Lab 2

Joseph Cycle 1 making connakioning using they Creating a topology and simulate sending a simple PDU from source to destinating using hub and switch as connecting devices

using a hub:

From device type selection box, select of four number of devices by clicking on end devices and all

Then select hub and connect the devices

to the hub. configure the devices by Setting the IP addresses: 10,00.1,10.0.0.2,

16.0.0.3, 19.0.0.

Next in simulation mode add PDV or from

source to destination and click of auto approxy

we see that the pDV packets are being sent to all the devices but only the correct (the destination) devices accepts it

the others & reject them

	some can be riented in command prompt bying					
	2 pring Tradities s			, ,		
·		1000	Ovid.	4.00	,	
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*2	Event list			N St. 1		
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	Fire Lost status	pco		[hation	0-009 Nime	N
	Successful	1 700	PC	3	0.000	

Ç Si v	Command prompt (Ping)					
- 1/4						
	1000 ping 10.0.0.4					
	Ding in a 10.0.0. 4 with 32 bytes of data!					
	Reply from 10 p.o. 0.4: bytes: 32 timeroms Tiling					
	Statistics					
-	Packets: sent = 4, Received = 4, lost =0					
	Round trip times:					
787	Minimum = 0 ms, Moz = 0 ms, Avg = 0 ms					
÷						
	E Acco					
	Task 2					
- 3	Using a switch-					
7	from device type selection box select 4 devices					
	by clicking on end devices					
\sim	then select a sovitch and connect all the					
	devices to the switch. Configure the devices by sesting the IP address: [0.0.0.5 to					
	by sesting the IP address: 10,0,0,5 to					
	104/0.0.0.80					
->	Next in simulation made add PDV from source					
Ę	to destination and chick on auto capture Play					
7	we observe that the PDV packets is being					
	sent only to the desired device (destination)					
1	de la					

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	on Ping						
7.	ping 10.0.0.8						
	Disagram 10.0-0.8 with 32 butter OF data						
	Reply from 10-0-0.8. bytes: 32 time = 0 ms						
- 4	Stati Stics for 10.0.0.8						
	Packets sent = 4, Received = 4, Lost =0						
	APProx. round trip times						
My							

Date: / /

Minimum: Oms, Mox = 11ms, Avg = 4ms Task 3 Using both hub and switch as connecting devices Procedure: we form an interconnected LAN by making a connection between the Hub & switch Established previously using a copper-cross over connection. We add a PDV to end - device source [10,0,0,1] and to end-device destination (10.0.0.8) · Source connected to Hib and Destination connected to switch Enter. simulation made and select autopeapting play Real time Fire Last States Source Destination Time Periolic Successful PCO PC7 0.000 N message moves from source delevice to hub. Hub broadcasts the message to devices (10.0.0.2, 10.0.0.3, 10, 0.0.4) and to the switch =

				7		
	The end devices reject the message?					
2	The switch receives the message and sends it					
	to destruction end device (10.0.0.8) directly					
	and not to ony other device					
	In the next cycle, message sent from device					
7	(10-0.0-8) goes to switch then to hub					
	10.00.00	if in devi	ces (10.0.0.1	10.0.0.		
-	Hub prood costs it to devices (10.0.0.1, toro.o., 10.0.0.). Source device receives					
	(0.0,0,3,	10.0.0.9	Endo est	Cetty		
4 1	message					
	Simulation	model	112.7			
	Time	10th devoice	Atrodevice			
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Date: / /

c:1> ping 10.0.0.8 Pinging 10.0.0.8 with 32 by the ordata Reply from 10.0.0.8 1 bytes=32 time=lms Reply from 10.0.08: bytes=32 time=Ins Reply From 10.0.0.8; by 185232 films 21mg Reply from 10.0.0.8: bytes0232 time 21mg Statistics for 10.0.0.8 Packets: sent = 4, Received = 4 Lort = 0 Apprex. round trips Minimum 20 ms, Max = Ims, Average = ons Topology ? Hub0 Switcho