

SETUP & CONFIGURATION

SWITCH AND ETHERNET

xp: 4

1/1/25

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SWITCH AND ETHERNET

Aim: To setup and configure a LAN usage of critical and ethernet cable in your lab.

What is LAN? A Local Area Network (LAN) refer to a network that connects devices within a certain area office building etc. It enables users to share resources, printers and ethernet answers.

PROCEDURE:

How to setup a LAN?

- 1) Plan and design an appropriate network.
- 2) You can take computers, a switch.
- 3) Connect your computer to network via an ethernet cable.

4) Assign IP address to your computer.

i) Log on to the client computer.

ii) Click network & internet communication.

iii) Right click Area Connection/Ethernet

Go to properties → select Internet

Protocol → Click on Properties → Select

use the following IP address option and assign IP address.

5) Configure a network switch

mon (a). Connect your computer to the switch. To access the switch's web interface, you will need to connect your computer to the switch using an Ethernet cable.

ii) Log in to the web interface: Open a web browser and enter the IP address of the switch in the address bar. This should bring up the login page for the switch's web interface. Enter the username and password to log in.

iii) Configure basic settings: Once you're logged in, you will be able to configure basic settings for the switch.

iv) Assign IP address as: 10.1.1.5 subnet mask 255.0.0.0

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

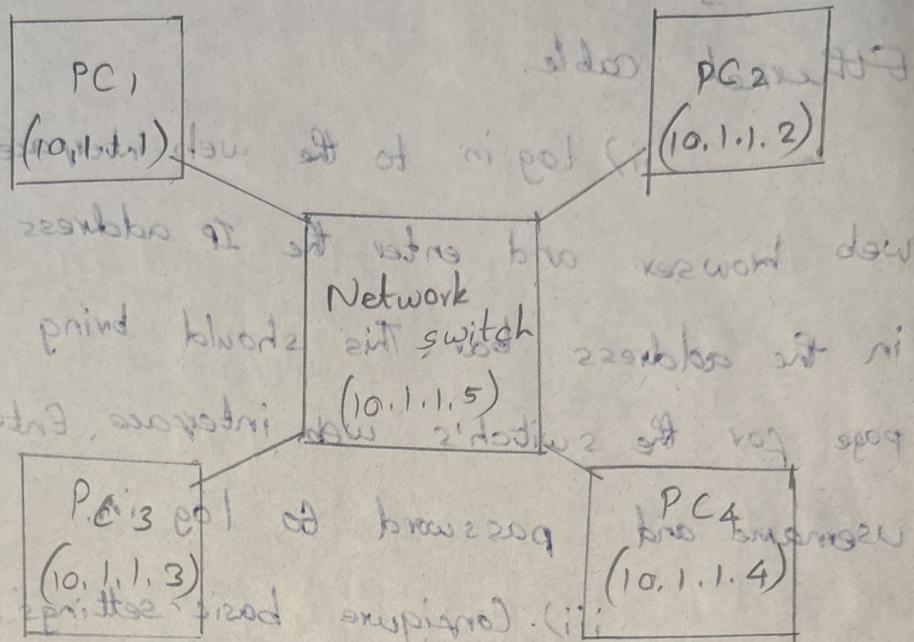
7) Select a folder → go to properties → click sharing tab → share it with everyone on the same LAN.

8) Try to access the shared folder from other computers of the network.

Software structure & configuration (e)

Q. Draw a set of diagrams w.r.t. LAN Configuration Diagram.

No given below set of components may form a complete LAN.



Given components of LAN are PC1, PC2, PC3, PC4 and Network switch.

Required individual IP address for each

PC1: 10.1.1.1
PC2: 10.1.1.2
PC3: 10.1.1.3
PC4: 10.1.1.4
Switch: 10.1.1.5

→ Assigning IP address to each

Since no previous file is there → do private file

Result:

Thus the setup and config of LAN using
switch & ethernet is done.