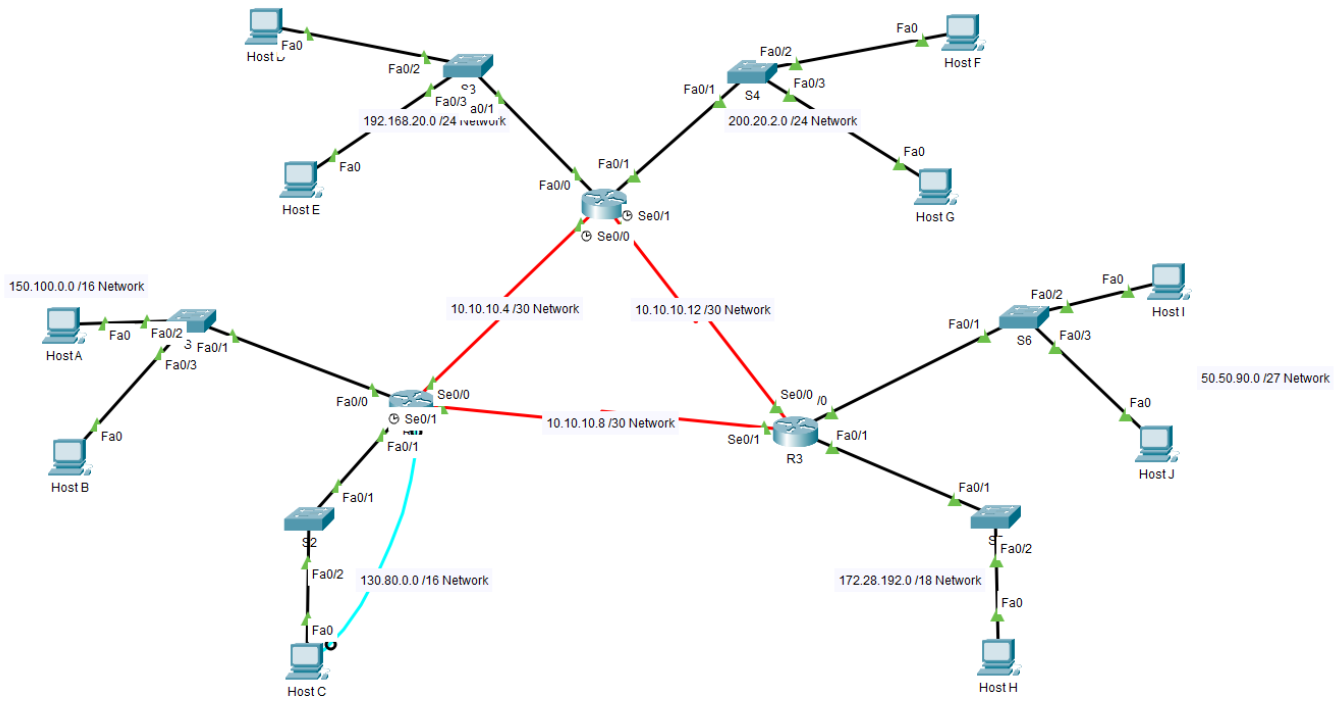
CAMACHO, ONE MARCO D.

ROUTING PROTOCOL: RIP
NETWORK TOPOLOGY



IP ADDRESS ASSIGNMENT

End Devices

Host Name	IP Address	Subnet Mask	Gateway
Host A	150.100.255.254	255.255.0.0	150.100.0.1
Host B	150.100.255.253	255.255.0.0	150.100.0.1
Host C	130.80.255.254	255.255.0.0	130.80.0.1
Host D	192.168.20.254	255.255.255.0	192.168.20.1
Host E	192.168.20.253	255.255.255.0	192.168.20.1
Host F	200.20.2.254	255.255.255.0	200.20.2.1
Host G	200.20.2.253	255.255.255.0	200.20.2.1
Host H	172.28.255.254	255.255.192.0	172.28.192.1
Host I	50.50.90.30	255.255.255.224	50.50.90.1
Host J	50.50.90.29	255.255.255.224	50.50.90.1

Router Interfaces

Router R1

Interface	IP Address	Subnet Mask
Fa0/0	150.100.0.1	255.255.0.0
Fa0/1	130.80.0.1	255.255.0.0
Se0/0	10.10.10.6	255.255.255.252
Se0/1	10.10.10.9	255.255.255.252

Router R2

Interface	IP Address	Subnet Mask
Fa0/0	192.168.20.1	255.255.255.0
Fa0/1	200.20.2.1	255.255.255.0
Se0/0	10.10.10.5	255.255.255.252
Se0/1	10.10.10.13	255.255.255.252

Router R3

Interface	IP Address	Subnet Mask
Fa0/0	50.50.90.1	255.255.255.224
Fa0/1	172.28.192.1	255.255.192.0
Se0/0	10.10.10.14	255.255.255.252
Se0/1	10.10.10.10	255.255.255.252

