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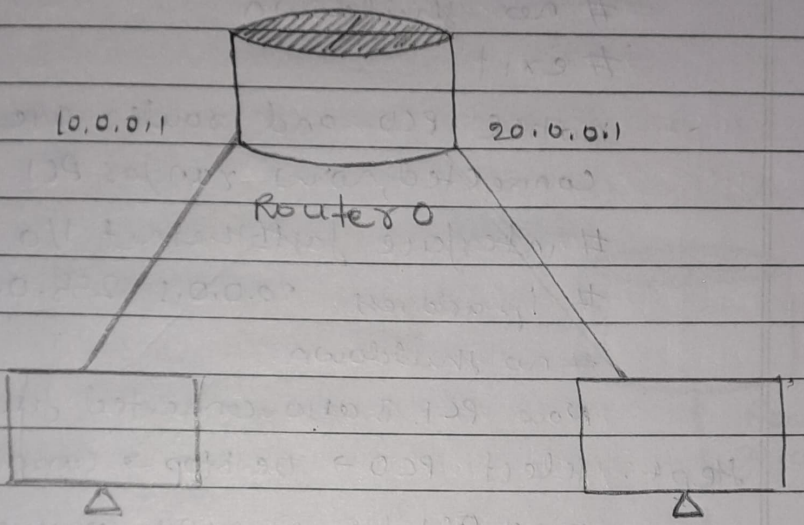
Lab-11

Objective: To create a simple network consisting of 2 PCs connected to the router facilitating communication between two PCs through network.

Topology:



Ip 10.0.0.10 Ip 20.0.0.10

Def gateway 10.0.0.1 Def gateway 20.0.0.1

Procedure:

Step 1: Place 2 generic PCs and one generic router. Connect both the PCs to the routers fast ethernet ports using copper cross over wire

Step 2: Select PC0 wiring → fastethernet 0, set Ip address as 10.0.0.10 and default gateway as 10.0.0.1. Similarly for PC1 Ip 20.0.0.10 and default gateway as 20.0.0.1

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Step 3: Select router and go to the CLI.
exicute the following commands
>enable
#config terminal
#interface fastEthernet 0/0
#ipaddress 10.0.0.1 255.0.0.0
#no shutdown
#exit
notice PC0 and router are successfully connected, now run for PC1
#interface fastEthernet 1/0
#ip address 20.0.0.1 255.0.0.0
#no shutdown
Now PC1 is also connected successfully.

Step 4: Select PC0 → Desktop → Command propt
ping PC1 by running command
ping 20.0.0.10
observe the output

Observation
PC0 successfully ping PC1 with 32 bytes of data
Routers can be used to manage communication between two diff networks while doing ping test we can see that chance of losing one packet are high bcz the router will be busy in establishing the connection.