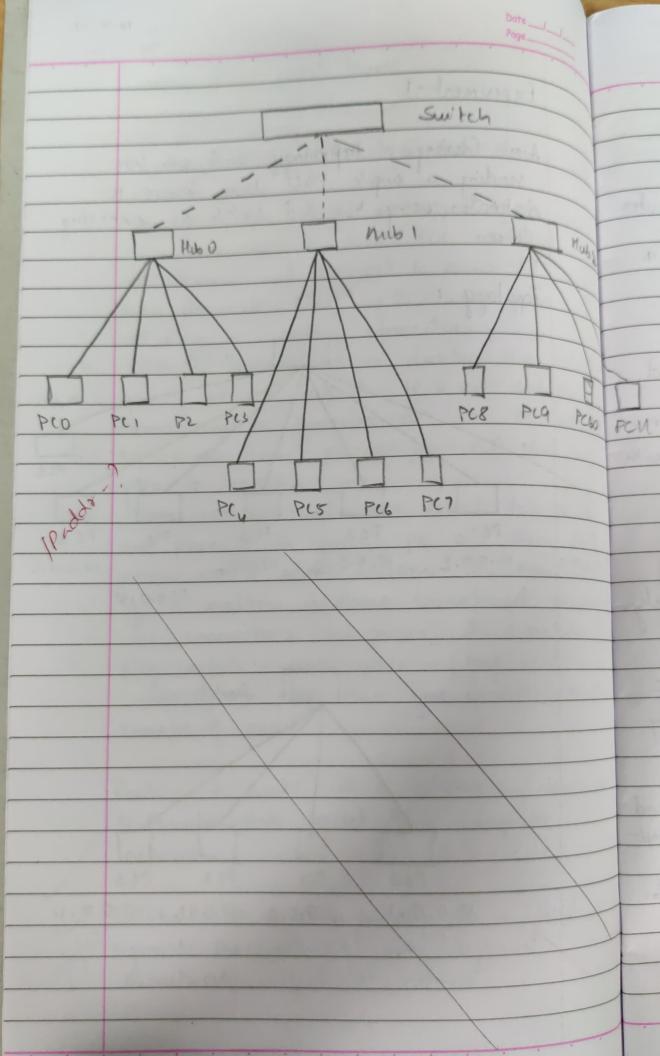
## CISCO PACKET TRACEBINI22 17 Interface overview: When we open packet traces we are presented by: -> mais tool bass - consists of shorted to tile and ealit commande -> Workspace => two trypes -> logical: not relative to position -> freat physical: relative to position -> Simulation bas => has relative simulation as well -> network component box: dwice type selection bon and device specific bon rowers, muls, suitches etc. -> Device spécific bon: consists of spécific -> user ereated packet window: This window manages the packets you put in the network during simulation made. 18 address V4: 32 bits - 4 octobs subnet mask = network address + host address PCO

Creating liket packet tracer Open packet-traces In dwice schedure select a end device and In connection select a copper cross over cable and acld to PC-PT PCO and select tast ethernet and connect to server - PT server tast ethernet. The lights turn green indicating a working connection. Click on server and in durktop top selections of the ipvh to 10.0.0.1 and the subnet mask is generated for the entered phe Repeat the same process for PCO and set ipvh to 10.0.0.2 From common tool bar select date packet and place it on generic pe and then on generic server select realtime or simulation if in qualtime it shows transferred successful the connections are proper. In simulation play controls -> auto capture -> play controls -> auto capture / play then you can see realting transfer of packet. Rowing: A nowice is a network my dewice used to transfer data packet blu computer Switches: It is a networking device used to signest the network into different subnetwork called tar networks.



Procedure: using Hub: 1) Add generic hub and scuen PC's to the Logo logical workspace a) Contiquae the IP address of the PC's tuom 10.0.0.1 to 10.0.0.7 3> connect all pc's to hub using Layers ! Select the source PC and in duktop tab select the command prompt option type ping 10.0.0,2. This pings PC2 and sy Simulation time: Select simple PDV and select the source and distination. Click on auto capture to start simulation and start the transfer of parkets Using switch: 1) Add generic switches and then connect

PC'S 10 the switch very copper straight

cable.

27 contigues IP address of each PCS in the

configuration tob. Ensure that IP is different

for every PC starting trom 10.0.0.1

to 10.0.0.7 add pasts by dicking on durice Realtine ein: Select source Pc and in the disktop select command perompt option. In

command line ping soti distinction PC by specifying its IP. simulation: Select the simple PDU and school the source and destination computer dicking on auto appears allows us to see parket transfer. Hybrid mode: i) Add a switch and three hubs and ii) connect switch and three hubs with copper cores over wire because it is in the same layer using copper straight wire. iv) Configure the IP of each of the PC and add a note below each PC displeying the part IP addresses Realtinu mode: Sclect PC you want to send packet thom and open its command prompt specifying its it adds us. A suponse is sent by distination PC to some pour specifying its PC to source PC.

Simulation mode: Add a simple PDU by sclientry
the pair of PC and dek on auto
capture trom right parel. Observation: -> Hub: Learning outcome; i) when connection blu hub and devices is established Murough copper straight through with as they belong to different daylere

ii) No. of ports can be added:

needed by cicking on the device and adding the needs any port,

ii) Hub broadcasts the parkets to all the connected devices and the parket is only accepted by matching with IP addres . pinging 10.0.0.7 with 32 bytes of data

Reply trom 10.0.0.7. Syte=32

How One Result: PC> ping 10.0.0.7 Reply trom 10.0.0.7 byte = 32

Home Ome

ping statistic ton 10.0.0.7

packet set = 2 recieve 2 losts

· Leagning outcome: i) When source device serde a muse to switch it only sends the museage to the distination in like hub which broads over the evise notwork. erd dwices in through copper straight cooble as they belong to different netro needed by clicking on device and adding the necessary ports. Hybrid mode! Learning outcomes: i) switch and hub crossover cable and the durices and hubs are connected using lap cable copper con straight through as they are different network. ii) Switch after reciving the paket sende it to the hub containing the dishnatin PC. Present legilo