
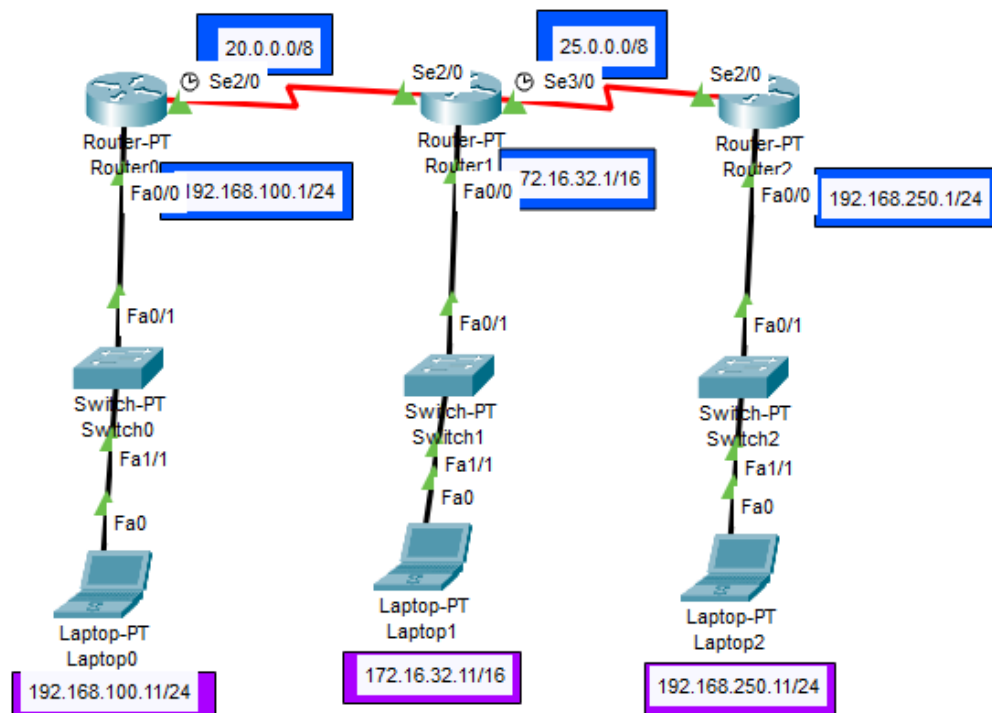


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## LAB ACTIVITY #1 : CONFIGURING STATIC AND DYNAMIC ROUTING RIPV2

- I. **DIRECTION:** Using CISCO Packet Tracer configure the given logical layout.  
Provide the configuration for each:
  - A. Configure the interfaces using the given address table.
  - B. Build Routing Table for each router using STATIC ROUTING
  - C. Build Routing Table for each router using DYNAMIC ROUTING RIPV2
- II. **LOGICAL LAYOUT**



### III. IP ADDRESS TABLE

Interface	IP Address	Subnet Mask
Router0		
Fa 0/0	192.168.100.1	255.255.255.0
Serial 2/0	20.0.0.1	255.0.0.0
Router1		
Fa 0/0	172.16.32.1	255.255.0.0
Serial 2/0	20.0.0.2	255.0.0.0
Serial 3/0	25.0.0.1	255.0.0.0
Router2		
Fa 0/0	192.168.250.1	255.255.255.0
Serial 2/0	25.0.0.2	255.0.0.0

### IV. CONFIGURATION

A. Configure the interfaces using the given address table.

- Router0
  - Router>enable
  - Router#configure terminal
  - Router(config)#interface fastEthernet 0/0
  - Router(config-if)#ip address 192.168.100.1 255.255.255.0
  - Router(config-if)#no shutdown
  - Router(config-if)#do wr
  - 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)#do wr
- Router1
  - Router#configure terminal
  - Router(config)#interface fastEthernet 0/0
  - Router(config-if)#ip address 172.16.32.1 255.255.0.0
  - Router(config-if)#no shutdown
  - Router(config-if)#do wr
  - Router(config-if)#exit
  - 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)#do wr
  - Router(config-if)#exit
  - Router(config)#interface serial 3/0
  - Router(config-if)#ip address 25.0.0.1 255.0.0.0
  - Router(config-if)#no sh
  - Router(config-if)#do wr

- Router2
  - Router>enable
  - Router#configure terminal
  - Router(config)#interface fastEthernet 0/0
  - Router(config-if)#ip address 192.168.250.1 255.255.255.0
  - Router(config-if)#no shutdown
  - Router(config-if)#do wr
  - Router(config-if)#exit
  - Router(config)#interface serial 2/0
  - Router(config-if)#ip address 25.0.0.2 255.0.0.0
  - Router(config-if)#no shutdown
  - Router(config-if)#do wr

B. Build Routing Table for each router using STATIC ROUTING

- Router0
  - Router(config)#ip route 172.16.0.0 255.255.0.0 20.0.0.2
  - Router(config)#ip route 20.0.0.0 255.0.0.0 20.0.0.2
  - Router(config)#ip route 192.168.250.0 255.255.255.0 20.0.0.2
  - Router(config)#ip route 25.0.0.0 255.0.0.0 20.0.0.2
- Router1
  - Router(config)#ip route 192.168.100.0 255.255.255.0 20.0.0.1
  - Router(config)#ip route 20.0.0.0 255.0.0.0 20.0.0.1
  - Router(config)#ip route 192.168.250.0 255.255.255.0 25.0.0.2
  - Router(config)#ip route 25.0.0.0 255.0.0.0 25.0.0.2
- Router2
  - Router(config)# ip route 192.168.100.0 255.255.255.0 25.0.0.1
  - Router(config)#ip route 20.0.0.0 255.0.0.0 25.0.0.1
  - Router(config)#ip route 25.0.0.0 255.0.0.0 20.0.0.1
  - Router(config)#ip route 172.16.0.0 255.255.0.0 20.0.0.1

C. Build Routing Table for each router using DYNAMIC ROUTING RIPV2

- Router0
  - Router(config)#router rip
  - Router(config-router)#version 2
  - Router(config-router)#network 20.0.0.0
  - Router(config-router)#network 192.168.100.0
- Router1
  - Router(config)#router rip
  - Router(config-router)#version 2
  - Router(config-router)#network 20.0.0.0
  - Router(config-router)#network 172.16.0.0
  - Router(config-router)#network 25.0.0.0
- Router2
  - Router(config)#router rip
  - Router(config-router)#version 2
  - Router(config-router)#network 25.0.0.0
  - Router(config-router)#network 192.168.250.0

