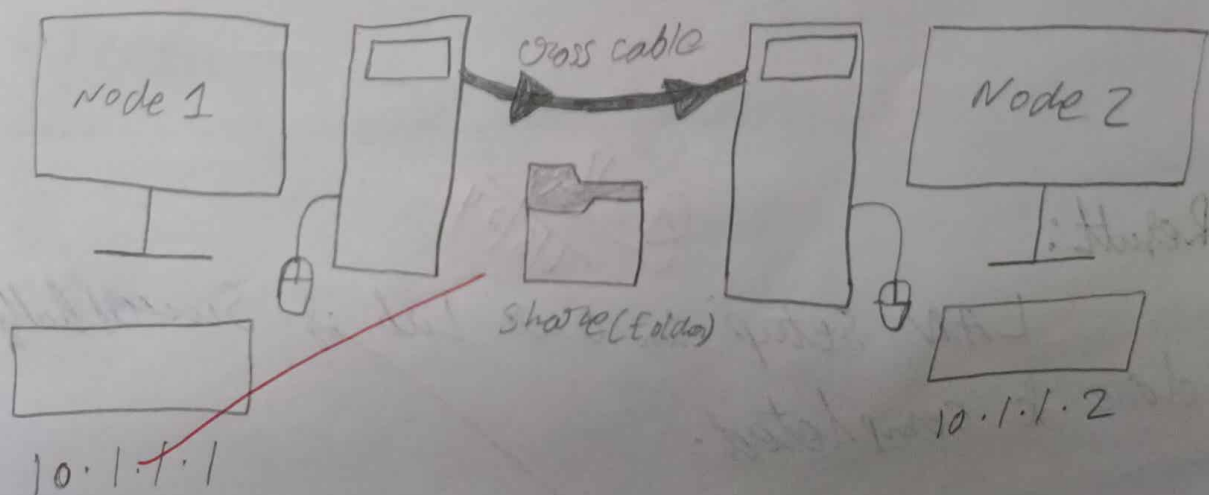
- 1, connect computer to switch

Step 5: Select Folder → go to Properties → click Sharing tab → share it with everyone

Step 6: Try to access the shared folder from other's computer on the network

Student Observation

Diagram of LAN



## IP Configuration

Node1 IPv4 Address 10.1.1.1  
Node2 IPv4 Address 10.1.1.2

## Outcome

the file sent through click Ros:  
[4/10.1.1.2]/user [1REC] is sent successfully

Result:

*[Signature]*  
11/8/24

LAN setup in our Lab is Successfully  
done & completed.