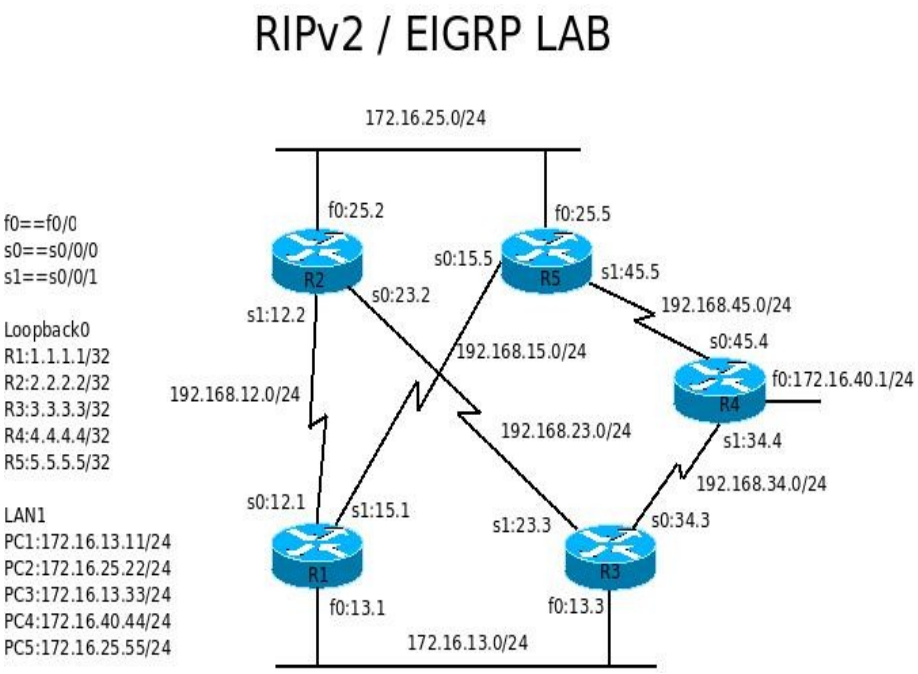
Lab 7 RIPv2 OSPF and EIGRP

Reference commands:

```
no ip domain-lookup
 logg sync
 privi lev 15
 exec-t 0 0
copy run start
 do sh ip int br
 no keep
 net 0.0.0.0 0.0.0.0 a 0
 defaultinformation originate

sh run int s0/1
sh ip route
sh ip ospf nei
sh ip ospf int
sh ip prot
sh prot
sh run | ?
```



1. Connect serial cables as shown in the picture and connect the f0/0 ports with cross-over cables. No connections on R4 fa0/0. use **`no keepalive`** to keep it up.
2. On each router, configure the following:
   * host name as shown and username cisco password cisco with level 15 privilege
   * interface address as shown in the diagram (LAN, WAN and Loopback0)
   * **`clock rate`** and **`no shutdown`** as needed
   * disable auto DNS request
   * no telnet password and directly get into privileged mode
   * console message synchronization
   * console session and telnet session no time out

   On each router, **`sh ip int br`** and **`sh cdp nei det`**.
3. On each router, configure **`router rip`** and
   `network 172.16.0.0`
   `network 192.168.xx.0`
   `network y.0.0.0`
   `ver 2`
   `no auto`
   Where y is router number and xx are the third octet of its associated network numbers. You should be able to ping everywhere from everywhere now. **`show ip route`** for troubleshooting.
4. On R4, enter **`default-information originate`** under router mode. **`show ip route`**
5. On routers 1,2,3,5. configure OSPF and advertise all interfaces except loopback0. **`sh ip ospf nei`** **`sh ip ospf int`** and **`show ip route`** Notice the R's becomes O's in the routing table.
6. On routers 1 and 2, configure
   `router eigrp 100`
   `network 0.0.0.0 255.255.255.255`
   and issue **`do show ip route`**. Notice the O's becomes D's on the routing table.
7. Shut down R1 s0/0 and check the routing table on all routers again.

This is the end of Course 2 labs.