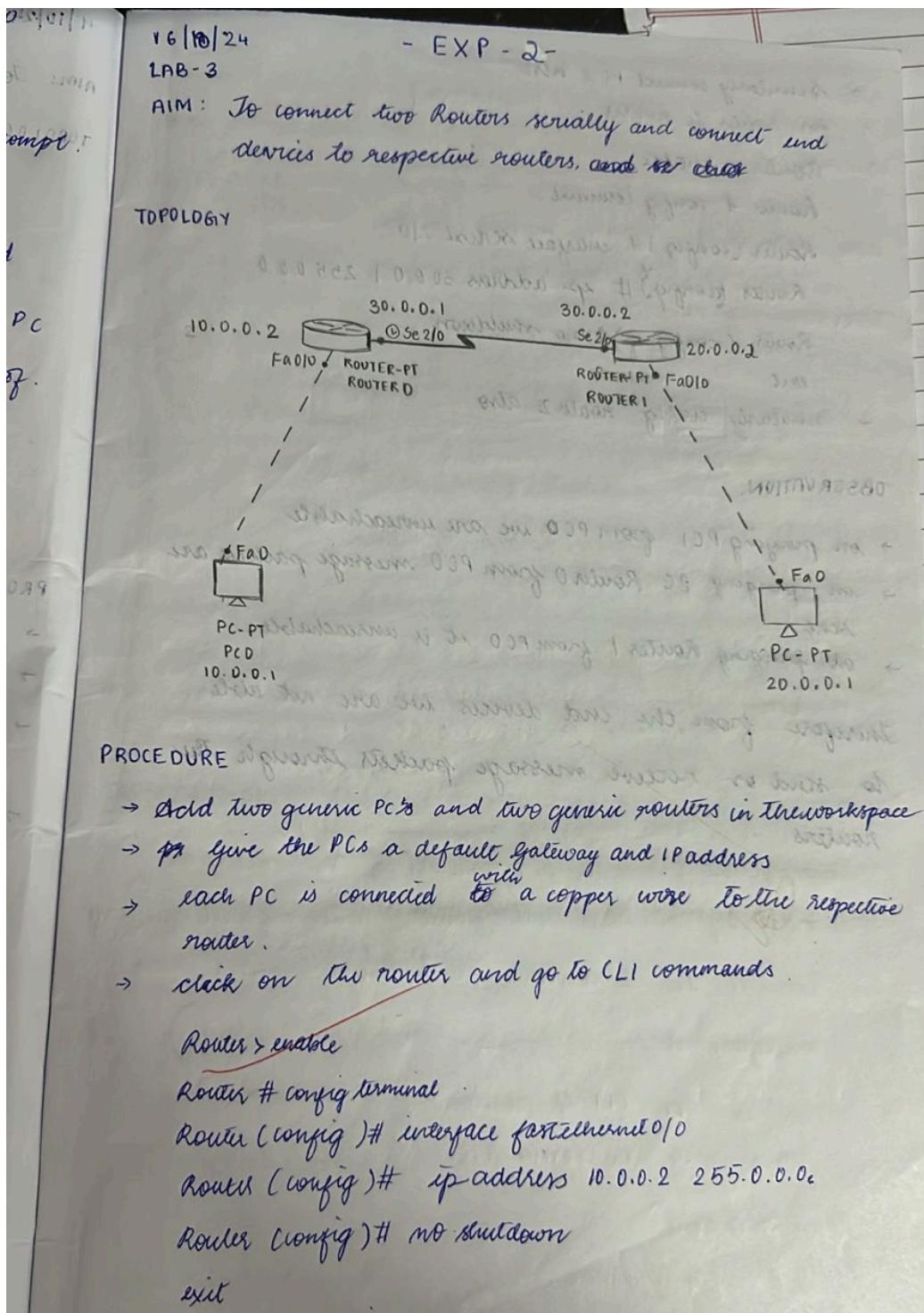


LAB-2 16/10/24 (EXP-2b AND 3a)

OBSERVATION



- similarly connect PC 2 also
- for router to router
- Router > enable
- Router # config terminal
- Router (config) # interface serial 2/0
- Router (config) # ip address 30.0.0.1 255.0.0.0
- Router (config-if) # no shutdown
- exit
- similarly config. router 2 also

OBSERVATION:

- on pinging PC1 from PC0 we are unreachable
- on pinging PC Router0 from PC0 message packets are sent
- on pinging Router1 from PC0 it is unreachable.

