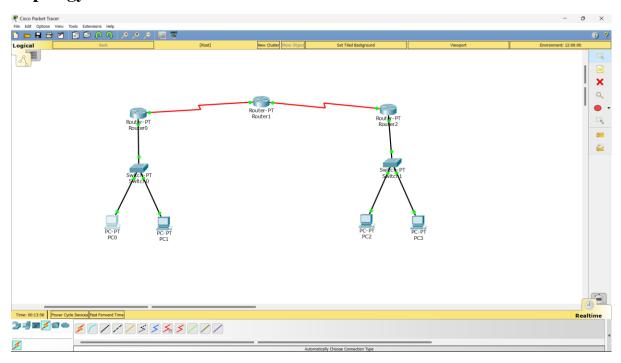
### LAB 4

## Aim of the program

Configuring default route to the Router

## **Topology**



## **Procedure**

```
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 10.0.0.0/8 is directly connected, FastEthernet0/0

C 20.0.0.0/8 is directly connected, Serial2/0

Router#config terminal
Enter configuration commands, one per line. End with CNTL/2.

Router(config)#proute 0.0.0.0.0.0.0.0.0.0.2

Router(config)#proute 0.0.0.0.0.0.0.0.0.0.0.2

Router#show ip route

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

D - EIGRP, EX - EIGRP external, O - OSPF, ISA - 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
```

Default Routing Rouler-PT Router 2 ROWERPT 30.00.1 Router O 20.0.0.1 300.02 10.0.0.2 Router-P, Fa 0/0 Fa do \$ 40.002 10.0.0.1 40.0.0.1

Router O configuration

Router > erable Router # config forminal Pouks (config)# interface fast Ethernet 0/0 Routerlooply-184 Haddron 100-02 255.0.00 # no shutchown # exit

Router (config) # interface social 2/0 Router (config-16) #18 address 200.0.1 255.0.0.0 Router config -if) # no stutdown Router Cooping-if) # exit Router Config ) # exit Router # show ip route Router # config terminal Rauter Clarkings # ip route 0.0.0.0 0.0.0.0 20.0.0.2 Router Config # exit

# Router 1 configuration; Router > enable Router # config terminal Router (config) # interface serial 2/0 Router (config-if) # 1P address 30.0.0.2 255.0.0.0 Router (config-if) # no shutdown Router (config-if) # exit Router (config-if) # exit Router (config-if) # 1P address 40.0.0.2 255.0.0.0 Router (config-if) # no shutdown Router (config-if) # no shutdown Router (config-if) # no shutdown Router (config-if) # exit Router (config-if) # exit Router (config-if) # exit Router (config-if) # exit Router (config) # exit Router # show IP route Router # config kinimal Router (Config) # ip route 0.0.0.0 0.0.0.0 30.0.0.1

# Mouter-2 configuration.

Router (config) # exit

Router > crable

Router # config terminal

Router (config) # interface round 2/0

Router (config) # IP address 200.0.2 255.0.0.0

Parter (config) # interface sexual 3/0

Router (config) # interface sexual 3/0

Router (config-1) # IP address 30.0.0.1 255.0.0.0

Buter (config-1) # P address 30.0.0.1 255.0.0.0

Router (config-1) # exit

Router (config) # exit

Router # show ip route

Router # config terminal

Router (config) # ip route 10.0.0.0 255.0.0.0 20.0.0.1

Router (config) # ip route 40.0.0.0 255.0.0.0 30.0.0.2

Router (config) # exit

## command prompt

C:>> ping 10.0.0.1

Ringing 10.0.0.1 with 32 bytes of data:

Roply from 10.0.0.1: bytes = 32 time = 15ms TTL = 125

Roply from 10.0.0.1: bytes = 32 time = 4ms TTL = 125

Roply from 10.0.0.1: bytes = 32 time = 11ms TTL = 125

Roply from 10.0.0.1: bytes = 32 time = 6ms. TTL = 125

Roply from 10.0.0.1: bytes = 32

Pang statistics for 10.0.0.1:

Packets: sent = 4, Recieved = 4, Lest = 0 (0). (est)

Approximate round trip times in milli-seconds:

Minimum = 4005, Maximum = 15ms, Average = 9ms

minimum = 4005, Maximum = 15ms, Average = 9ms

## **Output**

```
Packet Tracer PC Command Line 1.0
C:\>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

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:

Reply from 10.0.0.10: Destination host unreachable.
Ping statistics for 40.0.0: Destination host unreachable.

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=10ms TTL=125
Reply from 40.0.0.1: bytes=32 time=10ms TTL=125
Reply from 40.0.0.1: bytes=32 time=10ms 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 = 10ms, Maximum = 10ms, Average = 10ms

C:\>
```