Lab-3 To demonstrate config of default and static routes through a connection of router

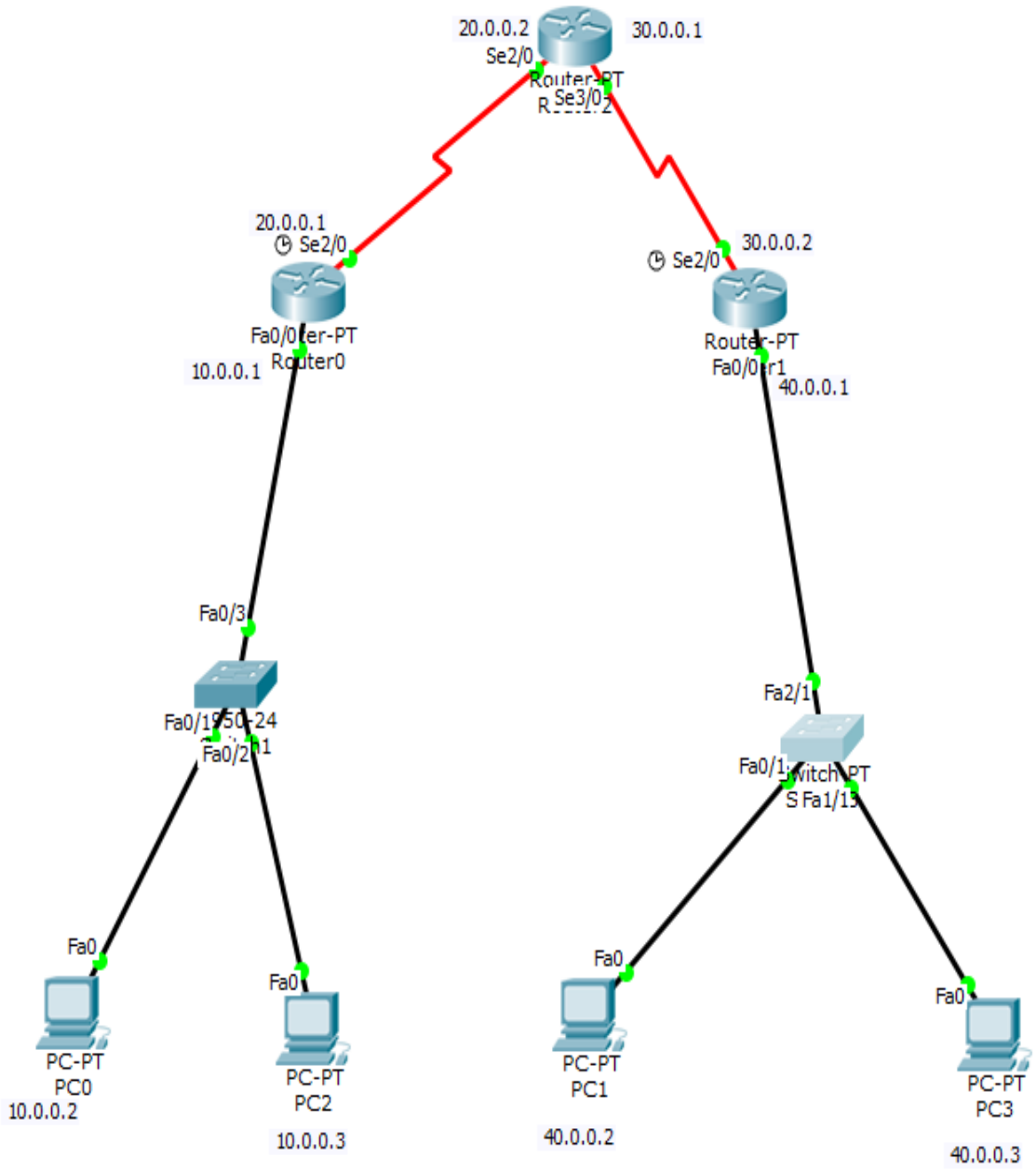
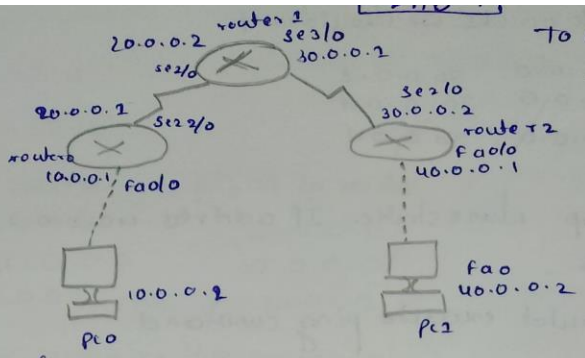


fig 3.1 To demonstrate config of default and static routes through a connection of router

```
PC>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=10ms TTL=125
Reply from 40.0.0.2: bytes=32 time=14ms TTL=125
Reply from 40.0.0.2: bytes=32 time=2ms TTL=125
Reply from 40.0.0.2: bytes=32 time=17ms TTL=125

Ping statistics for 40.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 17ms, Average = 10ms

PC>
PC>
PC>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 40.0.0.2: bytes=32 time=2ms TTL=125
Reply from 40.0.0.2: bytes=32 time=7ms TTL=125
Reply from 40.0.0.2: bytes=32 time=13ms TTL=125

Ping statistics for 40.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 13ms, Average = 7ms

PC>
```

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=2ms TTL=125
Reply from 10.0.0.3: bytes=32 time=2ms TTL=125
Reply from 10.0.0.3: bytes=32 time=15ms TTL=125
Reply from 10.0.0.3: bytes=32 time=21ms TTL=125

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 21ms, Average = 10ms

PC>
```

Fig 3.2 Lab-4 To demonstrate config of default and static routes through a connection of router



To demonstrate conf of default & static routes through a connected of router

Steps for configration -

* click on first Pc and put ip address and gateway as 10.0.0.2, 10.0.0.1 and subnet masks 255.0.0.0
* click on first router and assign IPaddress for fa0/0 - 10.0.0.1 & second s/0 - 20.0.0.0.1
* click on 2nd router and IP address will be - se2/0 - 20.0.0.2 and se3/0 - 30.0.0.1
* click on 3rd router and IP address will be - se2/0 - 30.0.0.2 and fa0/0 will be 40.0.0.1
* similar to PC1 and where IP address should be 40.0.0.2 & gateway will be - 40.0.0.1

click on R0 - In command line. →

cofig # ip route 0.0.0.0 0.0.0.0 20.0.0.2

similar R1 - ip router 40.0.0.0 255.0.0.0 30.0.0.2
ip route 10.0.0.0 255.0.0.0 20.0.0.1

similar to R2 - IP route 0.0.0.0 0.0.0.0 30.0.0.1

Observation

Ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of Data →

Reply from 40.0.0.2 bytes = 32 time = 10MS TTL = 125
Reply from 40.0.0.2 bytes 32 time = 4MS TTL = ns
Reply from 40.0.0.2 bytes 32 time = 2MS TTL = 125
Reply from 40.0.0.2 bytes 32 time = 17MS TTL = 125

Ping statics for 40.0.0.2:

Packet : sent = 4, Recived = 4, lost = 0.

Approximate round trip times in Milli Seconds

Minimum = 2MS Maximum = 17MS Avg = 10MS

22/10/2