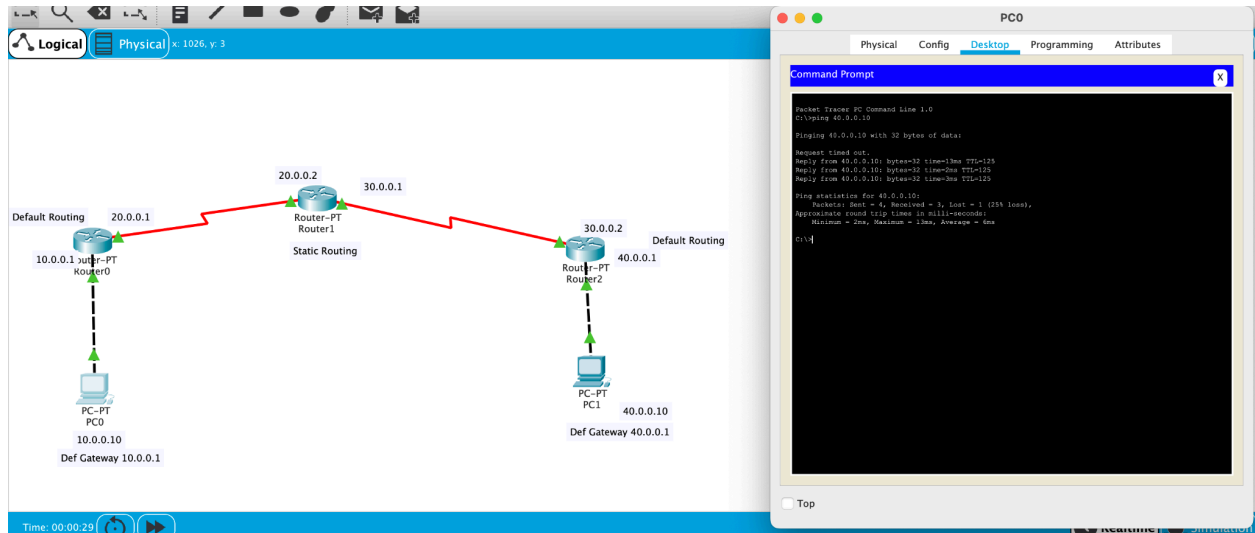
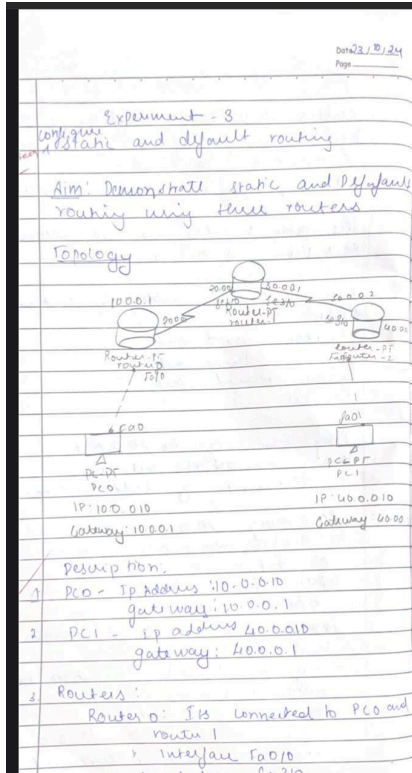


Experiment 3: Q)CONFIGURE STATIC AND DEFAULT ROUTING





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Router 1: connects Router 1 and Router 2

Interface S0/0/0
Interface S0/0/1

Router 2: connects PC1 to Router 1

Interface S0/0/0
Interface Fa0/0: 40.0.0.1

Procedure:

- 1) Config the PC0 and PC1
- 2) Configure Router Interface serial 0/0/0

Router > enable
Router# config terminal
Router(config)# interface fastethernet 0/0/0
Router(config)# ip address 10.0.0.1 255.0.0.0
Router(config)# no shut
Router# exit

Router# config terminal
Router(config)# interface serial 2/0
Router(config)# ip address 20.0.0.1 255.0.0.0
Router(config)# no shut
Router# exit

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Router 2 CLI:

```
Router > enable
Router# config terminal
Router(config)# interface fastethernet 0/0/0
Router(config)# ip address 40.0.0.1 255.0.0.0
Router(config)# no shut
Router# exit
```

Router 1 CLI:

```
Router > enable
Router# config terminal
Router(config)# interface serial 2/0
Router(config)# ip address 20.0.0.1 255.0.0.0
Router(config)# no shut
Router# exit
```

Reply from 40.0.0.10: bytes=32 time=6ms TTL=125

Ping statistics for 40.0.0.10:
Packets: sent=4, Received=4, lost=0 (0% loss)

Observation:
If configuration and cabling are correct, you will receive successful ping replies between 2 PCs.

Default routing for Router 0

```
enable
config terminal
ip route 0.0.0.0 0.0.0.0 20.0.0.1
exit
show ip route
```

C 10.0.0.0/8 is directly connected, Fast Ethernet 0/0/0
C 20.0.0.0/8 is directly connected, serial 2/0
S* 0.0.0.0/0 [1/0] via 20.0.0.2

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Router 0

```
Router > show ip route
```

C 10.0.0.0/8 is directly connected to Fast Ethernet 0/0/0
C 20.0.0.0/8 is directly connected to serial 2/0
S* 0.0.0.0/0 [1/0] via 20.0.0.2

Router 2:

```
C 30.0.0.0/8 is directly connected to serial 3/0
C 40.0.0.0/8 is directly connected fastethernet 0/0
S* 0.0.0.0/0 [1/0] via 30.0.0.1
```

Router 1:

```
S 10.0.0.0/8 [1/0] via 20.0.0.1
C 20.0.0.0/8 is directly connected to serial 2/0
S 30.0.0.0/8 is directly connected to serial 3/0
S 40.0.0.0/8 [1/0] via 30.0.0.2
```

Outputs:
PC0 Ping 40.0.0.10
pinging 40.0.0.10 with 32 bytes of data:
Reply from 40.0.0.10: bytes=32 time=6ms TTL=125
Reply from 40.0.0.10: bytes=32 time=6ms TTL=125
Reply from 40.0.0.10: bytes=32 time=6ms TTL=125