To setup and configure a LANCLOGAL area network) using a switch and etheenet cables in your lab

LAN (Local Area Network) sefers to a network that corned devices within a limited acce, such as an office building, school, or home. It enables uses to share vescures,

including data, printers, and internet access. LANConnects devices to promote collaboration and transformation between users, such as computers, printers, seewers & swifthers Each connected device on a LAN switch can communicate directly with each other, allowing for fast and secure data transfer.

How to set up a LAN

Step 1: Plan and design ar appropriate network topdogy taking into account network requirements and

. Step 2: You can take 4 Computers, a switch with 8,16, 08, 24 ports which is sufficient for networks of these sizes and 4 etheenet cable

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

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Step 4: Assign IP address to your PCs 1. Log on to the client computer as haministrator or as Owner 2 click network and internet connections 3 Right click Local Area Connection / Etheonet - Sho to properties Select Internet Protocol -> Click on properties -> Select
use the following ip address option 4 assign ipaddress Control Panel > Network & Internet > Notwork Cornection Networking Shaving Networking Showing

IP version 4 (TCP/IPV4) Properties

O Obtain on IP address audomatically

O Use the following IP address

Up address

Subnot mask

Default gateway

Out the deliberation of the second of the se Our the following DNS server addresses; Preferred DNS server ... □ validate settings upon exist Advanced Similarly assign IP address to all the PCS connected to switch PCI-IP addrex: 10.1.1.1, Subnetmat 255.0-0.0 PC2-1P address: 10.1.1.2, subnetmast 265.0.0.0 Step-5 configure a network switch: I connect your ned computer to the soutch: to access the switch's web interface, you will need to

connect your computer to the switch using an

Etheenet cable.

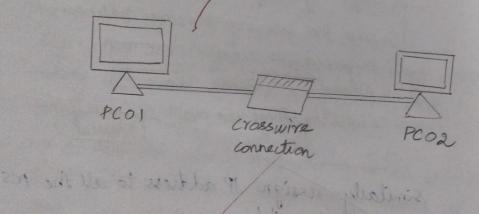
2. Log in to the web interface: Open a web browser and enter the 11 oddress of the sixteh in the address box.

2. Configure boxic settings: Once you're logged in, you will able to configure basic settings for switch

4. Assign IP address as 10.1.1.5 subject may 2000

A Assign IP address as 10.1:1.5, subnet mas 2850.0 step 6: Check the connectivity between switch and other machine by using ping command in the command prompt of the device

Step 7: Select a golder -> go to properties > click shaving tab-> share it with everyone one the same LAN Step 8: Try to access the shared folder from other Computers of the network



Result:

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