CSE 322: Computer Networks

Packet Tracer Online

Total Marks: 100   Time: 40 min
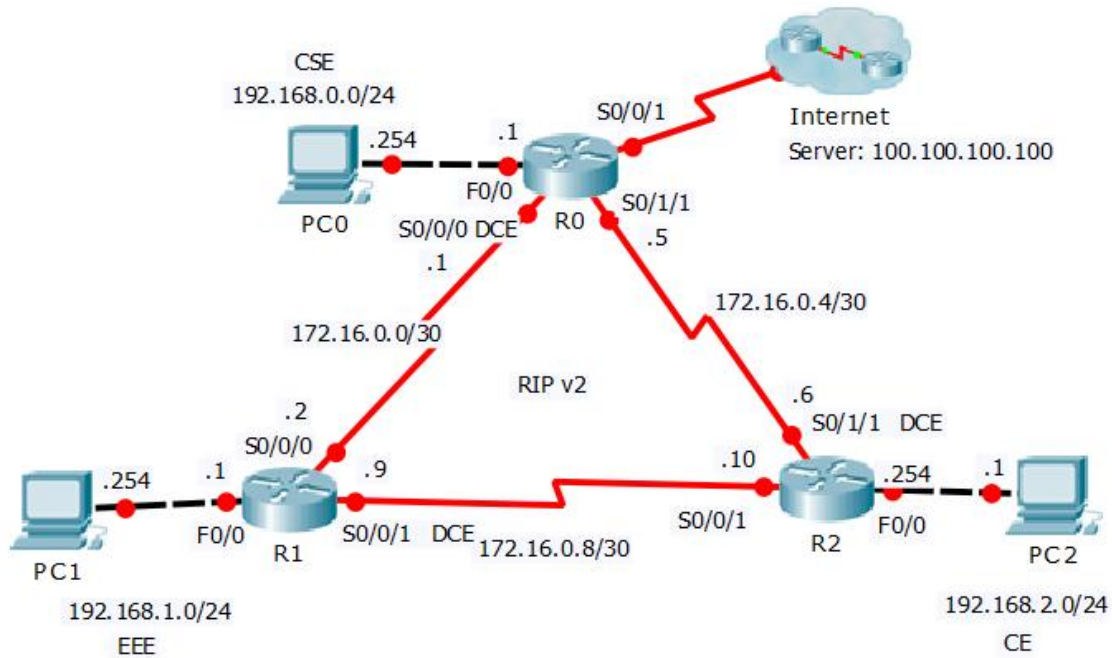Name: Student ID:

Fig. Given network topology

Configuration [70]:
  a) Configuring the End-devices:
      1. Configure PC0, PC1, and PC2 with the IP addresses listed below.

Host	IP addresses	Gateway
PC0	192.168.0.254/24	192.168.0.1
PC1	192.168.1.254/24	192.168.1.1
PC2	192.168.2.254/24	192.168.2.1

  b) Configuring the Routers:
      1. Configure the IP addresses of the interfaces according to the following table:

Device	Interface	IP Address
R0	Fa0/0	192.168.0.1/24
	S0/0/0 (DCE)	172.16.0.1/30
	S0/1/1	172.16.0.5/30
	S0/0/1	11.11.11.9/30
R1	Fa0/0	192.168.1.1/30
	S0/0/0	172.16.0.2/30
	S0/0/1 (DCE)	172.16.0.9/30
R2	Fa0/0	192.168.2.1/30
	S0/0/1	172.16.0.10/30
	S0/1/1 (DCE)	172.16.0.6/30

2. Configure the clock rate as "64000" for the DCE of each serial connection between the routers
3. Configure **rip protocol** with version 2 in each router. Add the network into the rip protocol using the following command:

Verification [30]:

1	Ping PC0 to PC1	10
2	Ping PC0 to PC2	5
3	Ping PC1 to PC2	5
4	Ping PC1 to 100.100.100.100	5
5	Show routing table in router R1	5