LAB-5

Default Routing

Topology


```
                        Router-PT
                        Router2
                          ⊗  30.0.0.1
        Se2/0                          30.0.0.2
                   Se3/0
      ⊗ 20.0.0.1                    Se
                                     2/0  ⊗
        Router-PT         Router-PT
        Router0           Router1     Fa0/0  40.0.0.2
      P
      10.0.0.2
      Fa0/0

        LAPTOP-PT
        LAPTOP0
        10.0.0.1
                                        LAPTOP-PT
                                        LAPTOP
                                        40.0.0.1
```
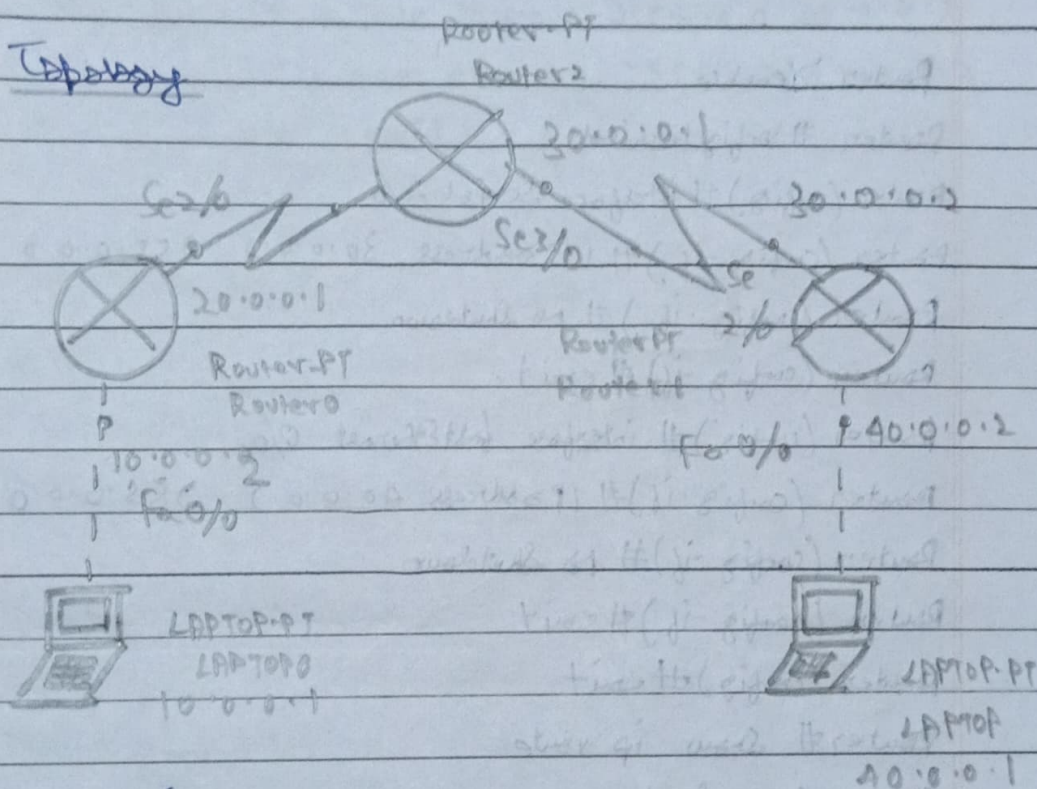
Router 0 Configuration

Router >enable

Router # Config terminal

Router (config) # interface fast Ethernet 0/0

Router (config -if) # IP address 10.0.0.2 255.0.0.0

Router (config -if) # no shutdown

Router (config -if) #exit

Router (config) # interface Serial 2/0

Router (config -if) # IP address 20.0.0.1 255.0.0.0

Router (config -if) # no shutdown

Router (config -if) #exit

Router # show ip route

Router # config terminal

Router (config) # 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)# IP address 30.0.0.2 255.0.0.0
Router (config-if)# no shutdown
Router (config-if)# exit.
Router (config)# interface fastEthernet 0/0
Router (config-if)# IP address 40.0.0.1 255.0.0.0
Router (config-if)# no Shutdown
Router (config-if)# exit
Router (config)# exit
Router # show ip route
Router # config terminal
Router (config)# ip route 0.0.0.0 0.0.0.0 30.0.0.1
Router (config)# exit

Router 2 configuration

Router >enable
Router # config terminal
Router (config)# interface serial 2/0
Router (config-if)# IP address 20.0.0.2 255.0.0.0
Router (config-if)# no shutdown
Router (config-if)# exit
Router (config)# interface serial 3/0
Router (config-if)# IP address 30.0.0.1 255.0.0
Router (config-if)# no shutdown

Router (config -if) #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
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C: \ > ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1 : bytes = 32 time = 15ms TTL = 125
Reply from 10.0.0.1 : bytes = 32 time = 4ms   TTL = 125
Reply from 10.0.0.1 : bytes = 32 time = 11ms TTL = 125
Reply from 10.0.0.1 : bytes = 32 time = 6ms   TTL = 125

Ping Statistics for 10.0.0.1 :
     Packets Sent = 4, Received = 4, lost = 0 (0% loss)
Approximate round trip times in milli - seconds :
     Minimum = 4ms, Maximum = 15ms, Average = 9ms.