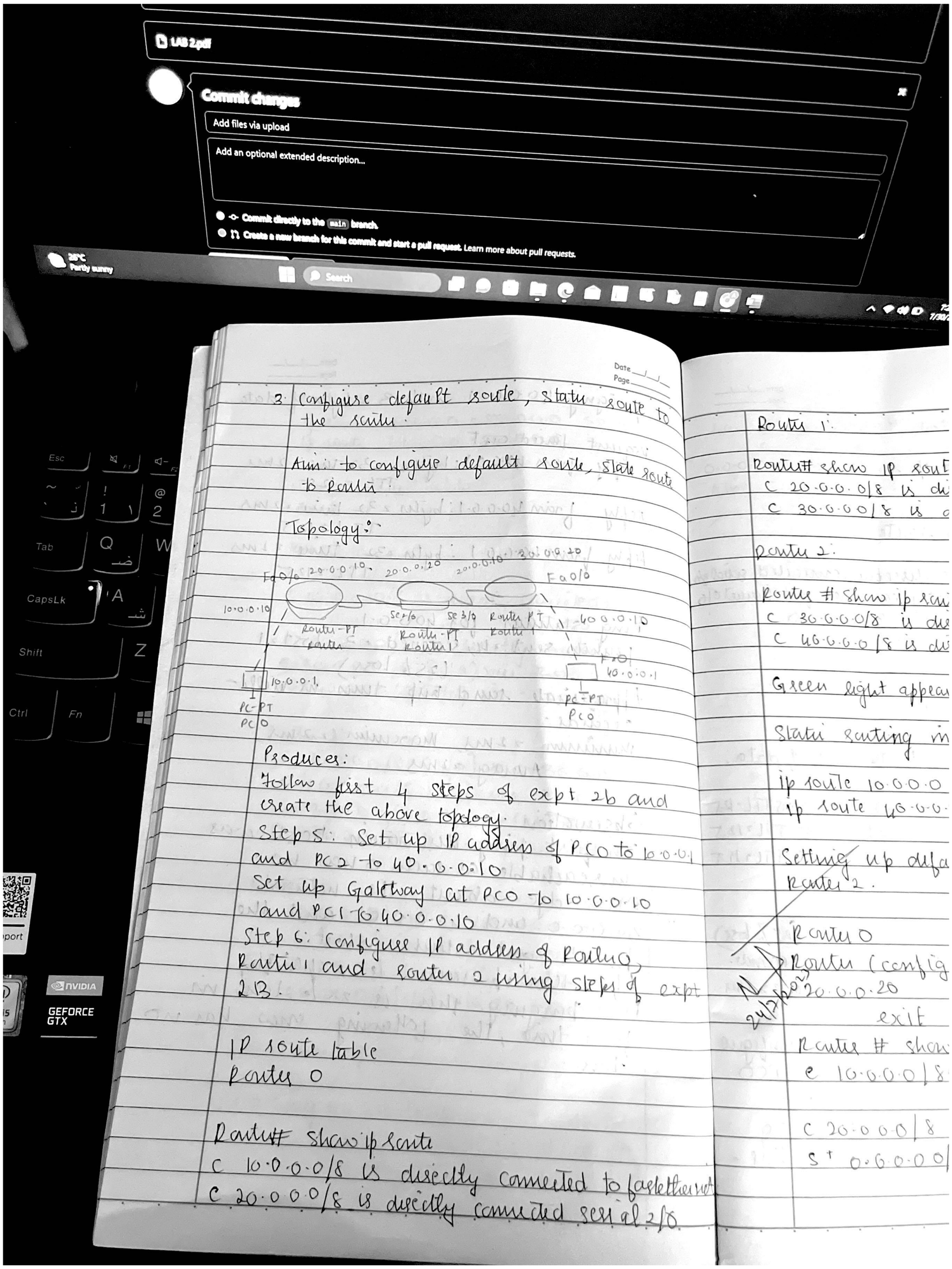
CONFIGURE DEFAULT ROUTE,STATE ROUTE TO THE ROUTER



Date __/__/__
Page

Router 1:

Router# show ip route
C 20.0.0.0/8 is directly connected, serial 2/0
C 30.0.0.0/8 is directly connected, serial 3/0

Router 2:

Router # show ip route
C 30.0.0.0/8 is directly connected, serial 2/0
C 40.0.0.0/8 is directly connected, fastethernet 0/0

Green light appear on the wires.

Static routing in R1

ip route 10.0.0.0 255.0.0.0 20.0.0.10
ip route 40.0.0.0 255.0.0.0 20.0.0.20

Setting up default routing in Router 0 and Router 2.

Router 0

Router (config) # ip route 0.0.0.0 0.0.0.0 20.0.0.20
exit

Router # show ip route
e 10.0.0.0/8 is directly connected, fastethernet 0/0
C 20.0.0.0/8 is directly connected serial 2/0
S* 0.0.0.0/0 [1/0] via 20.0.0.20

Router 2

Router (config) # ip route 0.0.0.0 0.0.0.0 30.0.0.10
exit
Router # show ip route

C 30.0.0.0 /8 is directly connected serial 2/
C 40.0.0.0/8 is directly connected, fastethernet 0/
C 0.0.0.0/0 [1/0] via 30.0.0.10

Ping output:
PC0
PC> ping 40.0.0.1

Pinging 30.0.0.1 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.1: bytes=32 time=2ms TTL=12
Reply from 40.0.0.1: bytes=32 time=2ms TTL=12
Reply from 40.0.0.1: bytes=32 time=2ms TTL=12

Ping status for 40.0.0.1
Packets: sent=4, received=3, cost=1 (25% loss)
Approximate round trip times in milli-seconds:
Maximum=2ms, minimum=2ms, Average=2ms

Observation: Through static routing we configure the network here. When we ping PC1 to PC0 first packet is lost but after that all are transmitted. We don't have to set routing for each and every routes manually here.

