Aim:

Setup and contigue a LAN using a Switch and Ethernet cables in your lab.

What is a LAN!

A local area network (LAN) before to a retwork that connects devices within a limited area. Such as an office building, school, or home. It printers and internet access. LAN connects devices between and internet access. LAN connects devices between a constant and transfer information and switches. A local area network (LAN) switch and disecting communications within the local switch can communicate device on a LAN connected device on a LAN connected according to the local switch can communicate directly with each other allowing the tast and secure dota

How to set up a con

Step-1. Plan and Design an appropriate retevork topology taking into account ratevork requirements and equipment location

Step 2: You can take 4 computers, a switch with e, 16 or 24 ports which is sufficient tor ratesorks of these sizes, and 4 ethernet cables

Step 8: Cornet your computers to network Switch Via an ethernet cable, which is as simple as Plugging one end of ethernet cable into your network Switch.

- Step4: Assign IP Address to your PC's
- I Log on to the client computer as Administrator Or as oconer
- 2. Click Nebook and Internet connections
- 3. Right click local Asses Cornection/ Ethernot -> Go to properties -> select internet protocol (TCP/IPV4) -> click on properties - select use the tollowing ip address option and assign ip address.

Similarly assign IP address to all the PCO connacted

PC1-1P address: 10.1.1:1, Subret mosk 255.0.0.6 PC2-1P address -10.1.1.2, Subnetmask 255.0.0.0 PC3-IP address 10.1.1.3 Subrotrask 255.0.0.0 PC4-IP address 10.1.14, Subject mask 255.0.0.0

Contigue a retarosk switch.

- 1. Connect your computer to the switch: To coos the Switch's web interface, you will need to correct your computer to the switch using an
- 2. Log in to the Web intertoa: Open a arebboarses and enter the IP address of the said in the address bar. This should bring up the login page too the switch's web intertal.
 - 3. Configure Louic settings: Once you're logged in you will be able to configure bource settings for the south.

4. Assign 1P adobres as 10.1.15, Subnet mark

Stop6: check the correctivity between Switch and other machine by using ping command in the command prompt of the

Step 7: Select a tobles o go to properties on the Same LAN

Step 8. Try to does the should to bles to on others computers of the reterook,

Stadent Observation:

PC-01

PC-02

PC-02

Result:

LAN using a switch and Ethernets
cables in Our lab