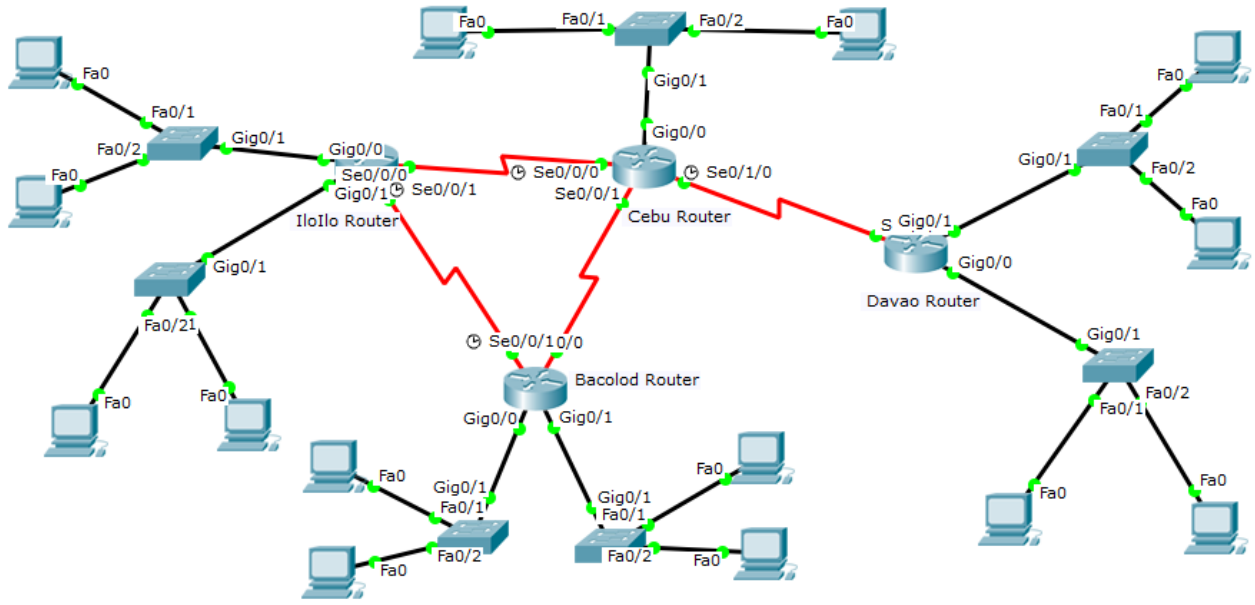
**Final Lab 7.0.0.1 - Implementing Dual Stack in RIPv2 and EIGRP Network**

Topology




Final Lab 7.0.0.1 - Implementing Dual Stack in RIPv2 and EIGRP Network

TopologyIPv6 in RIPv2 Implementation.PNG

Objectives

1. Create the topology in packet tracer
2. Use the table below for addressing, follow the instruction
a. IPv6 Address is given in the table
b. Compute for the IPv4 address using 12.15.192.0/22 network, fill out the columns intended for IPv4 Addresses

| Interfaces | Network Addresses | IPv6 Addresses | IPv6 Addresses Implementation | IPv4 Network Address |
|---|---|---|---|---|
| Cebu Router | GigabitEthernet0/0 | 2001:DB8:ACAD:AAA0 ::/64 | Auto-Config | |
| | Serial0/0/0 | 2001:DB8:ACAD:AAA1 ::/64 | Static | |
| | Serial0/0/1 | 2001:DB8:ACAD:AAA2 ::/64 | Static | |
| | Serial0/1/0 | 2001:DB8:ACAD:AAA3 ::/64 | Static | |
| Iloilo Router | GigabitEthernet0/0 | 2001:DB8:ACAD:AAA4 ::/64 | Auto-Config | |
| | GigabitEthernet0/1 | 2001:DB8:ACAD:AAA5 ::/64 | Auto-Config | |
| | Serial0/0/0 | 2001:DB8:ACAD:AAA7 ::/64 | Static | |
| | Serial0/0/1 | 2001:DB8:ACAD:AAA8 | Static | |

| | | | | |
|---|---|---|---|---|
| | | ::/64 | | |
| Bacolod Router | GigabitEthernet0/0 | 2001:DB8:ACAD:AAA9::/64 | Static | |
| | GigabitEthernet0/1 | 2001:DB8:ACAD:AAAA::/64 | Static | |
| | Serial0/0/0 | 2001:DB8:ACAD:AAAB::/64 | Static | |
| | Serial0/0/1 | 2001:DB8:ACAD:AAAC::/64 | Static | |
| Davao Router | GigabitEthernet0/0 | 2001:DB8:ACAD:AAAD::/64 | Auto-Config | |
| | GigabitEthernet0/1 | 2001:DB8:ACAD:AAAE::/64 | Auto-Config | |
| | Serial0/0/0 | 2001:DB8:ACAD:AAAF::/64 | Static | |

3. Assign Addresses to interfaces and end devices. Label the interfaces and end devices with the IPv4 and IPv6 address used.
4. Configure the IPv6 RIPv2 and EIGRP protocol for communication
5. Apply redistribution to your designated router to enable communication between protocol
6. Verify Connectivity

Rubric:
1. Topology and Labels - 15
2. Addressing - 30
3. IPv6 RIPv2 and EIGRP Implementation - 15
4. Apply Redistribution - 15
5. Verify Connection - 15