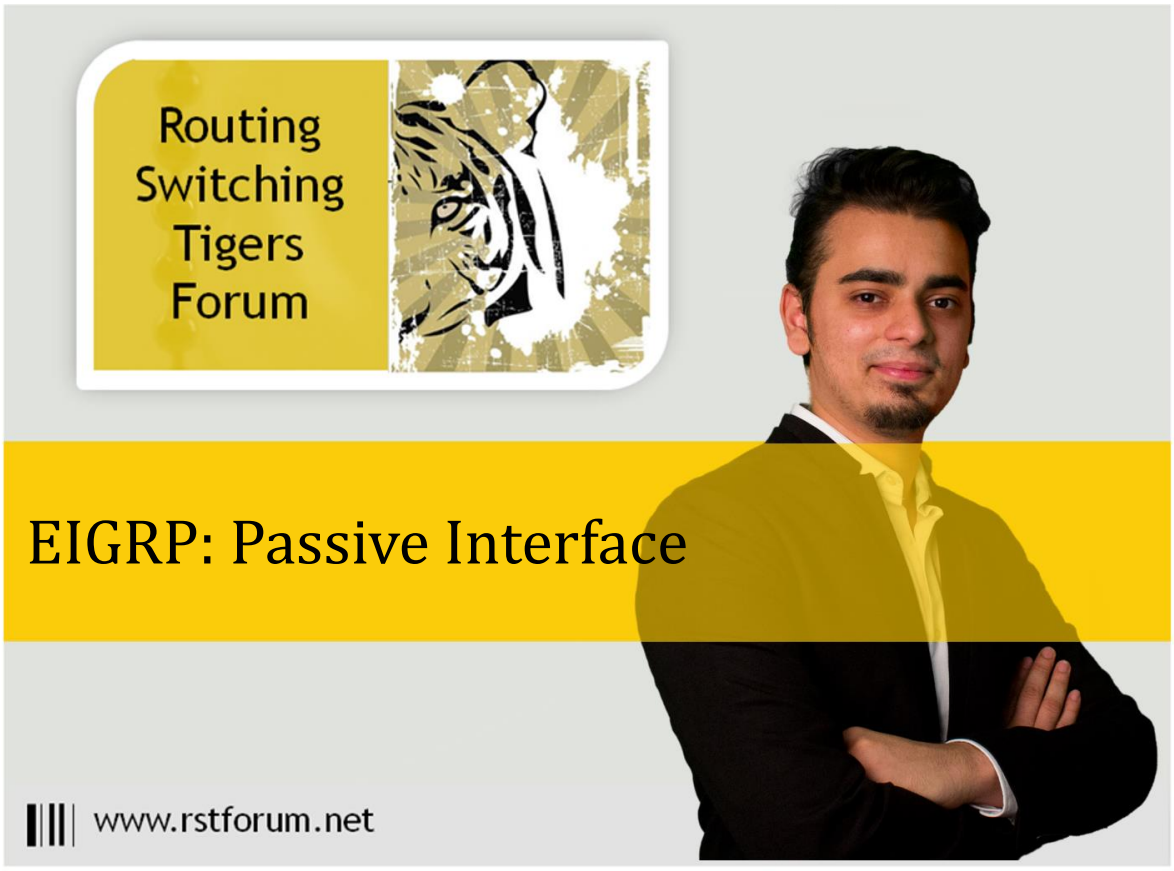
LAB4: Named EIGRP – IPv4

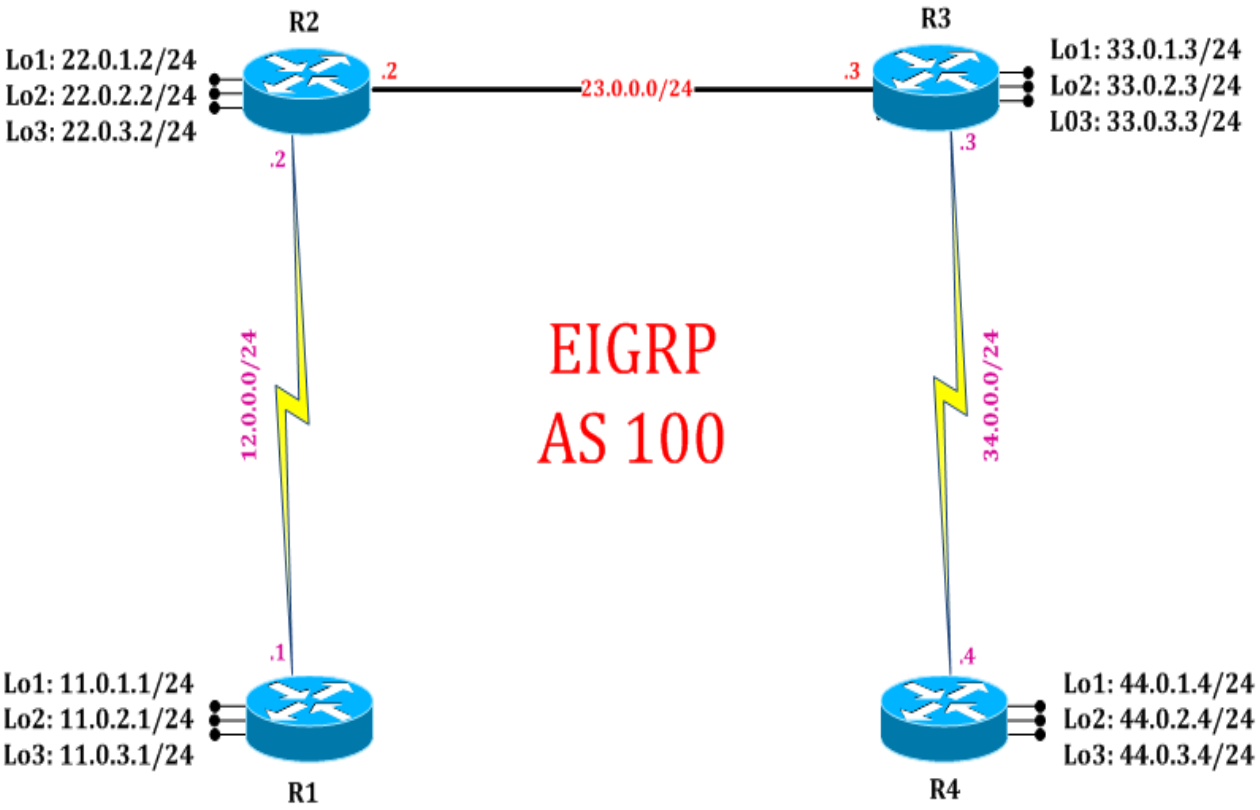
Disclaimer

This Configuration Guide is designed to assist members to enhance their skills in respective technology area. While every effort has been made to ensure that all material is as complete and accurate as possible, the enclosed material is presented on an "as is" basis. Neither the authors nor Forum assume any liability or responsibility to any person or entity with respect to loss or damages incurred from the information contained in this guide. This Lab Guide was developed by RSTForum. Any similarities between material presented in this configuration guide and any other material is completely coincidental.



LAB 4: Diagram

Note: This Lab was developed on Cisco IOS Version15.2(4) M1 ADVENTERPRISEK9-M.



LAB 4: EIGRP Passive-interface using named configuration

Task 1: Configure IPv4 EIGRP process with Passive interface using named configuration.

Step 1 In the configuration mode of router configure EIGRP process with a name using network 0.0.0.0 by following command

R2:
```
router eigrp cisco
address-family ipv4 autonomous-system 100
network 0.0.0.0
exit
```

Step 2 Enter address-family default interface configuration mode and suppress EIGRP updates using "passive-interface" command

R2:
```
router eigrp cisco
address-family ipv4 autonomous-system 100
af-interface default
passive-interface
```

(After suppressing EIGRP updates by using passive-interface command using named configuration, all interface is suppressed and not been seen.)

R2# show ip eigrp interfaces
! (Gives detailed list of interfaces on which EIGRP is sending updates)

