

CASE STUDY 1

Aim:

To analyze the performance of various configurations and protocols in LAN.

Objective

Establishing a Local Area Network (LAN):

The main objective is to set up a Local Area Network, concepts involved in this network are IP addressing and the Address Resolution Protocol (ARP). The required equipments are 192.168.1.1, 192.168.1.2, 192.168.1.3, Host A Host B Host C, Switch/HUB, three PC's equipped with at least one NIC, one HUB or Switch and the necessary cables. Once the physical LAN is set up the hosts need to be configured using the ifconfig command. To verify communication among the machines the ping command is used. Next, to manipulate the routing tables at the hosts to understand how machines know where to send packets. Since the ifconfig command places a default route into the routing tables this route must be deleted, to "blindfold" the machine. The ping command is used again to show that communication is no longer available. To re-establish communication the routes are put back into the routing table one host at a time. Communication is once again verified using the ping command.

REQUIREMENTS:

1. 3 Windows PC or 3 Linux PC, Each PC must Have One NIC cards.
2. 1 Switch (8 port) or 1 Hub.
3. 3 Straight Line LAN (cat-5) Cables with RJ-45 Sockets.
4. Power supply
5. Class C IP Address. using Static IP configuration.
6. Basic Network Configuration Commands. For Switch and PCs.
7. Cisco Packet Tracer 6.0.1

PROCEDURES:

1. Open The CISCO PACKET TRACER software.
2. Draw The Three PC using End Device Icons.
3. Draw The CISCO 24 Port Switch Using Switch icon lists.
4. Make The Connections using Straight-Through Ethernet Cables.
5. Enter The IP Address To Each Machine.
6. Check the IP address for Every PC using **ipconfig** or **ifconfig** Command.
7. Check The Connections using Ping Commands.
8. View The MAC Address Table.

Network Design Lab Manual

R Barnett



Network Design Lab Manual:

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