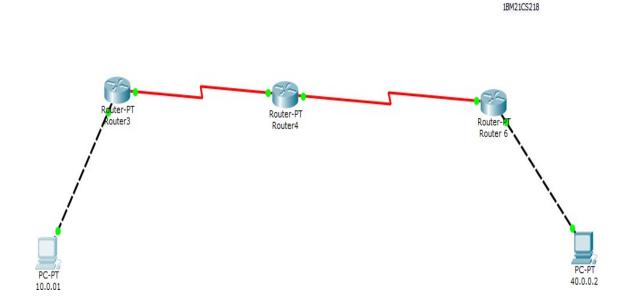
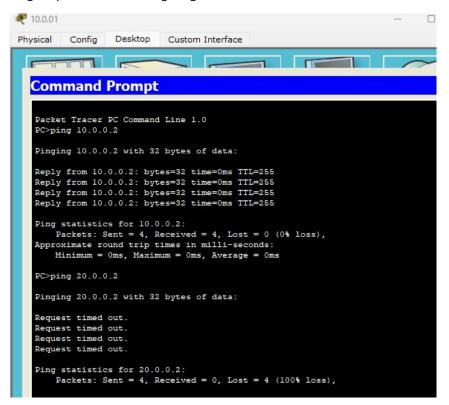
## CN-LAB 03

TOPOLOGY:



Ping Response before configuring router route:



```
₹ 10.0.01
Physical
                   Desktop
          Confia
                            Custom Interface
   Command Prompt
   Ping statistics for 30.0.0.2:
        Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   PC>ping 40.0.0.2
   Pinging 40.0.0.2 with 32 bytes of data:
   Request timed out.
   Request timed out.
   Request timed out.
   Ping statistics for 40.0.0.2:
        Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   PC>ping 20.0.0.1
   Pinging 20.0.0.1 with 32 bytes of data:
   Request timed out.
   Request timed out.
Request timed out.
   Request timed out.
   Ping statistics for 20.0.0.1:
        Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

## **Router Route:**

```
Router3
                                                                                                                       - □ ×
Physical Config CLI
                                           IOS Command Line Interface
          10.0.0.0/8 is directly connected, FastEthernet0/0
          20.0.0.0/8 is directly connected, Serial2/0
          30.0.0.0/8 [1/0] via 20.0.0.2
  Router#configure terminal
 Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ip route 40.0.0.0 255.0.0.0 20.0.0.2
  Router (config) #exit
  Router#
  %SYS-5-CONFIG I: Configured from console by console
  Router#show ip route
 Router#show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

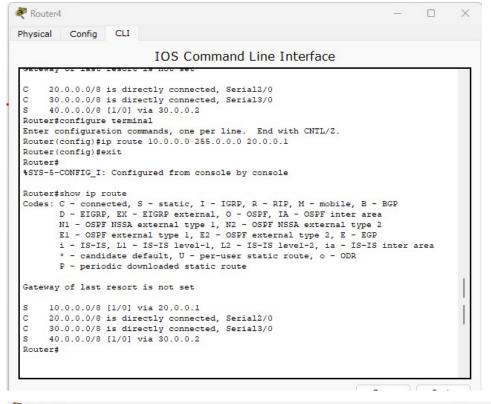
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

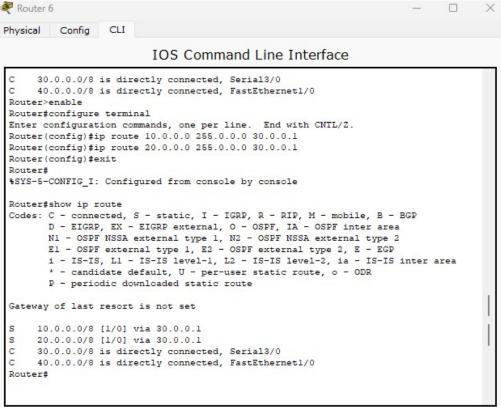
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

