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Aim:

setup & configure a local Area Network using a switch & ethernet cables in your cal.

what is LAN:

A local Area Network refers to a network that connects device within a limited ranea, such as an office building, school or home. It enables resent to share resources, including data, pointers & internet access. LAN connects devices to promote collaboration & transfer information between users such as printers, sowers & switches. Sach directed connected device on a LAN switch can communicate directly with each other allowing for fast & secure data transfer.

How to Setup a LAN?

step-1: Plan and design an appropriate network topology taking into account network requirement & equipment location.

Step-2: you can take 4 computers, a switch with 8, 16 or 24 ports which is sufficient for networks of these & 4 ethernet cables. step-3; connect your computers to network switch via an athernet cable, which is simple as plugging one end of the ethernet cable into your computer & the other end into your network switch. Step-4: Assign IP address to your PCS. 1) log on to the client computer as administrator or as surer 2) Mick network & internet connections 3) Right click local area connection / ethernet > yo to properties - Select IP (T(P(IPV4) -) click on properties - select use the following IP addresses option & assign IP address. Step -5: configure a network switch juted at wit. 1) cornect your computer to the switch to access the switch's wel interface, you will need to connect your compriter to the switch using an

- 2) Long into the wel interface: open a wel browser & enter the IP address of the switch in the address bar. This should bring up the login page for the switche's wel interface. Enter resourance & possword to login.
- 3) configure basic settings: once you're logged in you will be able to configure basic settings for the switch
- 4) Assign IP address A.S: 10.1.1.5, Subnet mask 255.0.0.0

step-6: check the connectivity between switch & other machine by using ping command in command prompt by the device

Step-7: Select a folder - go to properties - click shaving tale - Shave it with everyone on the

Same LAN

step-8: Try to access the shaved folder from others computers to the network.

his to all Margarit student observation: other of the return he adding top-6 that the connectivity between have broding by mind from month command prempt by the device step-1: Litet a follow of the properties Showing take a star at with oney Thus the setup & configure, of LAN is studied & observed. 18/W