## LAB WEEK 3

To demonstrate configuration of default and static routes through a connection of routers.

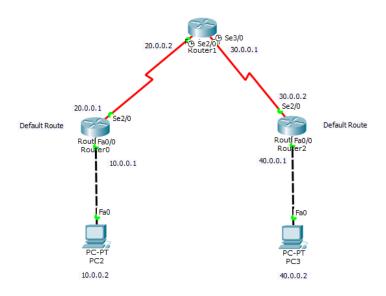


Figure 1: Topology

```
Command Prompt

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=2lms TTL=123
Reply from 40.0.0.2: bytes=32 time=16ms TTL=123
Reply from 40.0.0.2: bytes=32 time=9ms TTL=123
Reply from 40.0.0.2: bytes=32 time=9ms TTL=123

Ping statistics for 40.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 9ms, Maximum = 2lms, Average = 13ms
```

Figure 2: ping command output

22/10/24 To demonstrate configuration of default & static routes through a connection of nouters. \* Topology ! Se 2/0 \$ 30:00 30.0.0.10 Routeri 40.0.01 \* Configuration Steps: Step 1: Select 2 Pc's "Greneric PC-PT" from the end devices and 3 Greneric Router-Pt from Routers. Step 2: Connect the Pes and the nouters to each other using "Automatically chosen-cable". Step 3: Step Set the IP addresses "10.0.02" and "40.00.2" to the PCs respectively, default gateway: 10.0.0.1 and 40.0.0.1 Step 4. Go to the routers and select CLI enter the commands. Router o: (config)# ip route 0.0.0.0 0.0.0.0 20.0.0.2 Router 2: (config) # ip route 0.0.0.0 0.0.0.0 30.0.0.1 Router 1: (config) # ip route 40.0.0.0 255.0.0.0 30.0.0.2 (onfig) # ip mute 10.0.0.0 255-0.0.0 20.0.0.1 Step 5: Check the connection through ping command from and prompt.

of 10.0.0.2 PC when pinged command to \* Observation: The and prompt 40.0.0.2 PC. PC> ping 40.0.0.2 Pinging 40.0.0.2 with 32 bytes of datas Reply from 40.0.0.2: bytes=32 time=2ms TTL=125 Ping statistics for 40.0.02: Packets: sent = 4 Received = 4, Lost = 0 (@1/10ss) Approximate round trip times in milliseconds Minimum = 2ms, Maximum = ams, Avorage = 4ms