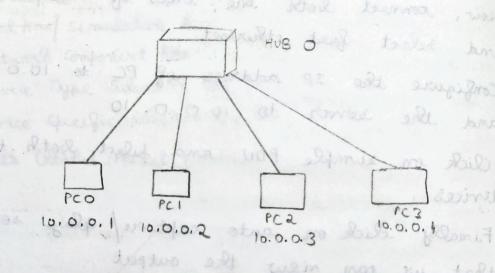
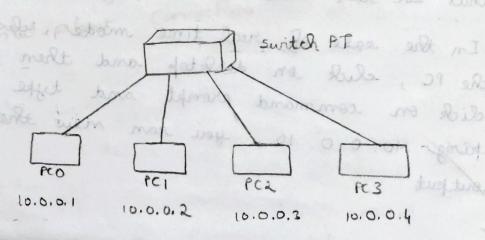
AIM: - Creating a topology and simulate sending a simple PDU from source to distinction using hub and switch as connecting devices.

Topology:-





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Procedure:-

* HUB

- → Place 7 generic PC's and I generic hub in logical workspace and all 7 PC's are connected to hub, by cooper straight wire.
- → Set each PCIs with IP addresses from 10.0.0.0 to 10.0.0.6 respectively and connect each PC to hub by copper straight wire.
- -> A simple PDU is placed on any a derices and message/packet passing can be seen in simulation mode, by disking autocapture
- In realtime mode a command frompt is opened for certain PC and following command is given to transfer message PING destination IP-addresses.

* Surtch

- -> 4 generic PC's and one generic switch is placed on logical workspace.
- > Set IP address for each PC from 10.0.0.7 to 10.0.0.10 and connect each PC to switch using ropper straight wire.
- -> In simulation made after placing simple PDU to any a PC's click auto-capture and packet transfer can be seen.
- -> In rual time mode click on any PC and Open command prompt and type 'PING dest IP'

> 12 PC's , 3 hules , I switch all generics

are placed on to logical workspore.

- > 3 generic hule are connected to switch using copper aross over wire and 12 °C's are connected to 3 hules o 4 PC each using rotter straight wire after assigning IP address for each using From 10.0.0.0 to 10.0.0.11 respectively.
- After selecting 2 pcbs from different hubs will simple PDU's and clicking on auto-capture, packets passing simulation can be seen in
- -> In real time mode ofen command prompt by dicking any PC -> derices -> command prompt

Observations:-

* Hult ...

Learning outcome: - Message to Rub its broadcasted

> After source sends message to Rub its broadcasted

to After source sends message to Rub its broadcasted to all end devices but only destination device reads and send response hade to hub for source to

Learuning sutcernes

> Hub establishes connection to end-derices quickly and signals by green light. Hood pris

Result: -

PINGING 10.0.0.3 with 32 bytes of data Reply from 10.0.0.3 with bytes = 32 times oms fing Statistics for 10.0.0.3 Details of how many parkets sent and received. Switch:

Learning observation:

-> Unlike hub, switch does not give green signal immediately but takes some amount of time called learning time and the packets ean bre sent once green signal is generated.

PING 10.0.0.5
PINGING 10.0.0.5 with 32 kyles of data.

. abom ratalumia PING STATISTICS FOR 10.0.0.3: decently any le thereas - command prompt

Hybrid :-

Learning outcomes:-

Message sent ly one PC of one hub to switch is sent to destination hubi. which broadcast to call devices of that hut and only destined end derives sends back response to source of other hul sured say had at some exceptive bones have

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Result in web - bore of noitaennos silculates sur PING 10.0.0.4 with 32 lytes of data

"retails of number of packets sent and received".

PING 10-0-03 MOIM 28 000

betails of from many public sent and messioned. time stationes for 16 0 0 3