Enerch No 14 31/07/24

Setup and configure a LAM (Cocal Ama Network) whing a switch and Etherenat cololes in your lab.

what is Lab? A local area network refers to a network that connects devices within a limited area, buch as an to share resources, including data, printers & interest acers. Each connected device on a LAN switch con Communicate directly with each other callowing for first and seure data transper.

How to setup a LAN?

Step1: Plan and design an appropriate network topology taking into account network sugnisement & equipment

step 2: you can take 4 computers, a switch with 8,16, or 24 parts which in sufficient for network of there sizes and 4 ethernet calles

on ethernot table which is a simple as plugging one end of the ethernet table into your computer and the other and is to your network switch

Step 4: Assign IP address to your PC'y

- 1) Los onto the client computer as administer or
- 2) click betwork & Internet connections.

3 Right click local area connection / effect -> Goo to Properties > Select Internet purposal (ter/104)-Click on peoperties - select we the jollowing ip address option and assign ip address Interest parotocal Version - a Cremeral you can get it setting artisand automobile it your network supports this capability. Obtain 19 addows - . we the 19 address 10.1.1.1 [w.1.1.1 Subnet mask: [255.0.0.0] default gaturay: [] Beeford dos deven: [...]

Attende don Surver: [...]

B Validate Setting upon exist Advancent.

Step 5: configure a network switch. Donneet your computer to a mitch: To access the switch's web interpret, you will need to connect your consputer to the registed civily an esthermet cable. d) Log in to the Web interfere. Open a web bonoword and enter the IP address of the Sisitch in the address bar erfor ascernance and log in. 3) configure basic settings a) Assign IP address as 10.11.5 Subnet mark 255.0.00 Step 6'. Cheek the connectivity between startet and other machine by using ping Connand in the Command prompt step 7: select a folter -> go to peroperhies -> click sharing tab Step 8: Try to access the abared folder july other computers a the network

Persult' thus, the setup and doubigure of LAN is done successfully.