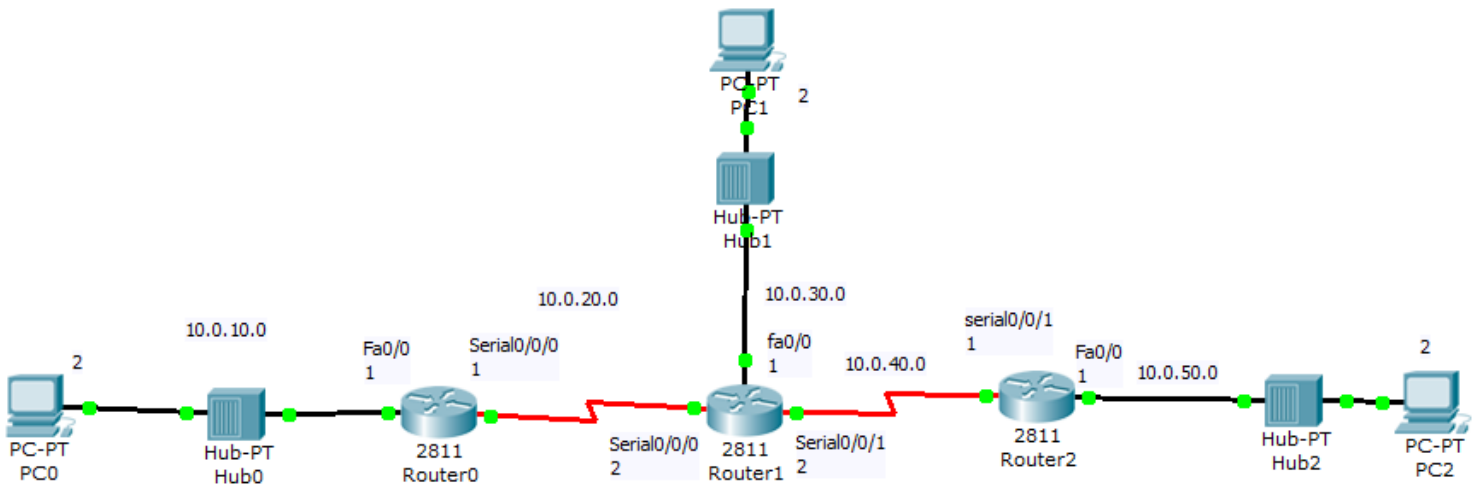


## Wireless Lab 01 Routing Information Protocols

### Equipment

#	Item
4	PCs
4	Hubs
3	Router 2811

### Topology



### Steps

- upgrade routers by adding “WIC-2T”



- Connect devices as shown in topology
- Configure PCs

PC0	
IP	10.0.10.2
Subnet mask	255.255.255.0
Gateway	10.0.10.1

PC1	
IP	10.0.30.2
Subnet mask	255.255.255.0
Gateway	10.0.30.1



<b>PC2</b>	
IP	10.0.50.2
Subnet mask	255.255.255.0
Gateway	10.0.50.1

- Routers Basic Configuration

```
R en
o config t
u interface fa0/0
t ip address 10.0.10.1 255.255.255.0
e no sh
r exit

0 interface serial0/0/0
  ip address 10.0.20.1 255.255.255.0
  no sh
  clock rate 2000000
  exit

  interface loopback 0
  ip address 1.1.1.1 255.255.255.255
  no sh
  end

copy running-config startup-config
```

```
R en
o config t
u interface fa0/0
t ip address 10.0.30.1 255.255.255.0
e no sh
r exit

1 interface serial0/0/0
  ip address 10.0.20.2 255.255.255.0
  no sh
  exit

  interface serial0/0/1
  ip address 10.0.40.2 255.255.255.0
  no sh
  clock rate 2000000
  exit

  interface loopback 0
  ip address 2.2.2.2 255.255.255.255
```



```
no sh
end

copy running-config startup-config
```

```
R en
o config t
u interface fa0/0
t ip address 10.0.50.1 255.255.255.0
e no sh
r exit
2
  interface serial0/0/1
  ip address 10.0.40.1 255.255.255.0
  no sh
  exit

  interface loopback 0
  ip address 3.3.3.3 255.255.255.255
  no sh
  end

copy running-config startup-config
```

- RIP Configuration

```
R en
o config t
u router rip
t network 10.0.10.0
e network 10.0.20.0
r network 1.1.1.1
end
0 copy running-config startup-config
```

```
R en
o config t
u router rip
t network 10.0.20.0
e network 10.0.30.0
r network 10.0.40.0
  network 2.2.2.2
1 end
copy running-config startup-config
```

```
R en
o config t
```



```
u router rip
t network 10.0.40.0
e network 10.0.50.0
r network 3.3.3.3
  end
2 copy running-config startup-config
```

- Show RIP route

```
R
o
u
t
e
r
show ip route rip
```

- Test connectivity

PC 00 command prompt	Ping 10.0.30.2 Ping 10.0.50.2 Ping 2.2.2.2 Ping 3.3.3.3
----------------------------	--

PC 01 command prompt	Ping 10.0.10.2 Ping 10.0.50.2 Ping 1.1.1.1 Ping 3.3.3.3
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PC 02 command prompt	Ping 10.0.10.2 Ping 10.0.30.2 Ping 1.1.1.1 Ping 2.2.2.2
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