Experiment 1

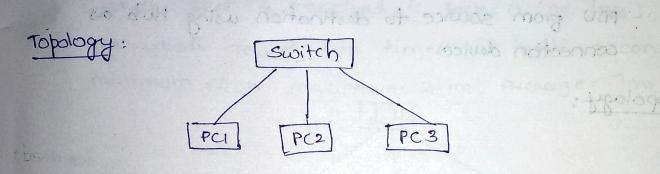
create a topology and simulate sending a simple pour grom source to destination using both hub and switch as connecting devices and demonstrate ping menage.

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Aim: to create a topology and send simulate sending simple pou from source to destination using switch ilm as connecting device no prologor o doors of mit

to destination. Pc coly. es assarch

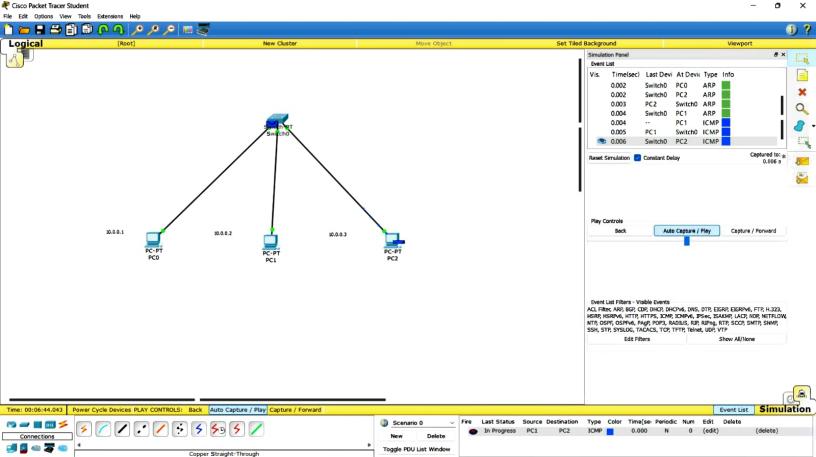
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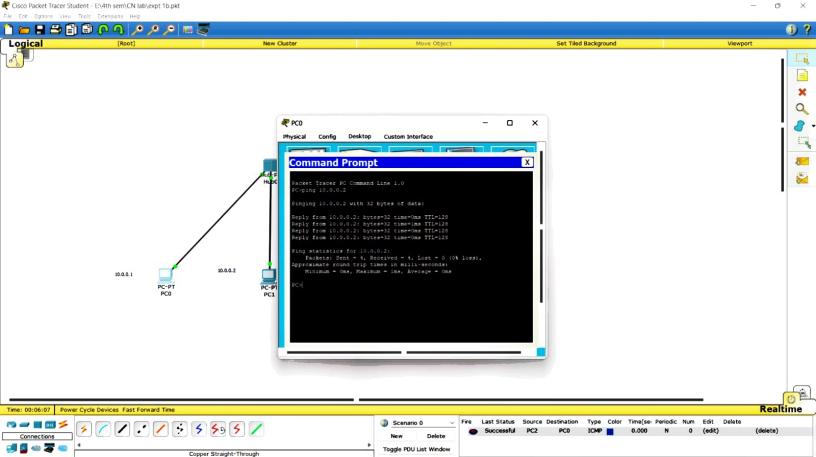


Procedure:

Take 3 general pc's connect them to switch, set IP addresses of the PCs. When the switch is ready ofor communication, sending a PDU from one PC to other. In real time, ping a PC by command prompt of sendor PC

Result: PC > PING 10.0.0.2 32 bytes of data: pinging 10.0.0.2 with bytes=32 time = 0 ms TTL= 128 Reply from 10.6.0.2 bytes = 32 time = 0 mg +TL = 128 10.0.0.2 Reply Brom byter=32 time=0 ms TT L =128 ping statics for 10.0.0.2 byte = 32 TTL = 128 time = 0 ms 10.0.0.2 bytes = 32 time = 0 ms 1 = 128
10.0.0.2: packets: sent=4, receiver=4, Lost=0 (04.
10.0.0.2: packets: sent=4, receiver=4, lost=6, receiver=4, lo





observation:

the POU is sent to switch, it is broadcasted to all PCs. and then the PCs which are not destination PCs, rejects PDU. Acknowledgement is sent to switch by the destination PC.

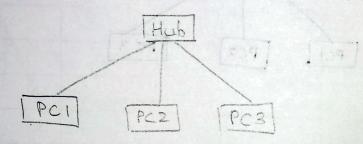
Then the PDU is sent to switch, switch broadasts PDU to destination PC only.

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Hub: prins controllab of source may use done Fim: To create a topology and simulate sending simple PDU from source to destination using Hub as connection device.

Topology:

801 = 470



3 generic PCs are taken. IP address of PCs are connected to the Hub. Mis more udy regions nother incomes

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simulation of sending a PDU to one PC to other is done.

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In real time, Ping manage is sent from one PC to other.

result:

Package tracer PC command line 1.0
PC > ping 10.0.0.2.

