

31/07/2024

Experiment:- 4

AIM:- Setup and configure LAN using ethernet cable

What is LAN?

A LAN refers to a Local area network within a limited area that connects an office building, school or home. It enables user to share data within network.

How to setup LAN:-

1. Plan and Design appropriate network topology and equipment location.
2. You can take 4 computers a switch and 4 network cables.
3. Connect the computers to network via ethernet cable by plugging in cables.
4. Assign IPs to the PC:
 - i) Login to client as Admin
 - ii) Click Network and connection
 - iii) local area \rightarrow Go to properties \rightarrow select IP (IPv4) \rightarrow Select IP address option and assign ip address.

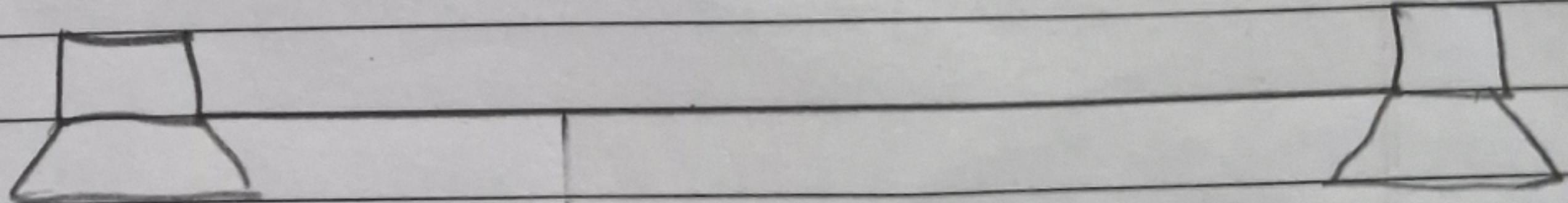
Internet cables

Similarly assign IP address to all PCs.

PC1 - IP address 10.1.1.1 subnet 255.0.0.0
PC2 - IP address 10.1.1.2 Subnet 255.0.0.0
PC3 - IP address 10.1.1.3 subnet 255.0.0.0
PC4 -IP address 10.1.1.4 subnet 255.0.0.0

5. configure network.
 - (i) connect computer to switch
 - (ii) login to web interface
 - (iii) Configure basic settings
 - (iv) Assign IP address 10.1.1.5 , subnet 255.0.0.0
6. check connectivity between switches and machine by using ping command.
7. Select folder → go to properties → click Sharing tab → share it with everyone.
8. Try to share folders in the network.

STUDENT OBSERVATION:-



RESULT:-

Thus the setup and configuration of LAN has been executed.

21/10/2019