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II-in-one sh down, and cut Experiment: 3: Experiments on cisco PACKET

TRACER (SPMULator Tool)

Aim

Analyze the behavious of metwork devices using ciso PACKET TRACER simulator. Steps:

1. From the network components box, click and drag and drop the below components.

a. 4 Generic pcs and one Hub b.4 Generic Pcs and one Switch

2. click en connections:

a. Click on Copper-Straight Traough cable
b. Select one of the PC and connect it to
Hub using the cable. The link LED should
glow in green, indicating that the link
is up. Similarly connect remaining 3 PCS to Hus.
c. Similarly connect 4 PCS to the Switch

c. similarly, connect 4 PCs to the switch using copper straight-through cable.

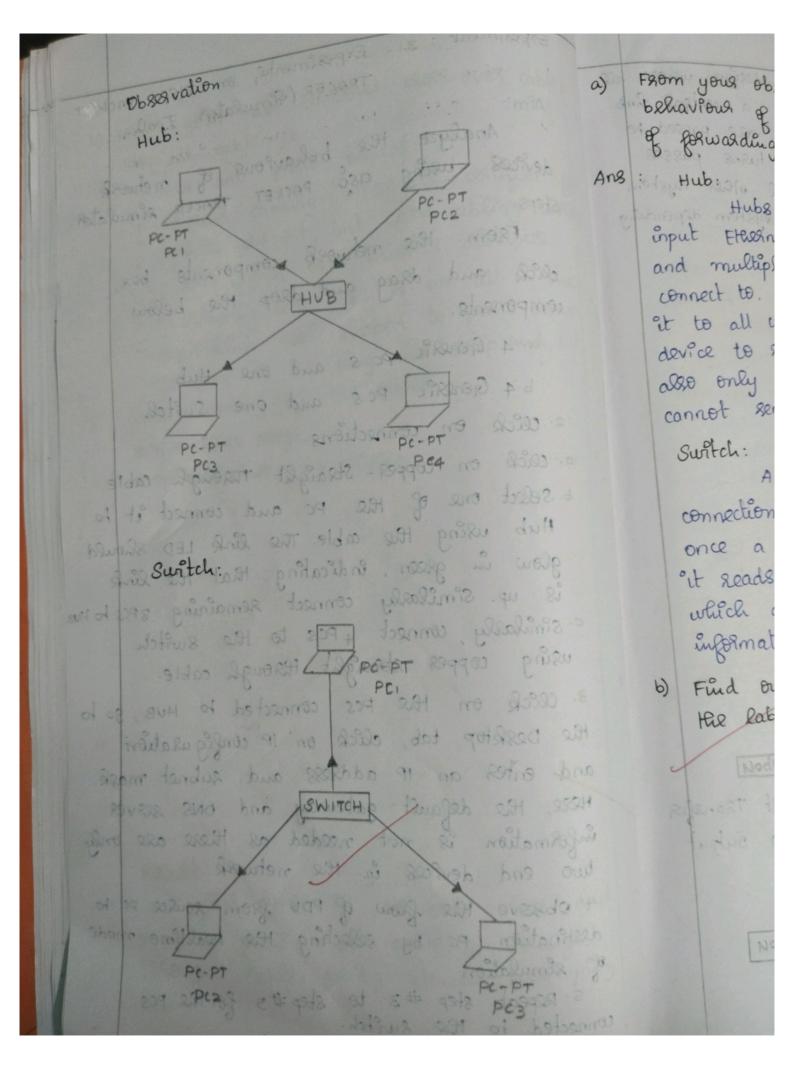
3. Click on the pcs connected to HUB, go to the Desktop tab, click on IP configuration and enter an IP address and subnet mask. Here, the default gateway and DNS server information is not needed as these are only two end devices in the network.

4. Observe the flow of PDV from source pe to destination pe by selecting the realtime mode of simulation

5. Repeat step #3 to step #5 for the PCS connected to the surter.

6. Observe How Hub and surter and conclusion the PDU and write your observation and conclusion

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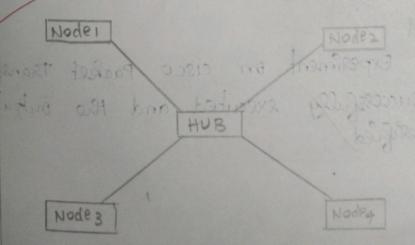


From your observation write down the behavious of switch and Hub in toms of forwarding the packets received by them. 28go Dodingo

Ans : 1 Hubista Do 20013 91 3000 220 Hubs are simple devices with an input Ethernet port that connects to a router and multiple output posts for devices to connect to. When it receives data, it transmits it to all connected devices, seaving the intended device to recognize the data. Network hubs also only operate in half-duplex, so they cannot send and seceive data simultaneously. Switch:

A network switch is a hardware connection device that is smarter than hub. once a suitch knows the routes and poets, "it reads data packet beader to determine which devices "it is supposed to transmit information via its unique MAC address.

6) Find out the network topology followed in the lat: Stag Topology



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It is a metwork design where It is a connected to a central hub Experiment of suitch and mossages are passed to He central core that in hisns passes the mass ages to eiters all other system the moss ages dostination eystem depending To set on the network deegn. a switch connect to ween it seccives data it transmits Steps: it to all connected devices coving the intender Step1: Plan device to secognize the data Network Rubs tepolo also enly operate in harz-tuplex so the lequi sequi monet send and secesse data simultaneously Step 2: You o 8,16 A netw A network suffer is a hardwas cabl con solien device that is smaster than But Step3: conne once a suffel knows the soutes and onle anguest an it soods data racket headers to determine yous मिन्यान्तर को क्षेत्रमुख्य को में क्ष्रिक्त के किन्यान मिन information via its unique MAC address. Step 4: ASS 20/1/2400001 8045 201 3 1;a 10 and Ad Experiment on cisco Packet Transfer GO GO successfully executed and the output

plug

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3. Ru

Step 5: