#### Observation Book:

Observation book.	
Lab # 4	wast to
Ours Configure defait route, states,	rocci ar
Aim: Configure 2 DCs with 3 Routers.  default route & stake route, the us to ping the other & C	to create analotry
us to ping the other &C	
Topology: 50.210 30.0.0.1	and the
20.0.2	2/0
50710 20.0.01	30.0.0.2 0.0.1 fays
1000	ocher 2
Company of the second	14- 3
The same of the sa	i and
Faol	F)
10-0-0-10	PC 1
PC 0	ocil lis w
Routers!  Router o: IP Address: 20-0-0-1	with the second
se 2/0 with Rower 1	2 3
Router 1: 10 Address: 20.0.0.2  Se 210 with Router o	11 31 3
se 3/0 with Router 1	The same
Routes 2: IP Address: 30.0.0.2  Se 2/0 with pouter 1  Fa 0/0 with Pc_1	C

# End-dewices

PC 0: 19 Address: 10.0.0.100 Craterray: 10.0.0.1 Fal: Routero

PC1: 1P Addres: 40-0:0-10
Cratery: 40-0:0-10
Fa0: Rower2

## Procedure,

- 1. Select 2 pcs and 3 Routers and connect them using appropriate wires.
- 8. configure the DC9 with respective IP Addresses and Crateways.
- 3. configure the nouters noting CLI resulting in all cep lights to turn green.
- A obtain iproute from the peo to the roller of and roller 1. likewise with PCI to roller 2 and roller 1.
- 5. Obtain default routes for Router o and Pouter 2.
- 6. ping pet from Peo and Peo from pet.

## Observation:

- · All connections ( fast etnemet and serial) have tured green.
- . IP noute before set up:
  20.0.0.018 is directly connected, serial 310
  30.0.0.018 is directly connected, serial 310
- . If noute after set up:

  10.0.0.018 C1/0] win 20.0.0.1

  20.0.0.018 rs directly connected, Senal 40

  30.0.0.0.018 is directly connected, Senal 310

  40.0.0.018 E1/03 win 800.0.2

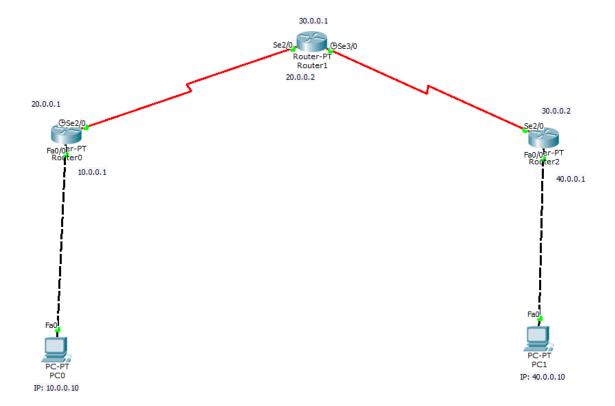
- · prog from one PC to another is succeful . So the middle souter (souter 1) is set up with 2
  - next-hops
- a pefacet rache: to transfer when no other rache 15 available (in trus case 10 and 20)
- . State rolte: défined route muter assigned destination
- · IP route for Rowleso (after sex up):

10-0-0.0/8 is directly connected, fastftnement of 10 a 0-0.0.0/8 is directly connected, senal 2/0 COOL 0-0-0-0/0 [110] wa 20-0-0-2

. It voute for louter 2 cafter set up):

30.0.0.018 is directly connected, Senal 210 \$0.0.0.018 is directly connected, Fastetheret 010 /0.0.0.010 Elloj ura 30.0.0.1

### Typology:



#### **Output Screens:**

```
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

C 20.0.0.0/8 is directly connected, Serial2/0

C 30.0.0.0/8 is directly connected, Serial3/0
```

```
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 [1/0] via 20.0.0.1
     20.0.0.0/8 is directly connected, Serial2/0
     30.0.0.0/8 is directly connected, Serial3/0
С
     40.0.0.0/8 [1/0] via 30.0.0.2
Router#

₱PC0

Physical Config Desktop Custom Interface
 Command Prompt
 Packet Tracer PC Command Line 1.0
 PC>ping 40.0.0.10
 Pinging 40.0.0.10 with 32 bytes of data:
 Request timed out.
 Reply from 40.0.0.10: bytes=32 time=4ms TTL=125
 Reply from 40.0.0.10: bytes=32 time=5ms TTL=125
 Reply from 40.0.0.10: bytes=32 time=7ms TTL=125
 Ping statistics for 40.0.0.10:
     Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
 Approximate round trip times in milli-seconds:
     Minimum = 4ms, Maximum = 7ms, Average = 5ms
  PC>
PC1
Physical
         Config Desktop Custom Interface
 Command Prompt
 Packet Tracer PC Command Line 1.0
 PC>ping 10.0.0.10
 Pinging 10.0.0.10 with 32 bytes of data:
 Reply from 10.0.0.10: bytes=32 time=6ms TTL=125
 Reply from 10.0.0.10: bytes=32 time=6ms TTL=125
 Reply from 10.0.0.10: bytes=32 time=7ms TTL=125
 Reply from 10.0.0.10: bytes=32 time=8ms TTL=125
  Ping statistics for 10.0.0.10:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 Approximate round trip times in milli-seconds:
      Minimum = 6ms, Maximum = 8ms, Average = 6ms
  PC>
```