Aim: - Setup and configure a LAN (double were network) using a Switch and Ethernet cubles in your lab What is a LAN?

A Local Aged Network (LAN) refers to a network that connects devices within a limited week, such as an office building school, or home. It enables were to share resources including data, pointers and interent occess. LAN connects devices to promote collaboration and transfer information between users, such as computers, posenters, servers and switches. A local area network (dAN) Switch serves as the promary connecting device, managing and directing communications within the local network, Each connected device on a LAN switch can communicate dirutly with each others, allowing for fast and secure data transfer.

How to set up a LAN:

Step 1:- Plan and Design un appropriate netwesk to pology baking into a account network requirements and equipment location.

- Step 2:- You can take 4 Computers, a Switch with 8, 16, 00 >4 posts which is sufficient for network of there sizes, and 4 Ethernet cables.
- Step 3:- Connect your computers to network switch via an Ethernot cable, which is an swiple as plugging one end of the Ethernot cable into your computer and the other end into your network switch.

Step 4: - Arnign IP address to your PCs

- If Log on to the client computer as Administration
 - 2) Click Network and Internet Connections.
 - 3) Right claim Local Area Connection/Ethornot -> Car to Properties -> Select Internet Pootscol (TCP TIPVA) -> Click on Properties -> Select was the following ip address option and arrigh ip address

Similarly arign IP address to all the Pls commented to switch.

PCI-IP address: 10.1.1.2, Subnet mark 255.0.0.0

PC3-IP address: 10.1.1.2, subnet mark 255.0.0.0

PC3-IP address: 10.1.1.3, subnet mark 255.0.0.0

PC4-IP address: 10.1.1.4, subnet mark 255.0.0.0

Independ Pootocal Version 4 (TOP ITPV4) Properties X
Greneral Commentially
You can get IP settings amoned automatically
il was network supports this lafter
a Hansking will held to work you
administration for the appropriate
O Obtain ar IP address automatically
• Use the following IP address:
IP address: 10-1-1-1
Subnet mark: 265. 0. 0. 0
Default gaturay:
O Obtain DNS Server address automatially
O Use the following DNS server addresses
Perferend DNS severo:
Alternata DNS severs:
Validate setting upon out Advanced.

Step 5:- Configure a network suitch:

In a

1) Connect your computer to the suith To access
the suith's web interface, you will need to connect your
computer to the suith using an Ethernet cuble.
2) Loy in to the web interface Open a web bowses
and ertor the IP address of the switch in the
address bor. This should borry up the login page too

the suitch's use interface. Enter the username and parawood to log in.

- 3) configure basic rettings: Once you're logged in, you will be able to configure basic settings for the witch.
 - 4) Arrign IP addrews as: 10.1.1.5, subnot mark 2550.0.0

Stop: 6:- Check the connectivity between switch and other machine by using pung command in the command prompt of the device.

Step 7: - Select a folder, -> go to posperties -> Chih Sharing tab -> Share it with everyone on the Same 2AN.

Step 8: Psy to access the shared folder from other computer of the neutrost.

Result!
Thus LAN (hour ares network) using a Switch and theind whiles are retup and configurated surenfully.