	PAGE No DATE
	DATE
	(Lecture 18 -> Addressing in Networking.)
	The state of the s
(<u>a</u>)	Giring Examples for better understanding of 1P, MAC & Pool addressing.
(2)	Post -> Transport (end to end)
	Network (end to end)
	MAC Data link layer [Cannot get MAC of destination
	MAC Data link layer [Cannot get MAC of destination -'. MAC of next node Pr given].
	in the second of
3	An example used to explain above point.
	No.
X	Lecture 19 - TCP/IP Suite
//	
1	> Just four layers in TCP/IP layers> Application (3)
	Transport (1)
	Internet (1)
	Application -> MTTP, DNS, DNCP, FTP Network Acces (2 layer) Transport -> TCP, UAP
	1 11/1021
In	ternetter -> 18v4, 18v6, 1cmpv4
	Metwork -> Ethernet, PPP, Frame Relay. Interface dorrers.
	→
(2)	(Protocols of each layer).
(Application layer Name Klost Reneal File web. System config 8MTP NOTE
	SHEP IMAP TETP

					DATE / /
	Internet footocols	NAT	16 Suppost	· ·	Protocoly
	Transport	-> UDP, T	CP .		. 1 ()
3	PDU (Pro	tocal bata	Unit)		
=	Application				7
	Network	Layer -	Segment (- Packet (7L Poame (DL	T NLT Data)	PDUS
		cal layer-	•	TIL TAIL T Ball	metium dependent.
			N -		
(Leeture	20 → 30	unc Netwood	lng Common	45.
1 3	Look at bar	e network	king commen	ds in end	;— ·
	> 1Pco	nfig nfig/all	7		<u> </u>
	> NSL	okup	y we alre	ady know	thes.
	- Too				(domein name).
9);	help color	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23.4	NI Slookup -	of
3	ds -	learing screen.			by which connection
			2 (8) (5)	20 - 1 · · ·	bappens.

	DATE / /
	lecture 21 22 22 24 25 16 -> Caro Pooked To-
	lecture 21,22,23,24,25,26 -> Cisco Packet Tracer
1.	
0	
0	Cisco Packet Tracer.
	>> An innovative and powerful network
	Estmulation tool. used for practice, disco
	and toulleshooting.
	A Helps understand networks.
(3)	Downloading Packet tracer shown.
	2 PCs taken and peer-to-peer shown. pinging.
	(crostone cable) -> Same dences.
	- (Str through cable) -s Diff derices.
22.	
3	Hub -> Also called network Mub.
	(Kall dyder) Works in the alice of the
	(Malfdydex) works in the physical layer, Used in LAN.
	has multiple ports.
	comes under stax mades.
	comes under star topology.
	working principle -> When packet arrives at one post, it is
	copied to other posts so that all segments
	81 the last to the segment
	of the LAN can see all packets.
	(brawback) -> No notter if other networks want data or not, do not, do sent is broadcast to all derives.
Alsa	coul ? ones networks want date or not, do
none	nony sent 91 broadcast to all desires.
	· other Computers has to deny the packet
	U

23	
4	Dwitches -> Networking hardware that connects devices on LAS
(Data	Link -> Duriter has memory & so more expensive
	their hub.
Cful	Mall: -> Stores MAC Address table.
	& only jornards to one destination, but can
	E only forwards to one destination, but can also broadcast if necessary.
24 1	5
5	(full dupler).
	A networking device that forwards data packets between
	committee not works.
- 1	Stitl LANS GO WANS.
	(or LAN to internet.
-2	Dorking -> nas different interfaces having ip-addresses,
	cornected to diff networks.
	works on nework layer.
	Stores Routing table, and takes decisions
	bused on IP address.
ah.	
28	Repeater (layer & derice).
6	The date view le senerally bezone too weak 67
	ompted if they tend to travel cony distances.
	compled if they tend to transf day
	A seperter regenerales the signal over the same network
	Not diff
	Only 2 posts.
	Eg! - A organisation has 2 buildings.
	Ji- Hora

	DATE DATE
	Lecture 27 -> Barics of Bridges
(1)	A repeater + functionality of reading MAE address.
3	Mayer 2 dence. & 2 porte
	" Used for interconnecting 2 LANE Of same protocol.
(4)	3 Types -> Transparent (Stations/nodes unawase of bridge)
	Source Routing entire
	Source Routing -: config (Routing operation is unecessary performed by source Station
	performed by source station
	4 garne species tallow
3	Dig bln router & boidge shown.
	Bill bln router & boidge shown.
	The state of the s
	(Lesture 28,29 -> Network Derices.)
N.	The same of the sa
	Panna Law
	Repeater)
,	Switch
	bridge
	Router
	Multi-layer switch (Router + Switch)
	Brouter (Bridge + Router)
	Modern -> Analog carrier signal i.e modulator.
	Flrewall -> Sensity Derice.

