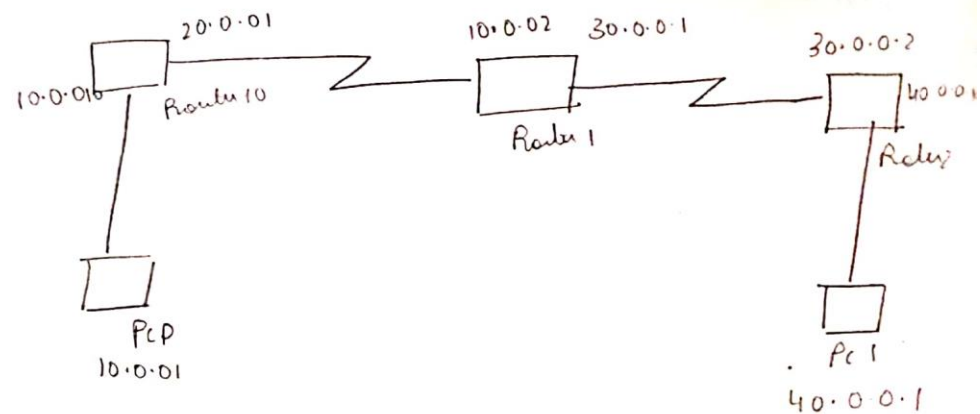


Experiment - 4 .VAISHNAV'S
1BM18CS121Question : Configure static IP Setting.Aim : Static IP Setting.

Topology :

Procedure :

- 1) Connect the PCs & routers as shown above.
- 2) Set IP & default gateways for both PC
- 3) Configure Router 0 & router 2 static IPs;
& for Router 1 set IP router.
- 4) Ping one PC from other to check connection

Vaishnav's

CLI commands.

~~enable~~

- 1) enable.
- 2) config
- 3) interface Serial 0/0.
- 4) ip address 10.0.0.10 255.0.0.0
- 5) ip route 0.0.0.0 0.0.0.0 20.0.0.2
- 6) show ip route.
- 7) no shut.

Observation:

- 1) The Packet from sender to receiver is passed through Route in between.
- 2) Even though the dist set the route specifically. The default route allocated for sending data.

Vaishav's

SCREEN SHOTS:

```
Router>enable
Router#conf t
      ^
% Invalid input detected at '^' marker.

Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 0.0.0.0 0.0.0.0 20.0.0.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

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 20.0.0.2 to network 0.0.0.0

C    10.0.0.0/8 is directly connected, FastEthernet0/0
C    20.0.0.0/8 is directly connected, Serial2/0
S*   0.0.0.0/0 [1/0] via 20.0.0.2

Router#
```

Ctrl+F6 to exit CLI focus

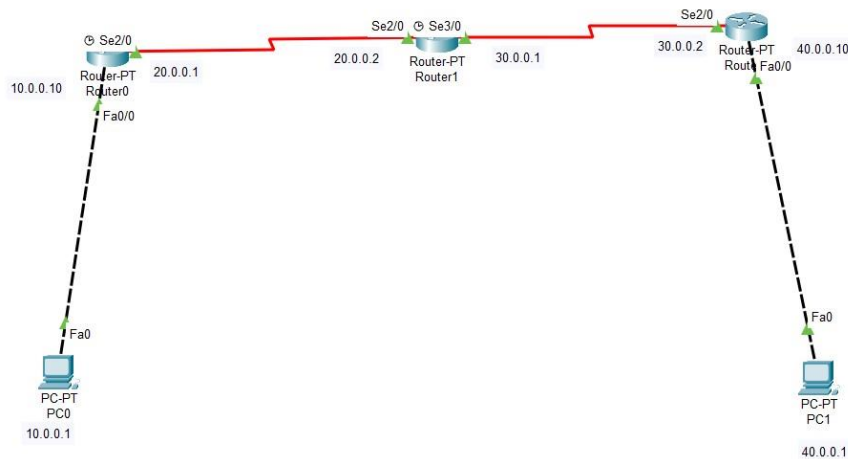
```
Router(config-if)#
Router(config-if)#ip route 0.0.0.0 0.0.0.0 30.0.0.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF 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 30.0.0.1 to network 0.0.0.0

C    30.0.0.0/8 is directly connected, Serial2/0
C    40.0.0.0/8 is directly connected, FastEthernet0/0
S*   0.0.0.0/0 [1/0] via 30.0.0.1

Router#
```

TOPOLOGY:



```

Router(config-if)#
Router(config-if)#ip route 0.0.0.0 0.0.0.0 30.0.0.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
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

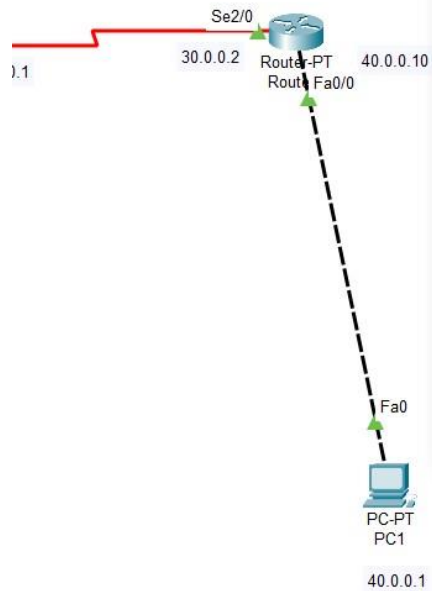
Gateway of last resort is 30.0.0.1 to network 0.0.0.0

C    30.0.0.0/8 is directly connected, Serial2/0
C    40.0.0.0/8 is directly connected, FastEthernet0/0
S*   0.0.0.0/0 [1/0] via 30.0.0.1

Router#

```

RESULT:



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Request timed out.  
Request timed out.  
Request timed out.  
Request timed out.  
  
Ping statistics for 40.0.0.1:  
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),  
  
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=2ms TTL=125  
Reply from 40.0.0.1: bytes=32 time=9ms TTL=125  
Reply from 40.0.0.1: bytes=32 time=15ms TTL=125  
  
Ping statistics for 40.0.0.1:  
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
    Minimum = 2ms, Maximum = 15ms, Average = 8ms  
  
C:\>
```

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