

Experiment: 4

Date: 6/8/24

ppalagot 1st

Aim:

Setup & configure a LAN using a switch & ethernet cables in your lab.

What is a LAN:

A local area network refers to a network that connects devices within a limited area.

How to set up LAN:

Step 1: Plan & design an appropriate network topology.

Step 2: Take 4 computers & 1 switch with 8, 16, or 24 ports which is sufficient for network of these sizes.

Step 3: Connect your computer to network switch via an ethernet cable.

Step 4: Assign IP address to your PCs.

Step 5: Configure a network switch.

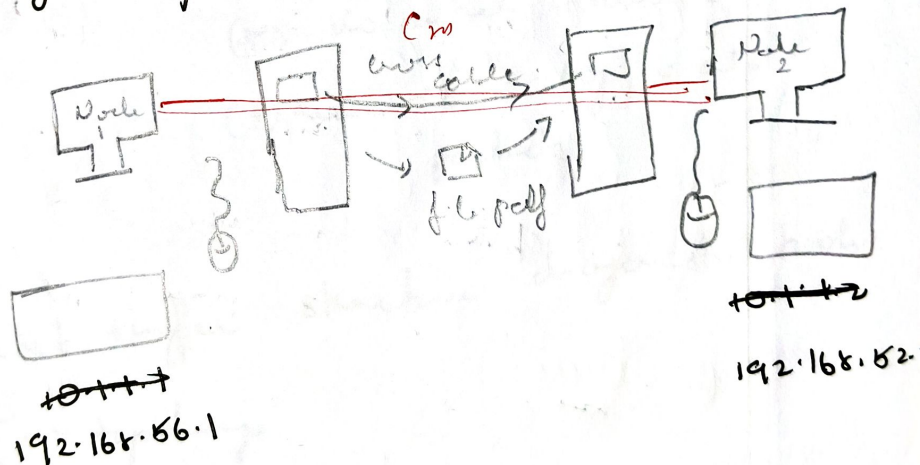
Step 6: Check the connection between switch & other machines by using ping command in the console prompt of the device.

Step 7: Select a folder; → go to properties → click sharing tab → share it with everyone on the same LAN.

Step 8: Try to access the shared folder from other devices.

Student Observation:

Diagram of the LAN:



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Outcome:

The file that sent through
[circle me: [192.168.82.1] → /user//rec
// desktop] is not successfully.

Result:

Set up for ~~LTL~~ is successfully done and the results are verified.