Experiment 1

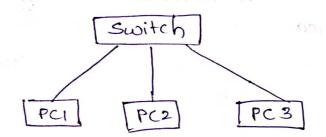
create a topology and simulate sending a simple pour from source to distinction using both hub and switch connecting devices and demonstrate ping memage.

the street of the second discounted as a control of the second street and Switch:

Aim: to create a topology and send simulate sending simple POU from source to destination using switch as connecting device no protoget a more of the

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Topology:



Procedure:

Take 3 generul pa's connect them to switch, set IP addresses of the pcs. When the switch is ready for communication, sendya PDU from one PC to other. In real time, ping a pc by command prompt of sender 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 TTL = 128 10.0.0.2 Rophy trom byter=32 time=0 ms TT L = 128 Reply from 10.0.0.2 TTL = 128 bytes= 32 time = 0 ms ping statics for 10.0.0.2 receiver=4, Lost=0(or 10.0.0.2: Packets:

observation:

the PDU 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.

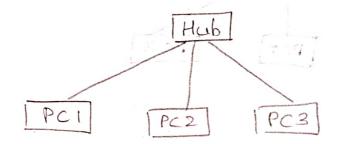
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Then the PDU is sent to switch, switch broadouts pour to destination PC only.

Hub:

Fim: To create a topology and simulate sending simple PDU from source to destination using Hub ous connection device.

Topology:



Procedure: 3 generic PCs are taken. It address of PCs are set. PCs are connected to the Hub.

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

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

Simplify and

Result:

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 = 21 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

Ping statics for 10.0.0.2:

Packeti: sent = 4, received = 4, lost = 0 (01. loss),

Approximate round trip times in milli-seconds:

minimum = 0 ms, maximum: 21 ms, Average = 7 ms

observation:

PBU is sent from source to hub. It is broad casted to every other PC. The destination PC receives PBDU other PC, reject. Acknowledgement is sent from dustine - tion PC.
Ping memage is sent from source to destination.

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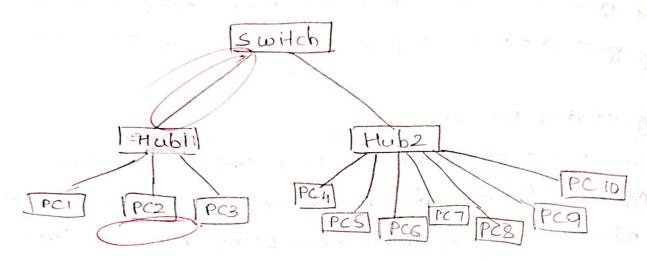
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Hub and switch ,

Dim: To create a topology and simulate sending pour from sounce to destination using both help and switch as connecting device.

Topology:



Procedure:

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

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

both & hubs one then connected to a switch. PDU is sent from one PC to others.

Ping manage is sent from one PC to other.

Pinging 10.0.6.7 with 32 bytes of data 1x9 of 3000 7 . respont techniques 219. puply from 10:0.0.7: bytes = 32 time = Oms TTL=128 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 station for 10.0.0.7:

Packeti: sent = 4, received = 4, lost = 0 co1. loss), Approximate round trip times in millie-seconds: minimum = 0 ms, maximum = 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 cornected to and also to switch. Switch receives the PDU sends it to all frules, the hub then broadcasts it to every pc it is connected to. The destination PC receives PDU and sends acknowledgement to hub that is sent to switch and sent back to source hab. All other has reject the ADO. organi -sorbtwie = Egnw) return

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