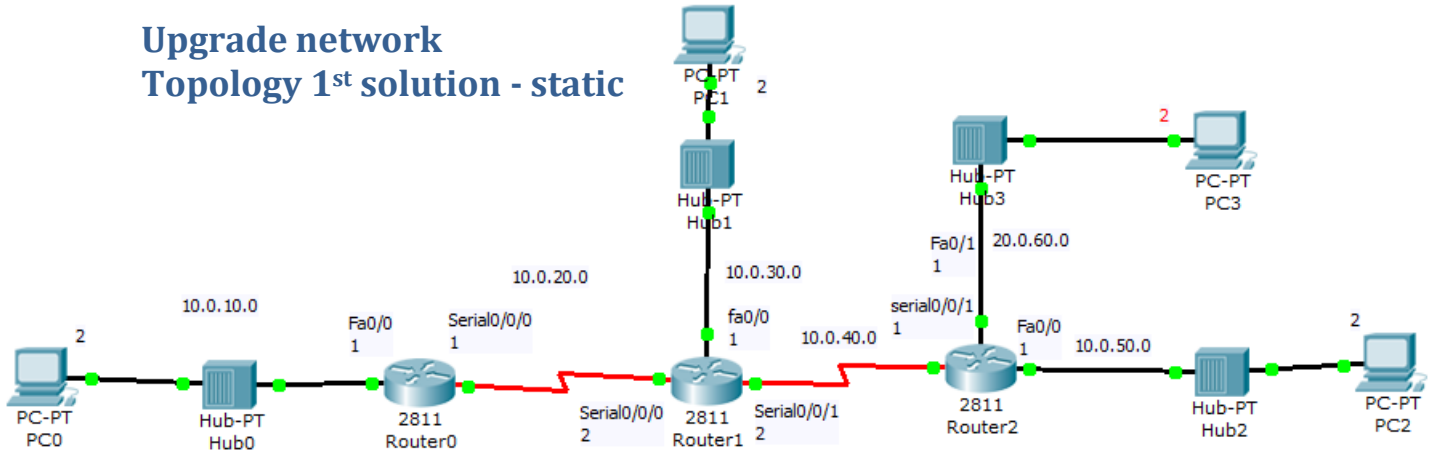


## Wireless Lab 02 Routing Information Protocols - Part II

### Equipment

#	Item
4	PCs
4	Hubs
3	Router 2811

### Upgrade network Topology 1<sup>st</sup> solution - static



PC3	
IP	20.0.60.2
Subnet mask	255.255.255.0
Gateway	20.0.60.1

- Routers Basic Configuration

R	en
o	config t
u	interface fa0/1
t	ip address 20.0.60.1 255.255.255.0
e	no sh
r	end
o	copy running-config startup-config

- Gateway of last resort and static configuration

R	en
o	config t
u	ip route 0.0.0.0 0.0.0.0 serial0/0/0
t	end
e	copy running-config startup-config
r	en
o	config t



```
ip route 0.0.0.0 0.0.0.0 10.0.20.2
end
copy running-config startup-config
```

```
R en
o config t
u ip route 0.0.0.0 0.0.0.0 serial0/0/1
t end
e copy running-config startup-config
```

```
r en
config t
1 ip route 0.0.0.0 0.0.0.0 10.0.40.1
end
copy running-config startup-config
```

```
R en
o config t
u ip route 0.0.0.0 0.0.0.0 Fa0/1
t end
e copy running-config startup-config
```

```
r en
config t
2 ip route 0.0.0.0 0.0.0.0 20.0.60.2
end
copy running-config startup-config
```

- Broadcasting static configuration to other routers through RIP protocol

```
R en
o config t
u route rip
t default-information originate
e end
r copy running-config startup-config
0
```

```
R en
o config t
u route rip
t default-information originate
e end
r copy running-config startup-config
1
```

```
R en
o config t
```



```
u route rip
t default-information originate
e end
r copy running-config startup-config

2
```

- Show RIP route

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

- Test connectivity again

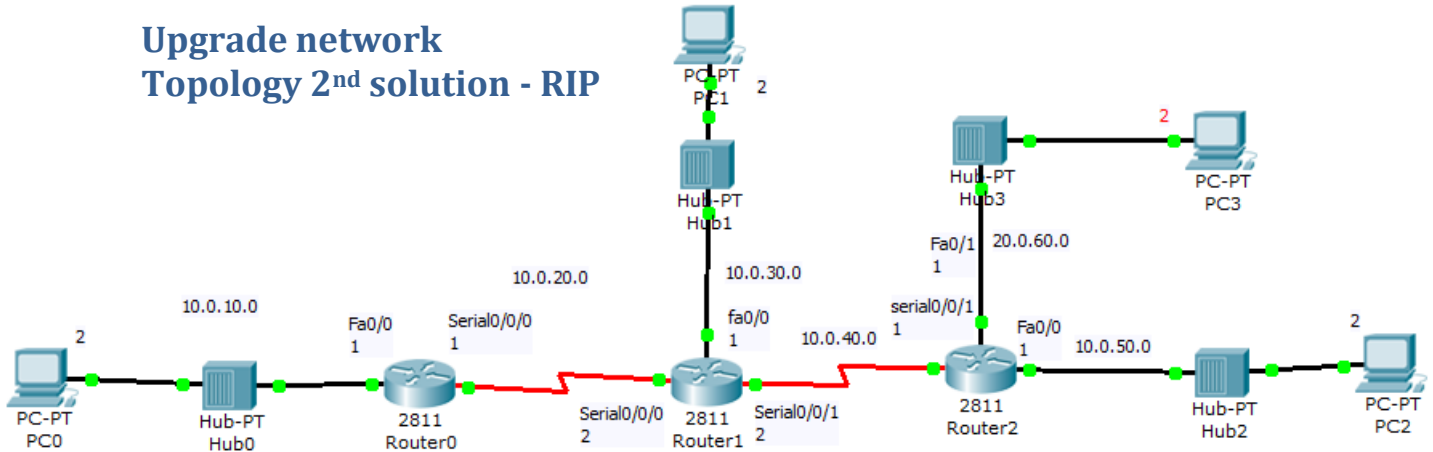
PC 00 command prompt	Ping 20.0.60.2
----------------------------	----------------

PC 01 command prompt	Ping 20.0.60.2
----------------------------	----------------

PC 02 command prompt	Ping 20.0.60.2
----------------------------	----------------

PC 03 command prompt	Ping 10.0.10.2 Ping 10.0.30.2 Ping 10.0.50.2
----------------------------	--

## Upgrade network Topology 2<sup>nd</sup> solution - RIP



### PC3

IP	20.0.60.2
Subnet mask	255.255.255.0
Gateway	20.0.60.1

- Routers Basic Configuration

```

R en
o config t
u interface fa0/1
t ip address 20.0.60.1 255.255.255.0
e no sh
r end
o copy running-config startup-config
  
```

- RIP Configuration

```

R en
o config t
u router rip
t network 20.0.60.0
e end
r copy running-config startup-config
2
  
```

- Show RIP route

```

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



- Test connectivity again

PC 00 command prompt	Ping 20.0.60.2
----------------------------	----------------

PC 01 command prompt	Ping 20.0.60.2
----------------------------	----------------

PC 02 command prompt	Ping 20.0.60.2
----------------------------	----------------

PC 03 command prompt	Ping 10.0.10.2 Ping 10.0.30.2 Ping 10.0.50.2
----------------------------	--