AIM: Setup and configure a LAN (Lowd Asses Network) whigh a switch and Ethernet cables in your lab.

What is a LAN?

A local grea Network (LAN) refer to a helwork that connects devites within a limited area, tuch as an office building, althout ar home. It enables users to shore resources, including data, prehiters and inherent access. LAN connects devites to promote collaboration and bransfer information between users, then as computers, prehiters, derivers and switches. A local area network (LAN) switch derives as the prehising connecting device, managing and directly communications within the local network. Each connected device on a LAN switch can communicate directly with each other, allowing for fast and decure data transfer.

How to Letup a LAN

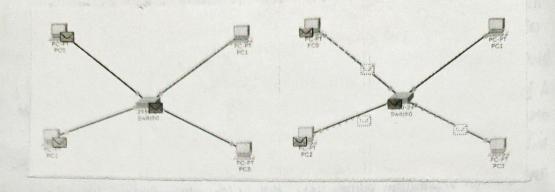
Step 1: Plan and design an appropriate network topology taking into account helwork requirements and equipment location.

Step 2: You can take 4 computers, a switch with 8,16 or 24 perds which sufficient for networks of these sizes, and 4 Ethernet coulse.

Step 2: Connect your computers to hetwork switch we an ethornet cable, what is as stropple as plugging one end of the Ethernet cable into your computer and the other end into your network switch.

Step 4: Assign IP address to your Pce

- 1. Log on to the client computer as Admisherterator on as Owner.
- 2. Week Network and Internet Connections.
- 3. Right Clar Local Area Connection (Ethernet > Gro to Bropertales > Select Intermet Protocol (TCP/1904) > Clar on Bropertales > Select use the following ip address option and assign ip address.



Similarly, assign IP address to all the PCs connected to switch.

PCI-IP address: 10.1.1.1, subset mark 255.0.0.0

Pt2-IP address: 10.1.1.2, Subnet Mark 255.0,0.0

PC3-IP address: 10.1.1.3, Subalt mask 255.0.0.0

PC4- IP address: 10.1.14, Subnet mask 255.0.0.0

Step 5: Configure a network switch:

- 1. Connect your computer to the switch: To access the switch is used interpace, you will need to connect your computer to the switch wring an Ethernet cade.
- 2. Log is to the web interface: open a web browner, and enter the IP address of the switch in the address bor. Thus should bring up the login page for the switch is web interface. Finter the wername and peaseword to login.
- 3. Configure basic settings: Once you're logged in, you will be able configure bootic settings for the stritch.
- 4 August 1P address as: 10.1.1.5, aubnet mask 255.0.0.0
- Step 6: Check the commeetively between stwitch and other machine by using ping command in the command preview of the device.
- Step 1: Felest a folder, go to peroposities -> clark sharing toub -> share it with everyone on the same LAN.

Step 8: Try to accept the shored folder from other computers of the network.

The LAN setup was created and implemented successfully. ATH TO discuss the hods were thoughten; are anything on he highestern Valoritation of the second of wanter there are done for the aid drew places that employed solute 3) 9 CP/UTA pring strong these strong sounds posted to the problem and VIA problem. MOL-900.1 Me application of Mayor H is a well-known food for heappoint relination of it it coupled beautiful go. M hooks and detecting summing service Minaply surging surger con he used to extent many supplies and remained supplied to mor respirations of retries a strategy and for and parameters at the freshlines, we have small me

Result.