

EX-NO: 4
12/9/25

Set up or configure a LAN using a switch or Ethernet cables in your lab.

AIM: Set up or configure a LAN using a switch or Ethernet cables in your lab.

What is LAN?

- * LAN (Local Area Network) connects devices within a limited area (home, office or school).
- * Enables sharing of resources like files, printers or internet access.
- * Connects devices such as computers, printers, servers or switches.
- * A LAN switch manages communication within the network.
- * Allows fast & secure data transfer between connected devices.

How to set up a LAN?

- * Plan or Design - choose a topology & place devices accordingly.
- * Devices Needed - 4 Computers, 1 switch (8/16/24 ports), 4 Ethernet cables.
- * Connect devices - plug each computer into the switch using Ethernet cables.
- * Assign IP addresses:

PC 1 : 10.1.1.1 / 255.0.0.0

PC 2 : 10.1.1.2 / 255.0.0.0

PC 3 : 10.1.1.3 / 255.0.0.0

PC 4 : 10.1.1.4 / 255.0.0.0

- * Configure switch - log in via web interface
assign IP: 10.1.1.5 / 255.0.0.0
- * Test connectivity - Use ping command bt
PC's by switch.
- * File sharing - share a folder
- * Access shared files - other PCs on the
LAN can open the shared folder.

LAN configuration Diagram.



