

23/6/23

Q) Configure default route , static route to router.

Yewale question

So 1: Steps :

- ① Add 2 PCs & connect them to generic router.
- ② Configure the PCs by setting their IP addresses to 10.0.0.1 & 20.0.0.1 respectively.
- ③ Set the gateways at 10.0.0.2 & 20.0.0.2 respectively.
- ④ Go to cmd line interface in router and enter 'no' for continue with configuration dialogue twice.
- ⑤ Type command 'config terminal' and enter. Continue by typing the command 'interface fastEthernet 0/0'. Follow it by entering command 'ip address 10.0.0.2 255.0.0.0'. Type command 'no shutdown' and establish the connection.
- ⑥ Repeat same for PC 20.0.0.1.
- ⑦ Repeat same for PC 3 and PC 4.
- ⑧ Connect router 1 and router 2 to router 3.
- ⑨ Routers to be connected through serial PTE and PC to router 1 should be connected through copper cross-over.
- ⑩ Router 1 CLI type -
 - enable
 - config
 - interface serial 0/0
 - ip address 50.0.0.2 255.0.0.0
 - no shutdown
 III¹⁴ for 50.0.0.1 255.0.0.0

The connection b/w router 1 & 3 is now active
- ⑪ Repeat step 10 for router 2 and 3.
- ⑫ Go to router 1 CLI & type show ip route.
- ⑬ We now connect routers to each other by typing
 - ip route 30.0.0.0 255.0.0.0 50.0.0.1
 - ip route 40.0.0.0 255.0.0.0 40.0.0.1 for router 1

ip route 10.0.0.0 255.0.0.0 60.0.0.1

ip route 20.0.0.0 255.0.0.0 60.0.0.1 for router 2

ip route 10.0.0.0 255.0.0.0 50.0.0.1

ip route 20.0.0.0 255.0.0.0 50.0.0.1

ip route 30.0.0.0 255.0.0.0 60.0.0.1

ip route 40.0.0.0 255.0.0.0 60.0.0.1 for router 3

(14) PC > ping 30.0.0.1

pinging 30.0.0.1 with 32 bytes of data:

Reply from 20.0.0.2: destination host unreachable

" — " — " — " —
" — " — " — " —
" — " — " — " —

ping statistics for 30.0.0.1: packets=4, lost=4 (100% loss)

lost=4 (100% loss)
ping = forward path not

This is before statically connecting PC to router 2

(15)

PC > ping 40.0.0.1

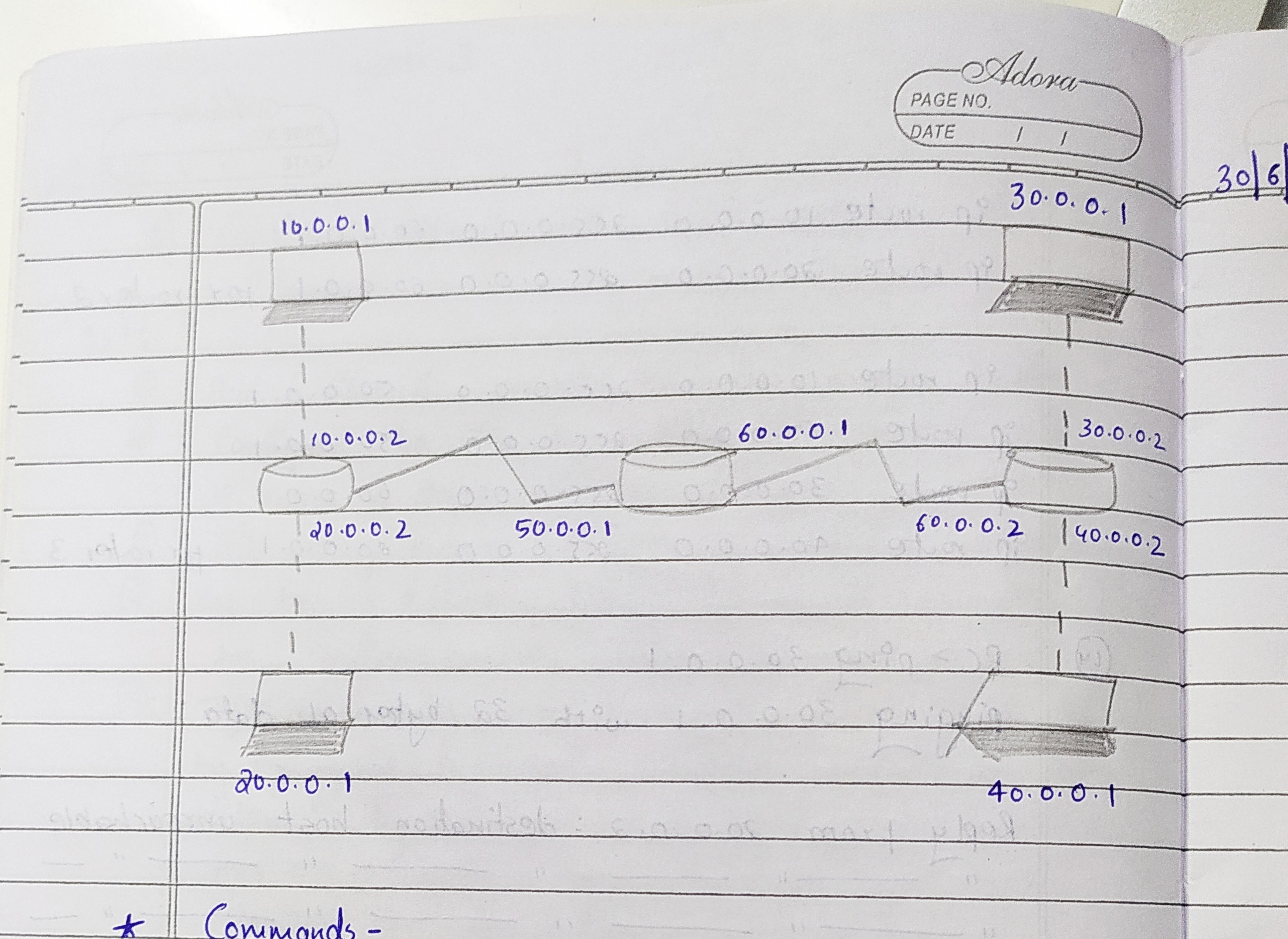
pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1: bytes = 32 time=2 ms TTL=125

" — " — " — " —
" — " — " — " —
" — " — " — " —

Show IP route?

Topology →



* Commands -

* no → enter (twice)

enable → enter

config terminal → enter

interface fastEthernet 0/0 → enter

ip address 10.0.0.2 255.0.0.0 → enter

no shutdown → enter

for router connection -

* line 0/0 → enter

interface serial 0/0 → enter

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