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29.	> not entre
2	NIC Card) component of PC insed in
	(Network Interface (ard) connecting to darkers.
	· · · · · · · · · · · · · · · · · · ·
(3)	Gateway - A node used to connect 2 networks with diff
	Gateway -> A node used to connect 2 networks with diff
<u> </u>	
(4)	switches, Muts don't have MAC addresses.
	Lecture 30, -> Physical layer and -> 31,32 Media
	31,32 Media
30.	
	>) Fundamental principales of physical layers
	Blocady seen, wenting data + headers into electric signels, would etc.
	(01010 <u>011</u>)
(2)	3 Data & Signely
	3 Data in to be converted to signals to be Fourmitted.
(2)	A signel is a for that represent the ranation of physical quantity with respect to time.
	quantity with respect to time.
	Anolog [com take any value in defined raye]
	2 types Anolog [com take any value in defined range] All real-life rignels.
	Digital finite values at a given sine
	deserte values wed
	Digital [finite values at a given time] descrete values used at one time > one value.
	An all
U)	dectroneg signels.
	dedia light signels. Media Copper cables Probocoptic cables light signels
	Slight signals

	OATE /
(5)	wired
	m Copper Cable (Ethernet Cable)
	Shielded Turisted Pair (OTP) - metallic shield. Shielded Turisted Pair (STP) - metallic shield. Stip noise present, us
	of noise present, us
	* Copper varial cable us for andro & video.
	a fibre optic Cable. (fartest) [High bandwidth, range but expense
7	Coosstalk -> UTP docm't here shielding to counter effects in
	Coosstalk -> UTP docm/t here shielding to counter effects in EMI and RFI. [EMI] -> Electroney, Redio Interference]
	-) con be limited by Greecastry no: of history.
6	Wiseley
	Areas of Concern -s Coverage Area
	Areas of Concern -s Coverage Area (brand acks) Interference more
	Security is less.
	& wife, wimax, zegbee, Quetooth, Satellite, etc.
	de la contraction de la contra
	CSMA/CA broadbond. wom range soms/s.
	3m5/8.

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	Lecture 33 -> Line Confignation
1	In a network, two con more nodes are connected by communication link.
	which can be wired or wireless.
	For visual puoposes, this connection is seen as line drawn bln
(D) =	Types () roulti - Point connection. ()
. •	Lecture 34 -> Link layer Services
2)	Bo each group 7% distuighable. This method
	Physical Addressing (MAC)
2	Physical Addressing (MAC)
3	Flow & Access Control who has more or less access to
	networks, admin commands etc.
i	to flow is necessary to be regulated as sender can send 100 pades but receive non only seceive 10. Then flow control is nece.
(4)	Bosor Contral

	DATE
The second section is not a second	
	[lethere 35, 26, 37, 38 -> Sublayers in DLL & Francis 1,2,3
26.	
35	
3	Sublayer [logic link control]. MAC Sublayer
	LL C sublayer [logic link Control].
	MAC Subleyer
	LLC -> Also called bata link control(DLC)
	-> Deals with communication 5/n upper & lower land
	-> Deals with communication 5/10 hopes & lower layers -> Also allows flow control. (Everything else Ly MAR noting
	(Adds Ready to NIC
	data) 2 responsibilites/ Data encapsulation.
	duta) 2 responsibilites Date encapsulation.
36.	
1	
9	Francing shown by a enemple.
	A bit structure accepted by both computers to
37	identify start & end of plane. * Used in Eg: - 11011 dil 001-11011
(3)	Frankry size only
	NodeA
	Adaptos Adaptos
	Bita flow 5/n adaptors
	freames b/n hosti.
	I francing is used to distrigh one from other frames
	(4) Types. / fixed size framing (earlier as size fixed).
	Variable size framing =
	0.0

			PAG	SE No.
38				
3	francy appros			Note: - Clock Land
	(View trames	Criewed as	>)	francisg also there
	as collection of	47as)		nowaday
	Convert dute	approaches	~	
	Posto bits	BI-SYNC 7 PROLOCO	ols	
	J	PPP	J	
		à		