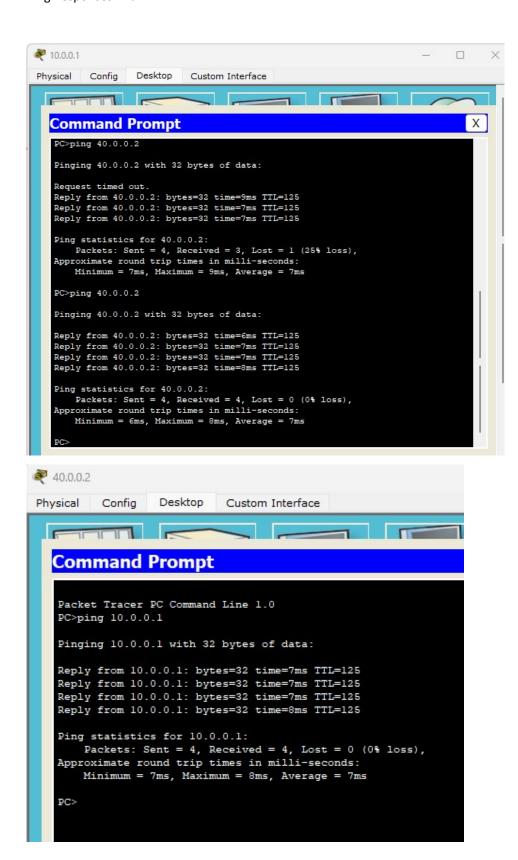
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

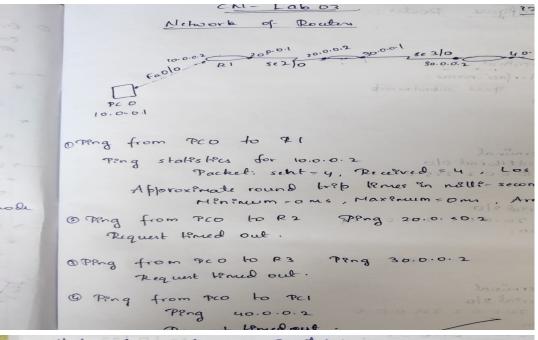
* - candidate default, U - per-user static route, o - ODR
             P - periodic downloaded static route
  Gateway of last resort is not set
          10.0.0.0/8 is directly connected, FastEthernet0/0
         20.0.0.0/8 is directly connected, Serial2/0
30.0.0.0/8 [1/0] via 20.0.0.2
40.0.0.0/8 [1/0] via 20.0.0.2
 Router#
```





Ping Responses final:





```
Steps to configure
                        Pouter: -
 1 Press no
@ Press enable
 3 enter
@ Configure terminal.
6 interface interface-name.
@ ip address spadd subnetmask
 1 no shut down.
1 ex9t.
 Router 1:
 -> no abole
 -> configure terminal
-> Enterface Fast Ethernet 010
 -> Enterface Fait thernet 010

-> Ep addren- 10.0.0.2 255.0.0.0

-> no shut down
 -> e x 8t
 -> Penterface Serral 2/0
 -196 address 20.0.0.1 255.0.0.0$
 -) no sheet down.
 -rexit.
                      0 to 63 . $100 30.00.0
Router 2:-
-> no
-> enable
-> confégure terrienal
-> Interface Serval 210
-> % address 20.0.0.2 255.0.0.0
 no shut down
```

```
Sinterface sepserial 360
 > ?p address go. 0.0.2255.0.0.0
 -) exit
> Poterface FastEthernet 1/0
> 26 address 40.0.0.3 255.0.0.0
Click on Route RI, then type (static op route)
-> 96 route networkaddress subnetmask nextenter for
 * For congifuring we should go to configure
For Router 1
 > inable configure terninal
  -> Router (config) # 8p roule 30.0.0.0 255.0.0
     Router (config)# ip route 40.0.0.0 255.00
     Router (config)# exit
->> Router# show & route
            $0.0.0.018 % directly connected, &co
             20.0.0.0/8 is derectly connected.
           30.0.0.018 connected
                                      via
             40.0.0.018 connected vial
         2 (after giving manual connection)
```

For Router 3:
After configuration.

Router(config) # % route 10.0.0.0 255.0.0.0 26

Router(config) # % route 20.0.0.0 255.0.0.0 2

Router(config) # who route .

Router (config) # exit.

Router (config) # voute.

S 10.0.0/8 (1/0) via 30.0.0.1

S 20.0.0.0/8 [1/0] via 30.0.0.1

C 30.0.0./8 & directly connected, Service C 40.0.0.0/8 & directly connected, Fast

Grom PCO