

Lab 2

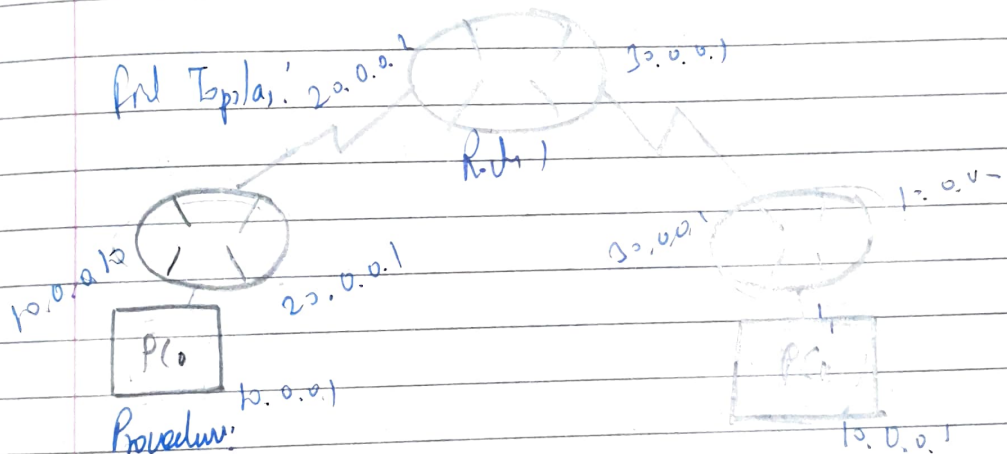
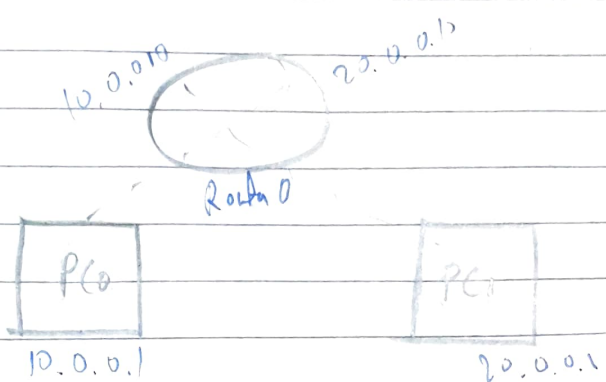
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Karl's Lab
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Aim: Configuring IP address to Router in packet tracer. Explain the following messages: ping Response, Destination unreachable, Req time out, Reply.

Topology:-



Procedure:

- 1) Use a copper cross over wire to connect the 2 PCs to the router
- 2) Configure each PC with a specific IP address. Also enter gateway for both PCs.
- 3) Open Router CLI & do this:

enable
conf t
interface fast eth 0/0
ip address 10.0.0.1 255.0.0.0

no shut
exit
interface FastEthernet 1/0
ip address 20.0.0.1 255.0.0.0
no shut
exit
exit
exit

4) After entering these commands the lights b/w PC & Router will become green

⇒ For 3 Router & 2 PCs

i) Add 3 routers and 2 PCs to workspace and connect PC to router by using crossover and connect Router by using Serial PL.

ii) Each PC is configured by a specific IP address and IP address is given by each specific PC after that we get ready for b/w PCs

iii) follow the following commands for 1st of 2 router after setting IP all as 2000.2

Now for routers follow the same commands & ip address as 20.0.0.1 in 2000 and 20.0.0.2 for 2nd router %

v) Teaches routes of all the networks

~~Router~~

Observation:

→ For single Router
Learning Outcomes:

We used router to set a connection
b/w 2 end devices at first it shows
"Req. Not set".

→ Router

Ping 20.0.0.2

Pinging 20.0.0.2 \approx 31 bytes of data

Reply from 20.0.0.2: bytes = 32 time = 0ms TTL = 121

Reply from 20.0.0.2: bytes = 32 time = 0ms TTL =

Reply from 20.0.0.2: bytes = 32 time = 0ms TTL = 17

Reply from 20.0.0.2: bytes = 32 time = 0ms TTL = 17

Reply from 20.0.0.2: bytes = 32 time = 0ms TTL = 17

Ping statistics for 20.0.0.2:

App Packet sent: 500000000 (0% loss)

Approximate round trip time in milliseconds

Minimum = 0ms, Maximum = 0ms, Average = 0ms

for 2 routers
Outcomes:

1) Initially we get Req time at then later we get the results

Req 40.0.0.1

Req is 40.0.0.1 \bar{c} 32 bytes of data

Repls from 40.0.0.1 bytes = 32 time 21 to T71-10

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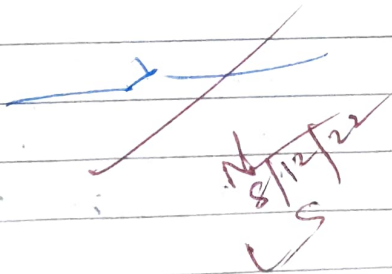
Repls from 40.0.0.1 bytes = 32 time 21 to T71-10

is statistics for 40.0.0.1

Packets sent = 4 Received = 4 lost = 0 Copies

Approximate round trip time in milliseconds

Minimum = 1ms, Maximum = 1ms Average = 2ms



Air: 60
packet

Topology:

4)

Pro

1)

Play
2 go
sh

2)

len
thru