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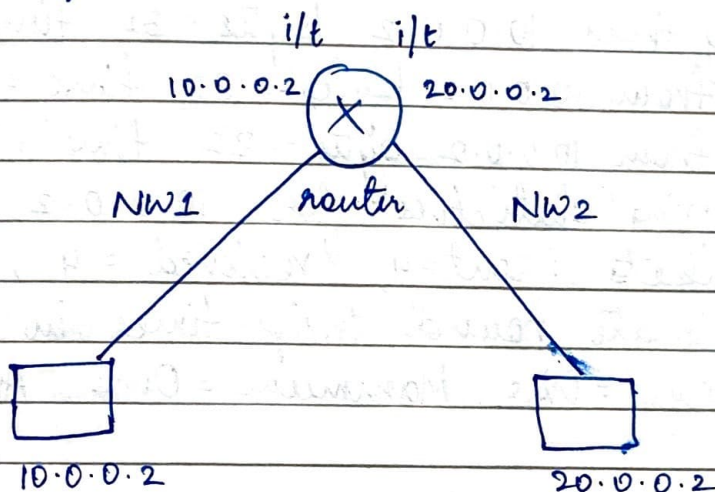
EXPERIMENT - 2

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AIM: Create an end to end connection using router and configure IP addresses. Explore ping responses, destination unreachable, request timed out.

TOPOLOGY:



PROCEDURE:

* Configure IP addresses of PCs.

* Configure router CLI:

config. ←
 terminal
 no
 enable
 interface Fa0/0
 ip address 10.0.0.2 255.0.0.0
 no shutdown
 exit

* Update gateway address of PCs:

PC1 : 10.0.0.2

PC2 : 20.0.0.2

* ping interface 10.0.0.2 and 20.0.0.2

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OBSERVATION:

PC 10.0.0.1 : After gateway is set
ping 10.0.0.2
Reply from 10.0.0.2 bytes=32
time=0ms TTL=225

Reply from 10.0.0.2 bytes=32 time=0ms TTL=225
Reply from 10.0.0.2 bytes=32 time=0ms TTL=225
Reply from 10.0.0.2 bytes=32 time=0ms TTL=225

ping statistics for 10.0.0.2 :
packets : sent=4, received=4, lost=0 (0% loss)
approximate round trip times in milliseconds:
Minimum=0ms, Maximum=0ms, Average=0ms

ping 20.0.0.1

pinging 20.0.0.1 with 32 bytes of data:

Request timed out

Reply from 20.0.0.1 bytes=32 time=0ms TTL=127
Reply from 20.0.0.1 bytes=32 time=0ms TTL=127
Reply from 20.0.0.1 bytes=32 time=0ms TTL=127

ping 20.0.0.2
(successful)

pinging 20.0.0.2 with 32 bytes of data :
Reply from 20.0.0.2 bytes=32 time=1ms TTL=127

Before gateway is set

ping 20.0.0.2

pinging 20.0.0.2 with 32 bytes of data :
Request timed out
Request timed out

Request timed out
Request timed out

ping statistics for 20.0.0.2 :
Packets: sent=4, recieved=0, lost=4 (100% loss)

RESULT :

- * Request timed out when gateway address is not set.
- * When both gateway and IP addresses are set, ping is successful.

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