06/08/24

EXPERIMENT 04!

BET AND CONFIGURE A LAN CLOCAL AREA NETWORK) USING A SWITCH AND ETHERNET CABLES IN YOUR LAB

Aim:

To setup and configure a LANI using a switch and Etherinet caple.

steps:

Plan and design an approporate network topology taking STEP DA: into account network requirements and eautipment location.

You can take 4 computers, a switch with 8,16 or 24 ports STEP DA: which is sufficient for notwork of these vizes and 4 Ethernet ables.

connect your computers to network via an Ethernet rable STEP 03: which is as simple as plugging one end of the Ethernet cable into your computer and the other end into your network switch.

STEP 04:

Assign LP address to your PCS:

- 1. Long on to the client computer as Administrator or as owner
- a. Click Network and Internet connections
- 3. Right-click tocal Area connection/Ethernet -> go to Properties -> fullect Internet Protocol (TCP/1P4) -> Click on Properties -> Select use the following IP address option and assign IP address

STEP 05:

configure a network switch:

1. connect your computer to the switch: To access the switch's wer interface, you will need to connect your computer to the switch using an Ethernet cable.

: login to the web interface:

open a web browser and enter an IP address of the Switch in the address box. This should bring up the login page of the switch's web interface. Enter the warrame and password to login

3. Configure basic settings:

once you're egged in you will be able to configure basic settings for the suitch.

H Assign 1P address as: 10.1.1.5, subnet mask 255.0.0.0.

### STEP DE

Check a connectivity between switch and other machine by using ping command in the command prompt of the device.

### STEP 07:

Select a forder  $\rightarrow$  go to properties  $\rightarrow$  curck starting tab  $\rightarrow$  stare it with everyone on the same LAN.

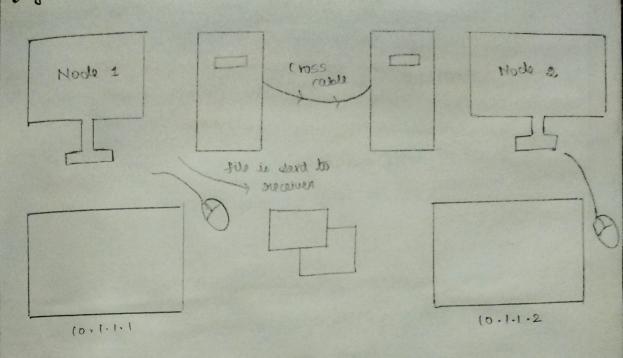
#### STEP 08:

Truy to occess the should folder from others computer of the

### Student Observation:

Draw a neat diagram of the LAN in the configuration observation book, that you have implemented in your lab. Write the outcome and charlege faced while configuring the LAN

Diagram of the LAN:



# IP configuration:

Address 10.1.1.1 Node -1: IPV4 Address 10.1.1.2 Node - 2 = 1PV4

# Actual steps:

- 1. Open cmd, inconfig: see the IPV4 Address in the Ethernet Adapter Ethernet
  - 2. Open sun, open: 11 [ 1844 address of a secciver PC].

Fg: Open: 11 10-1-1-1

- 3. After opening go to the were. Select REC GO to Desktop ! Documents | Downloads (wherever you evant)
  - 4. Ruste the file there to share in the receiver PC
- 5. Then clack the steceiver pc on the stespective distectory that can poleviously iselected and verify that the file have sent.

## Durcome:

The flue trai dent through Eclick Run. [//c/ype) 10.1.1.2] -> (181500 -> 11 REC/1 Desktop) is dent succenfully.

## Result:

thus, the structor that is dimentally configured and the dans is and and verified that the file transfer and account a studied.