

LAB10: Named EIGRP – IPv4

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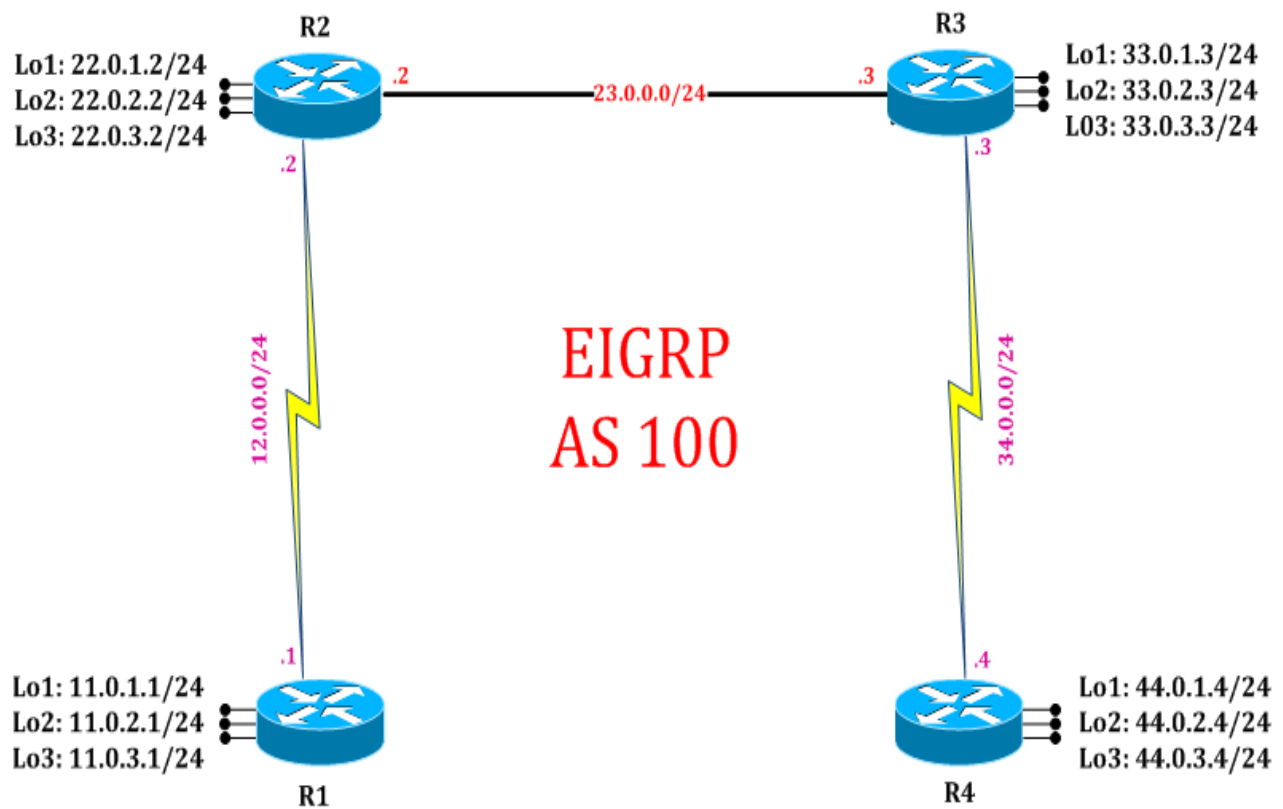
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EIGRP: Redistribution

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LAB 10: Diagram

Note: This Lab was developed on Cisco IOS Version 15.2(4) M1 ADVENTERPRISEK9-M.



