Exercise No:4

Aim: Setup and configure a LAN (Local Area Network)
Using a switch and Ethernet cables in your lab.
What is LAND

A Local Area Network refers to a metwork that connects devices within a limited area, such as an office building, school or home. It enables users to shale resources, including data, printers, a internet access. Each connected device on a LAN switch can communicate directly with each other, allowing for fast and secure data transfer.

How to slet up a LAN

Step1: Plan and design an approprate metwork topology taking into account network requirements a equipment docations.

Step 2: You can take 4 computers, a switch with 8, 16 or 24 ports which is sufficient for metworks of these sizes, and 4 Ethernet Cables.

Step 3: Connect your Computers to network switch via an Ethernet cable, which is as simple as plugging one end of the Ethernet cable unto your computer and the other end by your network switch.

- Step 4: Amign IP address to your PCA
- D'hog on to the client computers as Administer.
 Owner.
- 2) Click Network & Internet Connections.
- 3) Right click Local Area Connection / Ethernet > Go +
 Properties Select Internet · Protocol
- Step 5: Configure a network switch:
- 1) Connect you computer to mitch!
- 1) connect your computer to a switch to acess the switch's web interface, you will need to connect your computer to the switch ming an ethernet cable.
- 2) Log in to the week interface: open a meek browser and enter the IP address of the switch is the address bar enter warname 2 log in. 3) Configure basic settings.
- 4) Assign IP address as 10.1.1.5 subnet mark 255.0.0.0
- Step6: Check the Connecting between switch a other machine by using ping comment prompt.
- Step 7: Belect a poller go to properties -> click -> Maring Lab -> share It with everyone on the same LAN.
- Sheps: Try to access the shaced flodder from other Computers of Network.

Internet Protocol Version 4
General
You can get IP settings assigned
automatically if your network
supports this capability. Otherwise you
heed to ask upon network administer.
Obtain an IP address
Olse the 1P address:
1P address: [10.1.1.1]
Subnet mask: 255,0.0.0
default gatway:
O obtain DNS berrer address
OUse the dns Server address:
Preferred dns Surver:
🗆 Validate Setting upon exit
Advanced

Result:

Thus the setup and configure of

IAN has been studied.