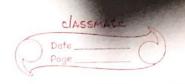
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	Assignment 3
	THE RIVERS THE COURT WATER STATE OF THE PARTY OF THE PART
	Aim: To setup a wired lan using a layer 2
	Switch & then I.P. Switch of ninimum
	4 computers.
	" (001/20) C C 22 C 160 C C 2
	Problem Statement:
	It includes preparation of cable, testing
	of cable using line tester, configuration
	machine using IP addresses, testing
	using PING utility & demonstrate the
	PING packets.
	CONCERNO SUCA OS SUCA OS MULLES OS OS MULLES OS
	B. Extend the same assignment for
	wireless access point.
	L MERKYUD DEL L LEG CURREN L
	Prerequisites:
	knowledge of components such as Ethernet
	card, cable type, connection, topologies.
	Like transité sindre (1
	Theory: 3000 - 3000
	Types of LANZOICONO
	A local area network is a computer network
	that inter-connects computers within a
	limited area such as residence, school,
	library, etc.
	THOMSOME US OHANGED SEEDED
	- Ethernet LAN:
	The most popular physical lager in LAN
	technology. A standard ethinet network
	can transmit data at rak upto 10 mbps
	Other LAN types include Token Ring,



	fast Ethernet, Gigabyte Ethernet,
	10 Gigabit Ethinit, FDDI
6	10 gigabit equality
	- Fast Ethernet (standard IEEE 80234)
	Ethornet speed is 100mbps with
	minimal changes in existing cable
	Structure.
-	BOY DOLL STORY OF THE STORY
Po	- Gigabit Ethunet:
-	It was developed to meet the
	need for faster comm. networks
	with applications such as multimedia
	& Voice over IP (VoIP). It is
	defined in the IEEE 802.3
	Standard & is used currently as
	enterprize backbone.
1./200	ATT OF THE STORAGE TO SE WAS IN
	- 10 Gigabyte Ethernet:
	10 gigabyte ethernet is the
	fastest 4 the most recent of the
	Ethernet standards IEEE 802.3as
A II	defines a version of ethernot with
	nominal rate of logbilsts
	CONST. WIGHT OF THE WAS TOWN TO VERY
	- IP Switching:
	It is performed by implementing
-	1998 - 3 SWITCHES WILL BOOK
	1-131C Hardware Proposition
<u> </u>	ATTY SWITCHES.
- C. 190	A PANO MANAGEMENT OF
	the state of the s



Cable Testing:

Cable test instruments are designed with a variety of focused features for particular field tasks. They vary in price performance & application. Depending on task the field test instrument performs it can be classified into certification, qualification or verification

Wire shark Packet Analyzer Tool:

Wireshark (Ethereal) captures packets in real time & displays them in human readable format. It includes filters, color coding & other features that let you dig deeper into network traffic & inspect individual packets.