Aim: To

Topo

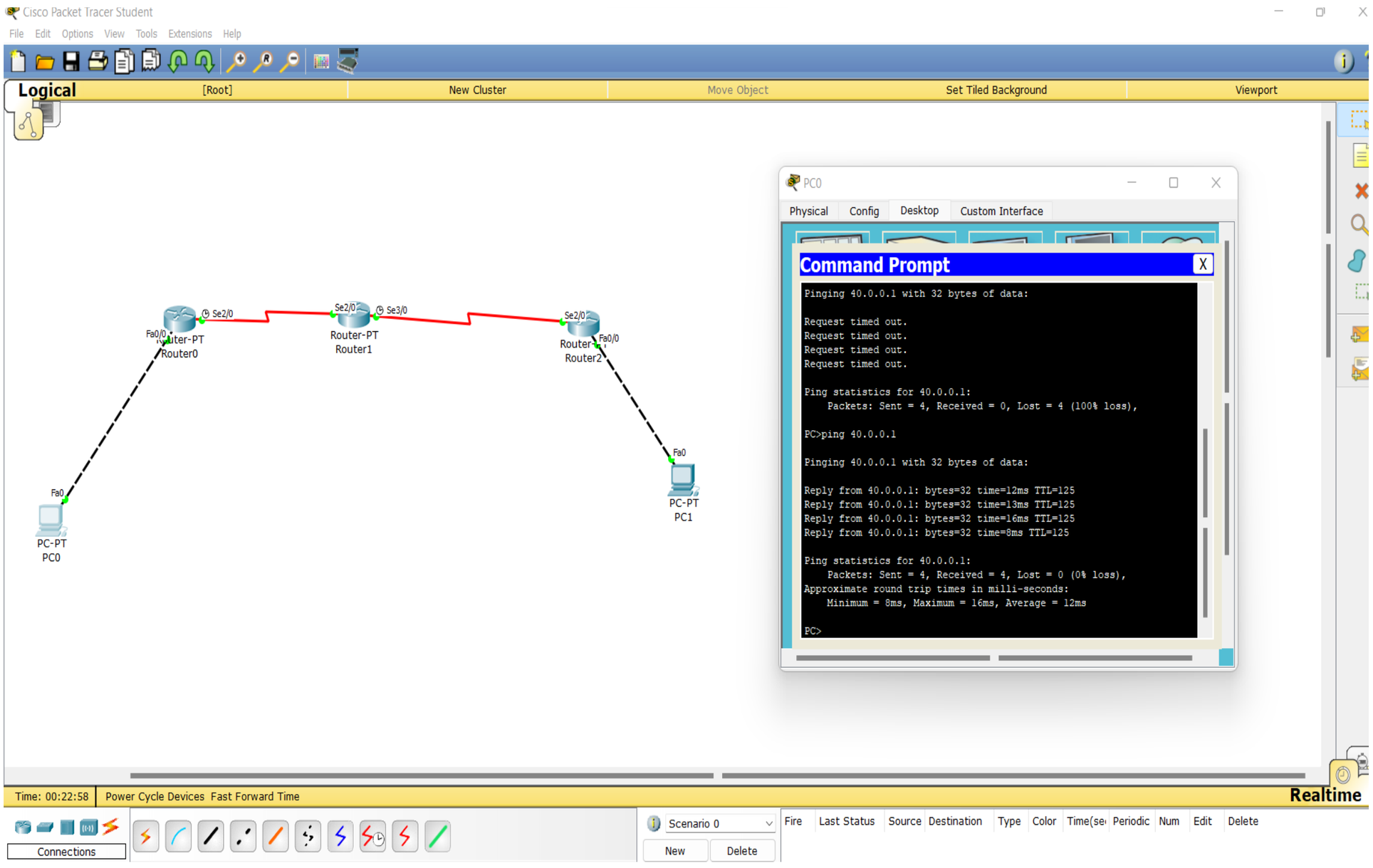
Fa0

PC-PT
PC0
10.0.0.4
GW

P

1)

2)


Cisco Packet Tracer Student
File Edit Options View Tools Extensions Help
Logical
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Router-PT
Router0
Router-PT
Router1
Router-PT
Router2
Se2/0
Se3/0
Fa0/0
PC-PT
PC0
PC-PT
PC1
PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
Pinging 40.0.0.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 40.0.0.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
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=12ms TTL=125
Reply from 40.0.0.1: bytes=32 time=13ms TTL=125
Reply from 40.0.0.1: bytes=32 time=16ms TTL=125
Reply from 40.0.0.1: bytes=32 time=8ms TTL=125
Ping statistics for 40.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 8ms, Maximum = 16ms, Average = 12ms
PC>
Time: 00:22:58
Power Cycle Devices Fast Forward Time
Realtime
Connections
Scenario 0
New
Delete
Fire
Last Status
Source
Destination
Type
Color
Time(se
Periodic
Num
Edit
Delete