Therefore from the end devices we are not able to send or receive message packets through the routers

- EXP - 3 -

QUESTION :

AIM : Configure default route, static route to the Router
Configure static route to the Router

PROCEDURE : → Continuing the same CLI terminal as exp 2.
we go to Router 0's CLI and do the following commands

Router # >enable

Router # config terminal

Router (config) # ip route 20.0.0.0 255.0.0.0
30.0.0.2

Router (config) # exit

Router # show ip route

Gateway of last resort not set

S 20.0.0.0/8 [1/0] via 30.0.0.2

C 20.0.0.0/8 is directly connected, FastEthernet0/0

C 30.0.0.0/8 is directly connected, Serial2/0

→ similarly for Router 1

OBSERVATION : the end devices are connected and on

~~pinging PC1 from PC0 message packets~~

~~are sent from PC0 to PC1 and 3 are sent~~

~~1 is lost~~

#

Q

Ja empfunden

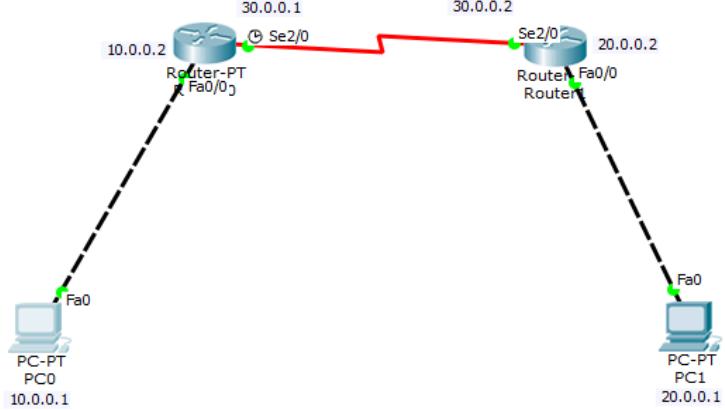
gucken objet top 1 reicht für 100 mit der op