Pinging 10.0.0.2 which with 32 bytes of data:

Reply from 10.0.0.2: bytes = 32 time = 2 ms tTL=128

Reply from 10.0.0.2: bytes = 32 time = 7 ms tTL=128

Reply from 10.0.0.2: bytes = 32 time = 0 ms tTL=128

Reply from 10.0.0.2: bytes = 32 time = 0 ms tTL=128

define bon defi

Plng statics for 10.0.0.2:

Approximate round trip times in milli-seconds:
minimum = 0 ms, maximum: 21 ms, Average = 7 ms

observation

PDU is sent from source to hub. It is broad casteel to every other PC. The destination PC receives PODU. other PC, reject. Acknowledgement is sent from dustination PC.

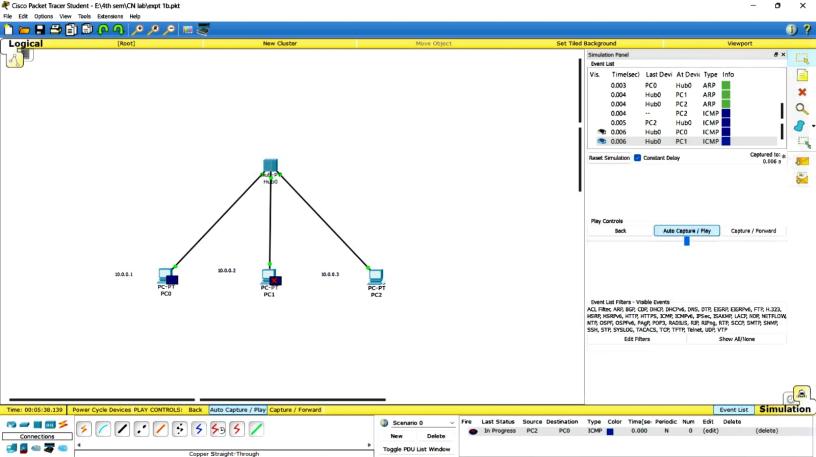
Ping memage is sent from source to destination.

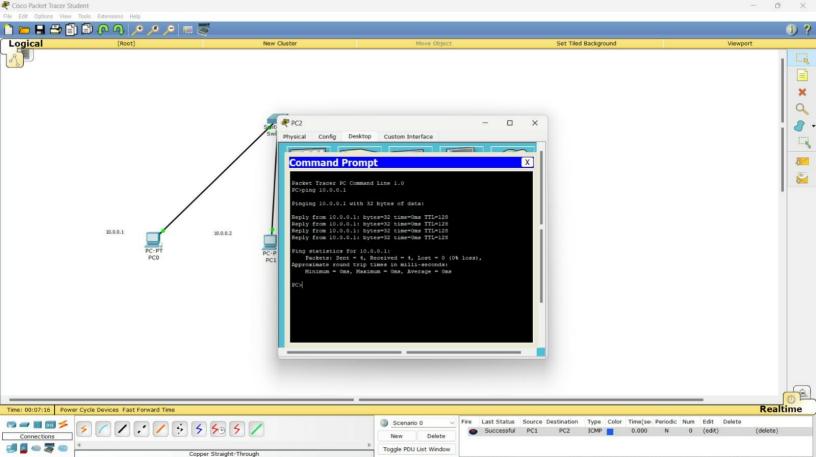
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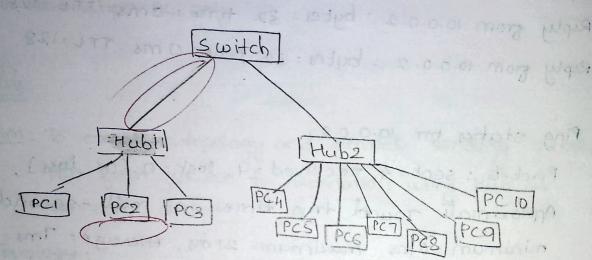




Hub and switch i

tracer PC corrupted line to Aim: To create a topology and simulate sending: POU from source to destination using both herb and switch as connecting device. light grow 10002: but es = 32 time esset ma

apply generals and subjection as a strain



Procedure:

generic 3 PCs are taken, IP adverses are set, and then connected to a hub.

7 generic PCs are taken. Il addresses are set, extra ports are added to help it needed and the connections are made.

both & hubs one than connected to a switch. PDU is sent from one PC to other.

Ping mersage is sent from one PC to other.

· 一个一个一个一个一个 Result: Pinging 10.0.0.7 with 32 bytes godata 129 oil 10 sind energy from 10:0.0.7: bytes =32 time= oms TTL=128, pmg Reply from 10.0.0.7: bytes=32 time=0ms TTL=128 Reply from 10.0.0.7: bytes = 32 time=0ms TTC=128

Reply from 10.0.0.7: byter=32 time=0ms TTL=128 Ping stables for 10.0.0.7:

Packeti: sent = 4, received = 4, lost = 0 cor. loss), Approximate round trip times in millier seconds. minimum = 0 ms, moiximum = 0 ms, Average = 0 ms

observation!

PDU sent from one PC goes to the hub connected to it. Hub broadcasts it to every other PC it is connected to: and also to switch. Switch receives the PDU sends it to all hubs, the hub then broadcasts it to every pc it is connected to. The destination PC receives PPU and sends acknowledgement to him that is sent to switch and sent back to source hab. All other ACs rejects the PDU. 000 225 010001 229 Boddage # (gignar) rollion

(world)# Hiterlace Raitethenief ofe

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200 220 01000 morbbo 91 #(21-papos) no wor int on # (8-69mm) respon

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router (conf. g. g. no shut

