Thoutes & PC Experiment Airs: Configuring IP address to hunter in Packet thack to lown more about Piny Suspences such as ereply, request from I out, destination unhachable etc 10.00.10 20.0.0.10 conology: gerelic rodes Fa 010 7 1 Fa 0 PC-FT PCZ 10.002 10.0.01 Vero cedure: Place a generic novter a 2 generic PC's in the · It can be found on the bottom left colner woll space · Connect the growter. A PCIS Cisting Copper Crow over ' Ktell if from Connections Configure 30 addres for each \$6 & in the configuration tab of settings let getway for both Pc; to Prouters · Clêtle on Generic Router & 90 to CCI Fab Enable bollowing commands to set up a connection between PCS a generic nowter thorough greate way 10-0-10 · No enable config t intelface Fast ethernest 660 if addren 10-00.10 255-0-0.0

no Shut · Now to set up connection between PCs & the houtes through gateway 20.0.0.10 · laterface fastethernet 110 ip addren 20.0.0.10 255,0000 The lights which were ander until then will keen green now, indicating that the 2 derices are heady for comunication Similation mode: Add a Simple PDU Gyselecting the PC" of click on auto capture from, Stight Parel Real time made: Select the PC your want to send the packet ropen is command prount from desktop tab- Specify destruction PC by specifying the destr address, à response à sent from destre pe to sousse Pinging 20.00.0 with 82 by ter of data Le great fixed out Reply from 20.0.0-1: bots=32 line: 1mg TTL = 127

Ping Statistics for 20.0.0.1: Mayor states of the Parkets: Next = h, deceived = 3, Cost = 1 (25-6 60+1) Pinguy 20.0.0 & with 82 byth of dela Reply from 20.0.0.1: bytes >32 time: Ims TTL=127 4 4 4 4 n m a a a a Ping Statistics from 20.0.0.1

Packets Lost-sent=h, received=4 Lost=0 (04.10m) Lost=0 (04. low) · Line of Males - , Line is with a subsection Andrew Control of the Control of the

with multiple starteds Topolog9 10.0.0.10 20.0.10 20.0.0.10 30.0.0.10 30.0.0.20 fa 0 10.0.0.1 Prodedure - PU to growter on Connected o open each router -> CLI -> Set the ip address for each ports > To teach each gover about the networks not connected disposit. · Click on Grater -> EZI -> we the following code after setting the interface serial Polt 2 H TP route Destination retwork address subnet mask next hopaddreu> . In CLI use the command show it soute & make Sure the each router knows all the networks. Simulation mode 1) Select simple PDU, select soulce + destination 2) Click auto Caphine huntime: i) Click on a PC -> Desktop -> Command promt 2) Ping to all the 1p addresses of ports individual

## Observation

- " In Similation mode once source & dest" core velected PDU travels from PC to houter a hops to the lades consecutive nowlets a binally to the dest" PC
- · Upon Clicking a PDU, it gives PDU into specifying layers & their addresses and statues
- · PDU is downloaded at each growter sent to the next denice a finally to dest PC
- · Pinging is done individually in can there's an error in the connection it can be gresolved at mat level
- since the connection was used for first time

  The second Ping has no packet loss. (Dequest fined out)

## Learning

- connection type is toggled for layer 1 to 3 to
- Destination undeachable is the suspense we get when the growters doesn't know the ip address of other networks connected indirectly though softher nowtels.

rather houtels.

Intil Ld

Indirect connections we labelled as S i.e Static houte