AIM: Setup and configure a LAN using a Switch and Ethernet cables in your lab.

How to setup a LAN

Step1: Plan and Design, an appropriate network topology taking into account network requirement and equipment location

Step2: You can take 4 computers, a Switch with 8, 16 Or 24 ports Which is sufficient for networks of these sizes and 4 Ethernet cables

Step3: Connect your computers to network switch via Ethernet cable Which is as simple as plugging one end of the Ethernet cable into your computer and the other end into your computer network Switch

Step4: Assign IP address to your PC's

     1. Log on to the client computer as Administrator or as Owner

     2. click Network and Internet Connections

     3. Right click Local Area Connection/Ethernet

Step5:- Configure a network switch

     1) Connect your computer to Switch.

     2) Log on to web interface

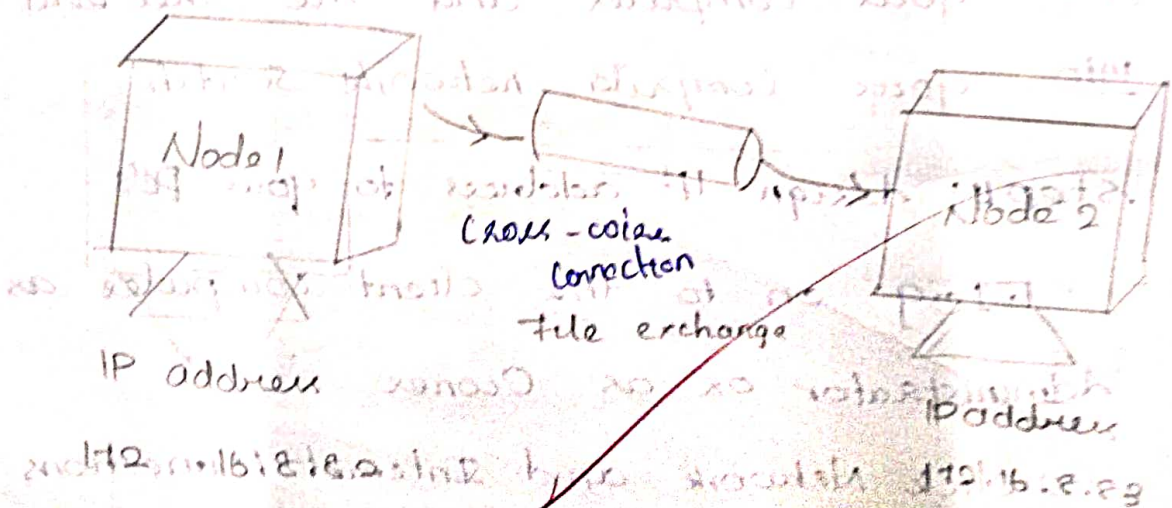3. Configure basic Settings once your logged in you will be able to configure basic setting

4. Assign IP addresses as 10.1.1.6 subnet Mask 255.0.0.0

step 6:- check connectivity between switch on Other Machine by using ping commands the command prompt of device

Step 7:- select a folder → go to properties → click sharing tab → share it with everyone to the same LAN

Step 8 - Tyry to access the shared folder from others computers of the network.

Student observation:-

Node 1

Cross-coiar conection

file exchange

Node 2

IP addres

172.16.3.5a....

IP addres

69.5.4.121

Result :-

IP configuration:

Node 1:

    IPV4 Address : 172.16.8.82

Node - 2:

    IPV4 Address : 172.16.8.83

Outcome :-

The file that sent that through [click Run : [///172.16.8.82] → /users //REC //Desktop>] is sent successfully.

Result:-

Thus the set up LAN is using switch and Ethernet cables is successfully connected and sent files.