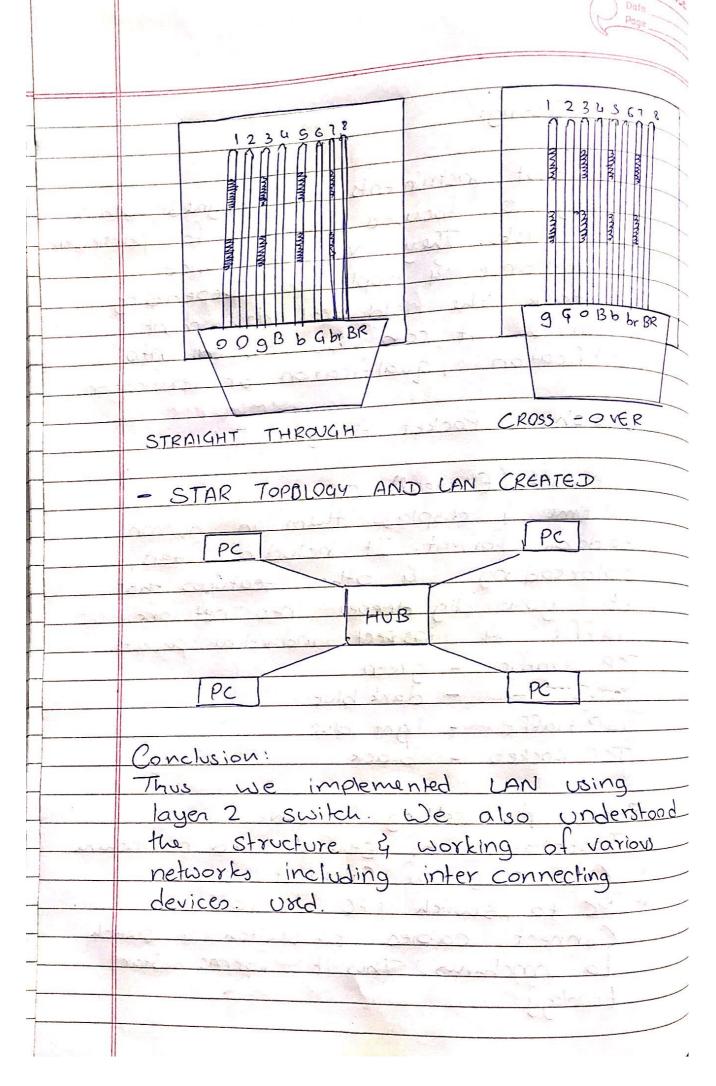
TCP traffic - green

DNS - dark blue

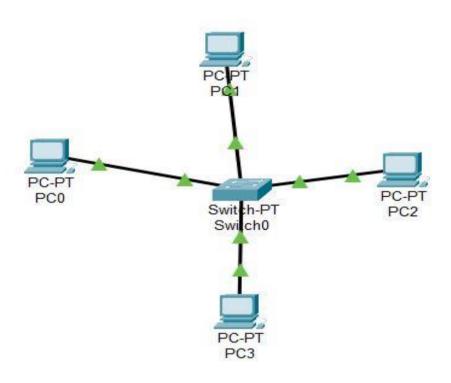
UDP traffic - light blue
TCP packets - black

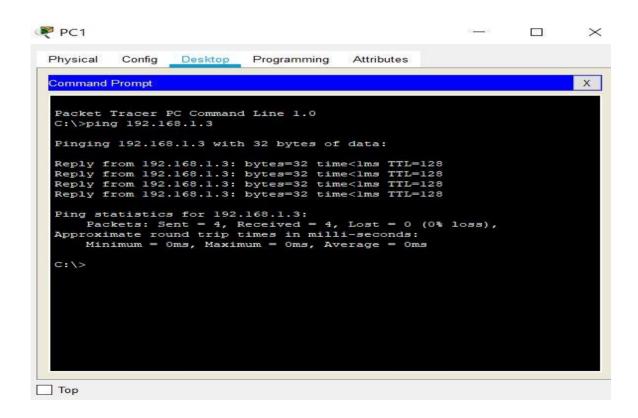
Steps for setting up LAN:

- · Installation of Ethernet card in machine
- · Crimping of Ethernet cable
- · PC to switch / PC to router.
- · Connect cables to switch & switch to machines. Thus it forms Star topology



Testing by Ping and output:-





Wireless ping output:-

```
| Activities | Deminal | Principal | Princ
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WireShark output:-

No.	Time	Source	Destination	Protocol	Length Info
11	550 27.229032	52.85.117.64	192.168.43.163	TCP	1354 443 → 49782 [ACK] Seq=5428931 Ack=645 Win=31488 Len=1300 [TCP segment of a reassembled PDU]
11	551 27.229121	192.168.43.163	52.85.117.64	TCP	54 49782 → 443 [ACK] Seq=645 Ack=5430231 Win=370432 Len=0
11	552 27.230408	52.85.117.64	192.168.43.163	TCP	1354 443 → 49782 [ACK] Seq=5430231 Ack=645 Win=31488 Len=1300 [TCP segment of a reassembled PDU]
11	553 27.230501	192.168.43.163	52.85.117.64	TCP	54 49782 → 443 [ACK] Seq=645 Ack=5431531 Win=369152 Len=0
11	554 27.230771	52.85.117.64	192.168.43.163	TCP	1354 443 → 49782 [ACK] Seq=5431531 Ack=645 Win=31488 Len=1300 [TCP segment of a reassembled PDU]
11	555 27.242096	52.85.117.64	192.168.43.163	TCP	1354 443 → 49782 [ACK] Seq=5432831 Ack=645 Win=31488 Len=1300 [TCP segment of a reassembled PDU]
11	556 27.242192	192.168.43.163	52.85.117.64	TCP	54 49782 -> 443 [ACK] Seq=645 Ack=5434131 Win=366592 Len=0
11	557 27.242392	52.85.117.64	192.168.43.163	TCP	1354 443 → 49782 [ACK] Seq=5434131 Ack=645 Win=31488 Len=1300 [TCP segment of a reassembled PDU]
11	558 27.247634	52.85.117.64	192.168.43.163	TCP	1354 443 → 49782 [ACK] Seq=5435431 Ack=645 Win=31488 Len=1300 [TCP segment of a reassembled PDU]
11	559 27.247697	192.168.43.163	8.36.80.234	TCP	54 49772 → 80 [ACK] Seq=158 Ack=610513 Win=64768 Len=0
11	560 27.247737	192.168.43.163	52.85.117.64	TCP	54 49782 → 443 [ACK] Seq=645 Ack=5436731 Win=363776 Len=0
11	561 27.249632	52.85.117.64	192.168.43.163	TCP	1354 443 → 49782 [ACK] Seq=5436731 Ack=645 Win=31488 Len=1300 [TCP segment of a reassembled PDU]

- > Frame 1: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{929ECFC2-8E4A-4580-9F1E-DF153F139052}, id 0
- > Ethernet II, Src: XiaomiCo_1f:6d:55 (0c:f3:46:1f:6d:55), Dst: IntelCor_ac:7b:d2 (f4:d1:08:ac:7b:d2)
- > Internet Protocol Version 4, Src: 40.122.160.14, Dst: 192.168.43.163
- > Transmission Control Protocol, Src Port: 443, Dst Port: 49725, Seq: 1, Ack: 1, Len: 0