ROUTER CONFIGURATION

Router R1

```
R1> en
R1# conf t
R1(config)# int fa0/0
R1(config-if)# ip address 150.100.0.1 255.255.0.0
R1(config-if)# no shut
R1(config-if)# exit
R1(config)# int fa0/1
R1(config-if)# ip address 130.80.0.1 255.255.0.0
R1(config-if)# no shut
R1(config-if)# exit
R1(config)# int se0/0
R1(config-if)# ip address 10.10.10.6 255.255.255.252
R1(config-if)# no shut
R1(config-if)# exit
R1(config)# int se0/1
R1(config-if)# ip address 10.10.10.9 255.255.255.252
R1(config-if)# no shut
R1(config-if)# exit

R1(config)# router rip
R1(config-router)# version 2
R1(config-router)# network 10.10.10.0
R1(config-router)# network 130.80.0.0
R1(config-router)# network 150.100.0.0
R1(config-router)# no auto-summary
R1(config-router)# exit

R1(config)# ip route 192.168.20.0 255.255.255.0 10.10.10.5
R1(config)# ip route 200.20.2.0 255.255.255.0 10.10.10.5
R1(config)# ip route 172.28.192.0 255.255.192.0 10.10.10.10
```

```
R1(config)# ip route 50.50.90.0 255.255.255.224 10.10.10.10
```

Router R2

```
R2> en
R2# conf t
R2(config)# int fa0/0
R2(config-if)# ip address 192.168.20.1 255.255.255.0
R2(config-if)# no shut
R2(config-if)# exit
R2(config)# int fa0/1
R2(config-if)# ip address 200.20.2.1 255.255.255.0
R2(config-if)# no shut
R2(config-if)# exit
R2(config)# int se0/0
R2(config-if)# ip address 10.10.10.5 255.255.255.252
R2(config-if)# no shut
R2(config-if)# exit
R2(config)# int se0/1
R2(config-if)# ip address 10.10.10.13 255.255.255.252
R2(config-if)# no shut
R2(config-if)# exit

R2(config)# router rip
R2(config-router)# version 2
R2(config-router)# network 10.10.10.0
R2(config-router)# network 192.168.20.0
R2(config-router)# network 200.20.2.0
R2(config-router)# no auto-summary
R2(config-router)# exit

R2(config)# ip route 150.100.0.0 255.255.0.0 10.10.10.6
R2(config)# ip route 130.80.0.0 255.255.0.0 10.10.10.6
R2(config)# ip route 172.28.192.0 255.255.192.0 10.10.10.14
R2(config)# ip route 50.50.90.0 255.255.255.224 10.10.10.14
```

Router R3

```
R3> en
R3# conf t
R3(config)# int fa0/0
R3(config-if)# ip address 50.50.90.1 255.255.255.224
R3(config-if)# no shut
R3(config-if)# exit
R3(config)# int fa0/1
R3(config-if)# ip address 172.28.192.1 255.255.192.0
R3(config-if)# no shut
R3(config-if)# exit
R3(config)# int se0/0
R3(config-if)# ip address 10.10.10.14 255.255.255.252
R3(config-if)# no shut
```

```
R3(config-if)# exit
R3(config)# int se0/1
R3(config-if)# ip address 10.10.10.10 255.255.255.252
R3(config-if)# no shut
R3(config-if)# exit

R3(config)# router rip
R3(config-router)# version 2
R3(config-router)# network 10.10.10.0
R3(config-router)# network 50.0.0.0
R3(config-router)# network 172.28.0.0
R3(config-router)# no auto-summary
R3(config-router)# exit

R3(config)# ip route 150.100.0.0 255.255.0.0 10.10.10.9
R3(config)# ip route 130.80.0.0 255.255.0.0 10.10.10.9
R3(config)# ip route 192.168.20.0 255.255.255.0 10.10.10.13
R3(config)# ip route 200.20.2.0 255.255.255.0 10.10.10.13
```

CONNECTIVITY TEST WINDOW

PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)
	Successful	Host A	Host B	ICMP		0.000
	Successful	Host B	Host C	ICMP		0.000
	Successful	Host D	Host E	ICMP		0.000
	Successful	Host E	Host F	ICMP		0.000
	Successful	Host D	Host G	ICMP		0.000
	Successful	Host F	Host A	ICMP		0.000
	Successful	Host G	Host C	ICMP		0.000
	Successful	Host D	Host B	ICMP		0.000
	Successful	Host E	Host C	ICMP		0.000
	Successful	Host I	Host J	ICMP		0.000
	Successful	Host J	Host H	ICMP		0.000
	Successful	Host I	Host H	ICMP		0.000
	Successful	Host H	Host F	ICMP		0.000
	Successful	Host H	Host E	ICMP		0.000
	Successful	Host H	Host A	ICMP		0.000
	Successful	Host H	Host C	ICMP		0.000
	Successful	Host I	Host G	ICMP		0.000
	Successful	Host I	Host D	ICMP		0.000
	Successful	Host I	Host A	ICMP		0.000
	Successful	Host I	Host C	ICMP		0.000
	Successful	Host J	Host G	ICMP		0.000
	Successful	Host J	Host E	ICMP		0.000
	Successful	Host J	Host B	ICMP		0.000
	Successful	Host J	Host C	ICMP		0.000