

PC
mode

Exp no: 01
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Practical - 04

Low Blue Light
UV Cut

AIM:

setup and configure a LAN (Local Area NETWORK) using a switch and ethernet cables in your lab.

What is LAN?

A Local Area Network refers to a network that connects device with limited area, such as an office building, school or home. It enables users to share resources, including data, pointers and internet access. LAN connects devices to promote collaboration and transfer information between users such as computers, printers, servers and switches. Each directed connected on a device on a LAN switch, can communicate directly on a each other, allowing for fast and secure transfer.

How to setup a LAN:

Step 1: Plan and design an appropriate network topology taking into account network requirement and equipment location.

Step 2: You can take 4 computers, a switch with 8, 16 or 24 ports which is sufficient for networks of these and 4 ethernet cables

Step 3: Connect your computers to network switch, via an ethernet cable which is simple as plugging one end of a ethernet cable into your computer and the other end into your network switch.

Step 4: Assign IP address to your PCs

- 1) ~~log on~~ to the client computer as ~~administrator~~ or as owner.

step

from

- 2) click network and internet connections.
- 3) right click local area connection / Ethernet →
Properties → select Internet protocol
TCP (IPv4) → click on properties - select use the
following ip addresses option and assign ip
address.

Step 5: Configure a network switch

- 1) connect your computer to the switch to access
the switch's web interface, you will need to
connect your computer to the switch using cable.

- 2) Log into 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 username and password to login

- 3) configure basic settings; once you're logged
in you will be able to configure basic settings
for the switch.

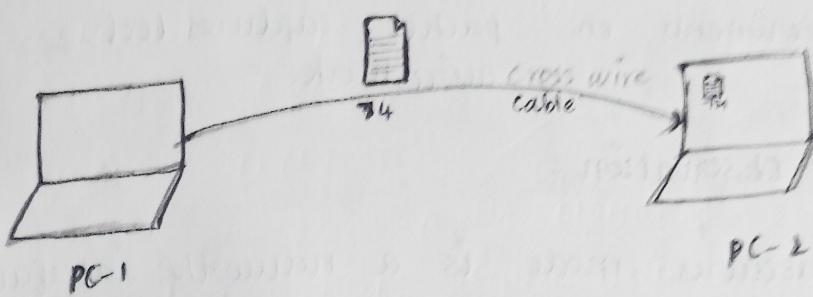
- 4) Assign IP address AS: 10.1.1.5, subnet mask
255.0.0.0.

Step 6: check the connectivity between switch
and other machine by using ping command in
cmd by the device

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

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



RESULT:

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Thus the setup and configure of LAN is studied and observed.