

Configure default route, static route to the Router

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Lab: 03

Configure default route, static route

to the router

* connect devices as shown in topology

* Set IP addresses to all PC and router

Router

enable

config +

interface fastethernet 0/0

IP address 10.0.0.1 255.0.0.0

no shut

* Default route for the router 1, router 5, router 3

→ ① enable

config +

ip route 0.0.0.0 0.0.0.0 60.0.0.3

→ ② ip route 0.0.0.0 0.0.0.0 100.0.0.1

→ ③ ip route 0.0.0.0 0.0.0.0 50.0.0.3

* static routing for router 4, router 2, router 0, router 6, router 7

→ ①

ip route	20.0.0.0	255.0.0.0	60.0.0.1
ip route	30.0.0.0	255.0.0.0	70.0.0.1
ip route	40.0.0.0	255.0.0.0	70.0.0.1
ip route	50.0.0.0	255.0.0.0	70.0.0.1
ip route	80.0.0.0	255.0.0.0	70.0.0.1
ip route	100.0.0.0	255.0.0.0	70.0.0.1

if route 10.0.0.0 255.0.0.0 70.0.0.1
Similarly for rest routes

→ output :-

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=7ms TTL=126

Reply from 20.0.0.1 : bytes=32 time=6ms TTL=126

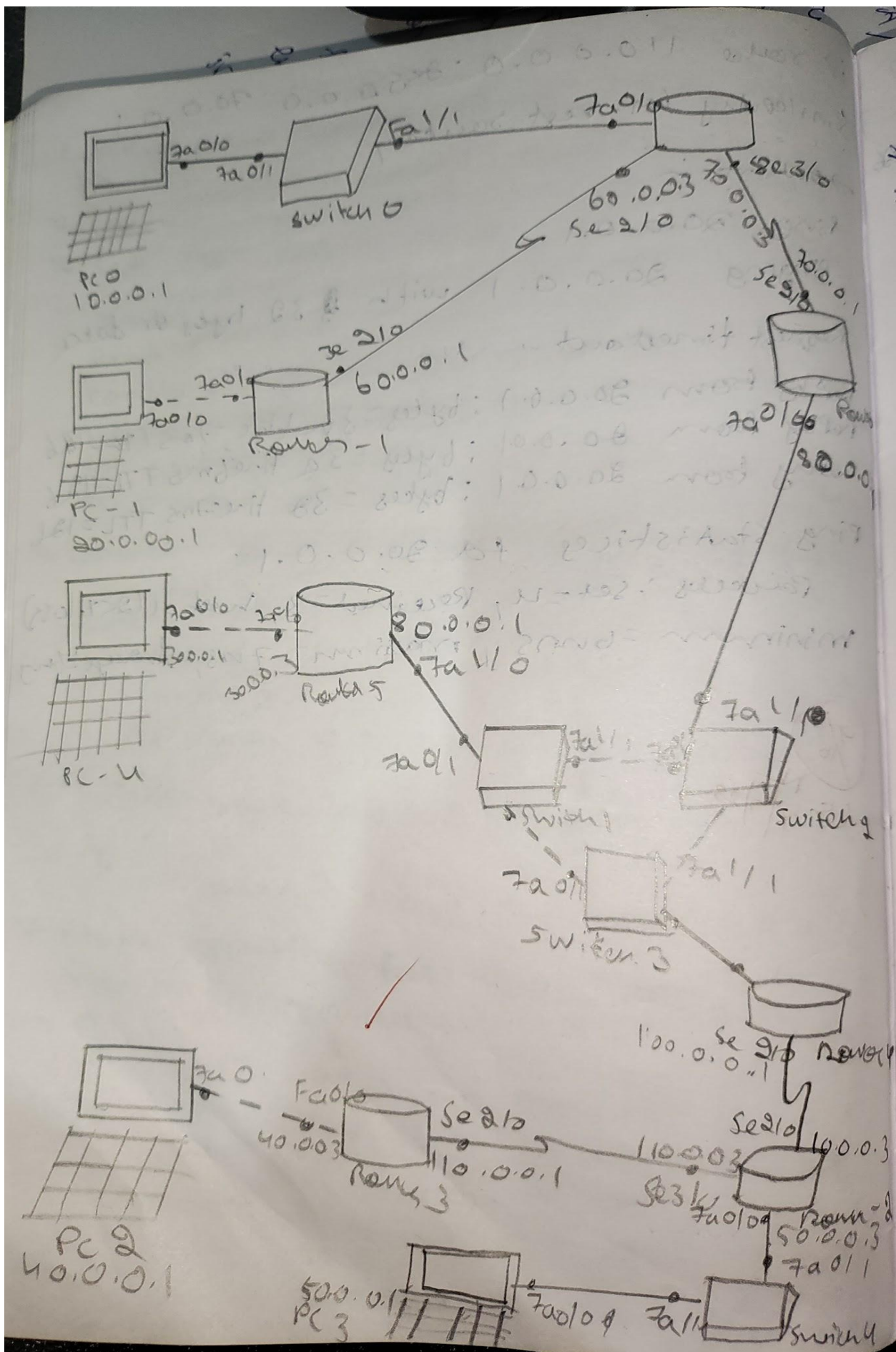
Reply from 20.0.0.1 : bytes=32 time=7ms TTL=126

Ping statistics for 20.0.0.1 :

Packets : Sent = 4, Received = 3, Lost = 1 (25% loss)

Minimum = 6ms, Maximum = 7ms, Average = 6ms

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Physical Config **Desktop** Programming Attributes

Command Prompt

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C:\>ping 90.0.0.2

Pinging 90.0.0.2 with 32 bytes of data:

Reply from 90.0.0.2: bytes=32 time=12ms TTL=252
Reply from 90.0.0.2: bytes=32 time=2ms TTL=252
Reply from 90.0.0.2: bytes=32 time=10ms TTL=252
Reply from 90.0.0.2: bytes=32 time=2ms TTL=252

Ping statistics for 90.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 12ms, Average = 6ms

C:\>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Request timed out.
Reply from 40.0.0.1: bytes=32 time=3ms TTL=123
Reply from 40.0.0.1: bytes=32 time=3ms TTL=123
Reply from 40.0.0.1: bytes=32 time=3ms TTL=123

Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 3ms, Average = 3ms

C:\>ping 50.0.0.1

Pinging 50.0.0.1 with 32 bytes of data:

Request timed out.
Reply from 50.0.0.1: bytes=32 time=3ms TTL=124
Reply from 50.0.0.1: bytes=32 time=6ms TTL=124
Reply from 50.0.0.1: bytes=32 time=2ms TTL=124

Ping statistics for 50.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 6ms, Average = 3ms

C:\>

```