LAB 10: EIGRP Redistribution using named configuration

Task 1: Configure IPv4 EIGRP Redistribution using named configuration

Step 1 In the configuration mode of router configure 4 loopbacks with network address in sequence

```
R1:
interface loopback 101
ip address 101.101.101.101 255.255.255.0
interface loopback 102
ip address 102.102.102.102 255.255.255.0
interface loopback 103
ip address 103.103.103.103 255.255.255.0
interface loopback 104
ip address 104.104.104.104 255.255.255.0
```

Step 2 enter address-family interface mode and redistribute EIGRP routes in topology base configuration mode

```
R1:
router eigrp cisco
address-family ipv4 autonomous-system 100
topology base
redistribute connected
exit
```

Task 2: Verification:

Step 1 Verify route in neighbors router routing table by following command:

```
R2#show ip route
```

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
+ - replicated route, % - next hop override

Gateway of last resort is not set

```
11.0.0.0/8 is variably subnetted, 7 subnets, 3 masks
D   11.0.0.0/22 is a summary, 01:13:07, Null0
C   11.0.1.0/24 is directly connected, Loopback1
L   11.0.1.1/32 is directly connected, Loopback1
C   11.0.2.0/24 is directly connected, Loopback2
L   11.0.2.1/32 is directly connected, Loopback2
C   11.0.3.0/24 is directly connected, Loopback3
L   11.0.3.1/32 is directly connected, Loopback3
12.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C   12.0.0.0/24 is directly connected, Serial2/0
L   12.0.0.1/32 is directly connected, Serial2/0
12.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C   12.0.0.0/24 is directly connected, Serial2/0
L   12.0.0.1/32 is directly connected, Serial2/0
22.0.0.0/24 is subnetted, 3 subnets
D   22.0.1.0 [90/13556702] via 12.0.0.2, 02:09:27, Serial2/0
D   22.0.2.0 [90/13556702] via 12.0.0.2, 02:09:22, Serial2/0
D   22.0.3.0 [90/13556702] via 12.0.0.2, 02:09:18, Serial2/0
23.0.0.0/24 is subnetted, 1 subnets
D   23.0.0.0 [90/14068062] via 12.0.0.2, 02:09:35, Serial2/0
33.0.0.0/24 is subnetted, 3 subnets
D   33.0.1.0 [90/14068702] via 12.0.0.2, 00:23:42, Serial2/0
D   33.0.2.0 [90/14068702] via 12.0.0.2, 00:23:32, Serial2/0
D   33.0.3.0 [90/14068702] via 12.0.0.2, 00:23:23, Serial2/0
34.0.0.0/24 is subnetted, 1 subnets
D   34.0.0.0 [90/24308062] via 12.0.0.2, 00:23:53, Serial2/0
44.0.0.0/24 is subnetted, 3 subnets
D   44.0.1.0 [90/24308702] via 12.0.0.2, 00:21:34, Serial2/0
D   44.0.2.0 [90/24308702] via 12.0.0.2, 00:21:28, Serial2/0
D   44.0.3.0 [90/24308702] via 12.0.0.2, 00:21:22, Serial2/0
101.0.0.0/24 is subnetted, 1 subnets
D EX 101.101.101.0 [170/2297856] via 12.0.0.1, 00:08:37, Serial2/0
102.0.0.0/24 is subnetted, 1 subnets
D EX 102.102.102.0 [170/2297856] via 12.0.0.1, 00:08:37, Serial2/0
103.0.0.0/24 is subnetted, 1 subnets
D EX 103.103.103.0 [170/2297856] via 12.0.0.1, 00:08:37, Serial2/0
104.0.0.0/24 is subnetted, 1 subnets
D EX 104.104.104.0 [170/2297856] via 12.0.0.1, 00:08:37, Serial2/0
```

Step 2 Analyze administrative distance of redistribution route in neighbor router

```
D EX 101.101.101.0 [170/2297856] via 12.0.0.1, 00:08:37, Serial2/0
```

Step 3 Analyze network type as “Dex” in neighbor router routing table.

```
D EX 101.101.101.0 [170/2297856] via 12.0.0.1, 00:08:37, Serial2/0
```