15/0/23 PAGE NO Experiment - 1 Aim: create a topology and simulate sending a simple PDV from source to destination using but and suritch as connecting devise and demonstrate ping nerrage Topology: hub: 10.0.0.7 10.0.0. Fro PC-121 Hub-Pr PCG Fad PC-PT 10.0.0.6 çao 100 PC-PT PCS PC-PT 10.0.0.5 PC1 PC-PT 10.0.0.9 PCA 10.0.0.3 Switch: FA3/1 Switch-Pr Fazli Switcho PC-PT P (2 Fac PC-PT Cus. PC3 PC. 1 pc -pr PCO

Perocedure: Hub: (Simulation) i) connect 7 pcs to 1 hub. i) connect to port by clicking on hub and and adding the but port (have so turn off hub fort) (ii) connect the PCs to the hub wing the copper stright through cable Piv) set the IP address to the PCs V) Add simple PDU to source and dedication vi) click on Auto Capture / Play Vii) observe the packets Surtel: (simulation) i) conect 3 PG to 1 switch ii) Set the IP address to all the PC. iii) correct the PCs to the swicht wing the copper Staigh through cable. iv) Wait until the signal turns from clarge to green v) Add simple PDV to source of derkinson vi) Cleck on Auto papeurs / Play. Vii) observe the packets. Hub: (realtime) i) Apter completing the cornections of hub of PCs, setting IP addreses, and using coffer skaight Gable, click on the source PC.
ii) Click on desktop and go to command icil type ping [destination iPaddress], here in the enfuriment, ping 10.0.0.2 in) Observe the immand prompt.

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	Resut (Hub realtime):
	Packet Water PC command Line 1.0
	PC> ping 10.0.0.2
,	Pringing 10.0.0.2 with 32 bytes of data:
	Reply from 10.0.0.2: bytes = 32 time = 0 mg TTL = 128
	Reply from 10.0.0.2: bytes=32 time=0mg TTL=128 Reply from 10.0.0.2 bytes=32 time=omg TTL=128
	Reply from 10.0.02: bytes = 32 time = 0 ms TTL=128
	Reply from 10.0.0.2: kytes:32 KN =0.MS TIL = 128
	Ping statistics from 10.0.0.1.
	Puchets: set= a, Recived= +, Lost = 0 (0% Loss),
	Approximate round trip times in milli-seconds:
	Minimum = 0 ms, Marinum = 0 ms, Averag = 0 ms
H	
	PED PC
	Result (Switch realtime):
	Sinite : () col (cos)
	Switch: (real Kme)
	i) After completing the connections of switch
	of P(s; setting it address, of using when straight through cathe, dich on
	the source PC, in this ent, PCO
	ii) dich on deshtop and got to command
	prompt
	iii) type ping Colesknowtion (P), here in the
	enperiment, ping 10.0.0.d.
IC	iv) observe the command prompt.
	Result (Sur'tch real time):
	Painet Tracer PC command Line 1.0
	PC> ping 10.0.0.1
	pining 10.0.0.1 with 32 pytes of data:



hopy from 10.0.04: byter: 32 time: dy TTL = 128 Reply from 10.0.0.0 kytes = 32 time: one TTC= ha Reply from 10.0.0.4: thre: any TIL: 121 kytes = 32 Reply from byt0 = 32 tino = Day 11 6 = 120 100.0.0 Ring statistics for 10.0.0.0. Parts: sent = 4, Reived: 4, low = 0 (04, Low) Approximate round trip times in multi-seconds: Minimum = 0 ms, Marinum = 1 ms, Average = 0 mg 1(> observation (swit hub simulation): i) The packet goes from source to lub
ii) The hub sends it to att the rest PCs in) The PC's with which the menage warnt intended to show a red to cross on the message iv) The PC's for which it was intended to resides the merrage of rends an acknowledget all PC5 all PC5 to the bub which sends it to the souther PC. I source review of given tick, rest and red. observation (Switch simulation): i) The packet goes from source to swich i) switch sends it to ser pcs ii) The Pc's for which the message warnt intended show red cross of the one it was indended The sends an acknowledgement back that it recives menage iv) The switch relays it back only the the Source unlike but. V) sending a messag again from same source of destination, the switch would have

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learns and: sends it only to the lestination and on not the rest pas. Hybrid: -. Topology. PC 4 10.0.0.3 Procedure: i) Connect & PC's to 1st hub of 4 Pc's to 2nd hub ii) Set the 1P addresses of the poist.
iii) connect the 2 hubs to a Buritch iv) PC's are connected to hub using copper Skaight through cable v) Hubs are connected surtch using copper Cross over wire Vi) wait until the signal on switch turns from orange to green. Vii) Add simple POU to source of destination, here from pC.11 to PC 10

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Viii) dick on Auto capture / Play

ix) observe the packets

real time:

and setting ip addresses, click on source PC, here PCO

ii) click on deshtop of go to command

prompt ii) Type the destination is adeliest, here

iv) observe the command prompt

ping 10.0.0.10

Result (Real time):

PC > ping 10.0.0.10

pinging 10.0.0.10 with 32 bytes of data.

Reply from 10.0.0.10: bytes = 32 Knr=oms TTL=120

Reply from 10.0.0.10: bytes = 32 time=0 my TTL=(20)
Reply from 10.0:0.10: bytes = 52 time.0 my TTL=121

Refly from 10.0.0.10: bytes=32 tim=0 mg TTU-121 Ping statistics (2) 10:0.0.10:

Packets: Sent=4, Recieved=4, lost=0 (0% Lous)

Approximent Tound tip times in milli-seconds: Minimum = orns, Manimus = 1 ms, Average = orns

i). The packet goes from source to lub

ii) the hub sends it to set of the PC's of to the swicht

iii) The switch sendy to the other hub which

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	sends it to red of PC's iii) The PC's which the menage warn't introled
	to show a sed cross on the message
	iv) The PC's for whicht it was intended to
	recires it of sends on acknowledgment
	to the hub which sends it to rest of
	v) The switch relays it to the officer hub of
	which sends it to rest of the PC's
	vi) the source recises the Vaknowledgement
0)	
(0)	
1/1/	
2/6/	
- F	
	* 5 99











