BONO: 4 a LAN using a switch + exherret Date:11.08.2025 cas les.

To setup a LAN network connection and configure using ethernet cables and switches.

A LAN refers to a network that connecte device within a limited area and enables usels to shall resources and promotes collaboration and tranfer is information

A LAN switch servers as a primary connecting service, managing and directing communications within a local network each connected device on a LAN switch can communication directly with each other allowing faster and secure data transfer.

How to setup a LAN: step 1. Plan and design an appropriate network topology taking into account the network requirements and equipment location

You can take 4 computers, a switch with 8.16 or 24 ports which is sufficient for networks of these sizes and 4 ethunet Cable.

step 3: connect your computers to a network switch via a extreme cable, which is a simple as plugging one end of the other cable into your computer and the other end into your networks switch.

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Step 4: Assign IP address to your Pis

- 1. login on to your client computer as administrator or as owner
- 2. click network and internet connect
- 3. Right click local area connection or ethernet.
- > go to properties > select the internet protocol (TCP/IPV4) → click on properties → select use the following ip address option and assign ip address.

steps: configure a network suitch

- 1. To access switch's web interface, connect your computer to the switch.
- 2. Log into the web interface and open the burser, enter the username and parsword.

- 3. configure the basic setting for the switch.
- 4. Assign ip address as 10.1.15 and subnet mask as 255.0.0.0
- check the connectivity between step6: switch and other machine by using ping command in the command prompt of the device
- select a folder > go to properties > llick shaving table > shave it with everyone on the same LAN Sty7:
 - Try to accels the shared tolder from other computer of the network. step 8:

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using switch of Ethernet carbles a LAN has been set up and configured.

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