

Lab 4 RIPv2 and EIGRP

RIPv2 / EIGRP LAB

Reference commands:

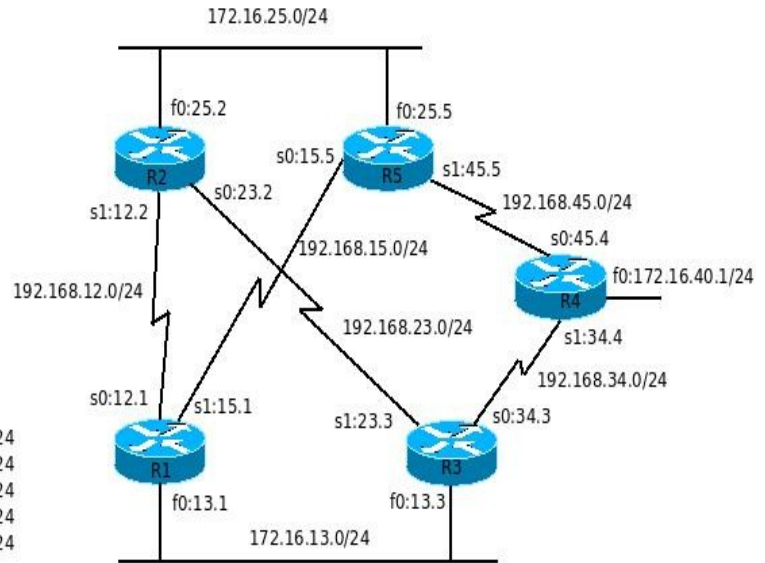
```
no ip domain-lookup
logg sync
clock rate 64000
no shutdown
copy run start
do sh ip int br
no keep
exec-timeout 0 0
defaultinformation originate
privi lev 15
```

```
sh run
sh ip route
wr er
reload
```

```
f0==f0/0
s0==s0/0/0
s1==s0/0/1

Loopback0
R1:1.1.1.1/32
R2:2.2.2.2/32
R3:3.3.3.3/32
R4:4.4.4.4/32
R5:5.5.5.5/32

LAN1
PC1:172.16.13.11/24
PC2:172.16.25.22/24
PC3:172.16.13.33/24
PC4:172.16.40.44/24
PC5:172.16.25.55/24
```



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 privileged password as cisco
 - * 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 outUpon finishing this part, you should be able to ping your neighbor router by the directly connected port.
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**You should be able to ping everywhere from everywhere. **show ip route** for troubleshooting.
4. On each router, configure **router eigrp 100** and **network 0.0.0.0 255.255.255.255**, and issue **do show ip route**. When will the R's becomes D's on the routing table?
5. On R5, enter **defaultinformation originate** under router mode.
6. Type **show ip route** on R1, R2, R3 and R4 to see the result. Do you see a * and “the Gateway of last resort is not set” disappears?