warten und dann drücke

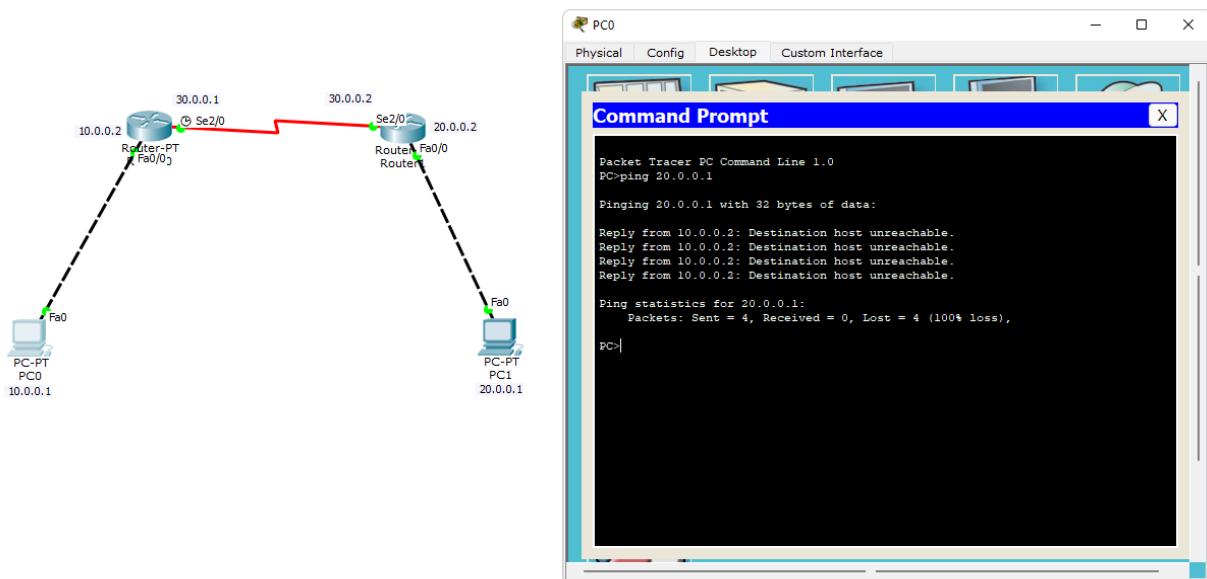
oben < unten

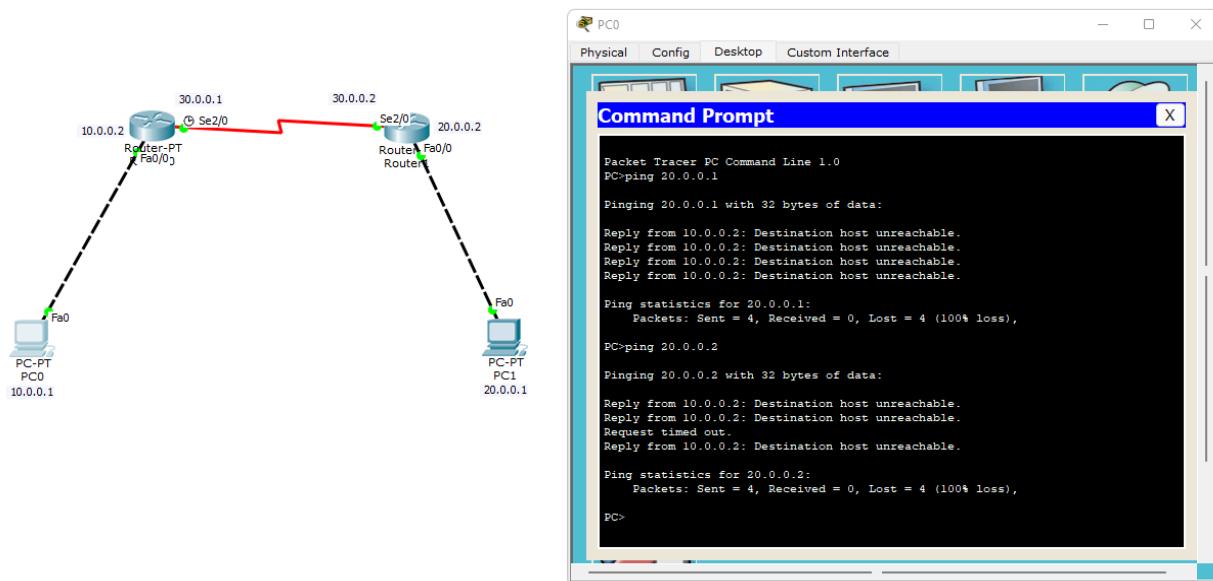
längstes pfeil ist falsch

TOPOLOGY

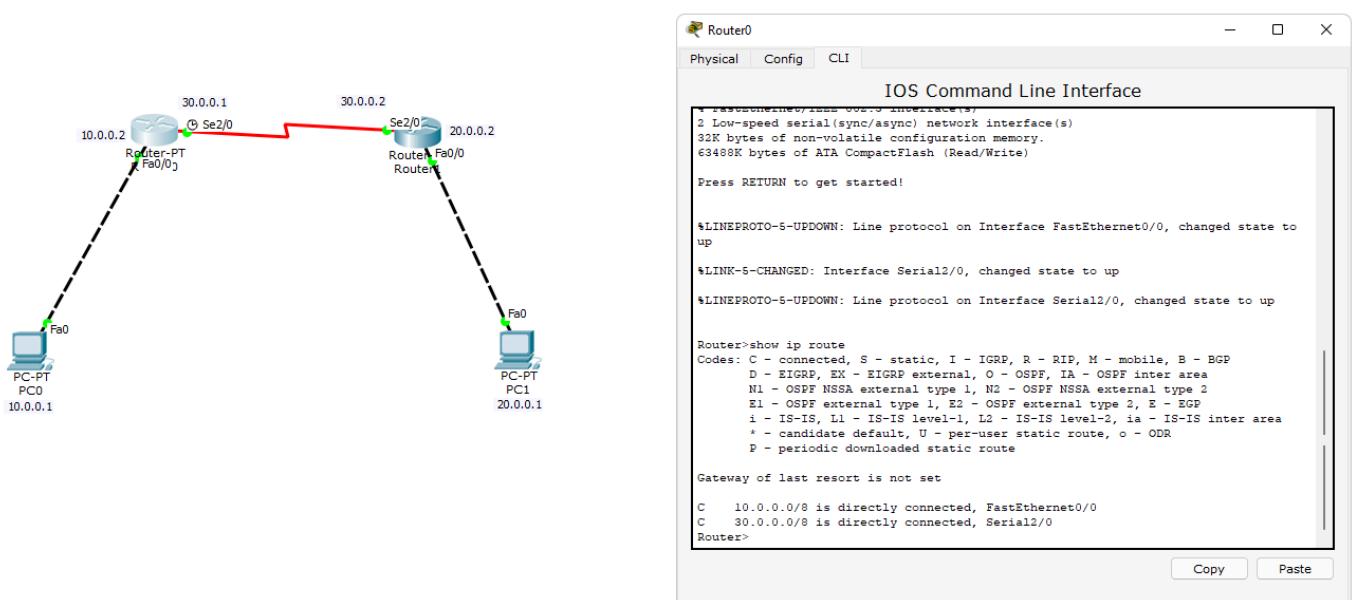


OUTPUT





(After static routing)



PC0

Physical Config Desktop Custom Interface

Command Prompt X

```
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=5ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

PC>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=4ms TTL=126
Reply from 20.0.0.1: bytes=32 time=11ms TTL=126
Reply from 20.0.0.1: bytes=32 time=6ms TTL=126

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 11ms, Average = 7ms

PC>
```

The screenshot shows a network simulation environment with a title bar "PC0" and tabs "Physical", "Config", "Desktop", and "Custom Interface". A "Command Prompt" window is open, displaying ping results between two hosts:

```
PC>ping 10.0.0.2
Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=5ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

PC>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=4ms TTL=126
Reply from 20.0.0.1: bytes=32 time=11ms TTL=126
Reply from 20.0.0.1: bytes=32 time=6ms TTL=126

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 11ms, Average = 7ms

| PC>|
```