EIGRP-IPv4 VR(cisco) Address-Family Interfaces for AS(100)

		Xmit Queue	PeerQ	Mean	Pacing Time	Multicast	Pending
Interface	Peers	Un/Reliable	Un/Reliable	SRTT	Un/Reliable	Flow Timer	Routes

Step 3 Exit address-family interface default interface configuration mode and enter address-family interface serial 2/0 mode and Un-suppress EIGRP updates using " no passive-interface" command

R2:
```
exit-af-interface
af-interface serial 2/0
no passive-interface
exit
```

(After un-suppressing EIGRP updates on serial 2/0 using no passive-interface command, only Serial 2/0 interface is un-suppress and is seen in eigrp interface table.)

R2 #show ip eigrp interfaces
! (Gives detailed list of interfaces on which EIGRP is sending updates)

EIGRP-IPv4 VR(cisco) Address-Family Interfaces for AS(100)

Interface	Peers	Xmit Queue Un/Reliable	PeerQ Un/Reliable	Mean SRTT	Pacing Time Un/Reliable	Multicast Flow Timer	Pending Routes
Se2/0	1	0/0	0/0	11	0/16	56	0

R2:
exit-af-interface
af-interface default
no passive-interface
exit

R2 #show ip eigrp interfaces
! (Gives detailed list of interfaces on which EIGRP is sending updates)

EIGRP-IPv4 VR(cisco) Address-Family Interfaces for AS(100)

Interface	Peers	Xmit Queue Un/Reliable	PeerQ Un/Reliable	Mean SRTT	Pacing Time Un/Reliable	Multicast Flow Timer	Pending Routes
Se2/0	1	0/0	0/0	11	0/16	56	0
Et0/0	1	0/0	0/0	1	0/2	50	0
Lo1	0	0/0	0/0	0	0/0	0	0
Lo2	0	0/0	0/0	0	0/0	0	0
Lo3	0	0/0	0/0	0	0/0	0	0

Task 2: Verification:

Step 1 Verify EIGRP neighborship by following command:

R2#show ip eigrp neighbors
! (Gives details and list of EIGRP neighbors)

EIGRP-IPv4 VR(cisco) Address-Family Neighbors for AS(100)

H	Address	Interface	Hold (sec)	Uptime	SRTT (ms)	RTO	Q Cnt	Seq Num
1	23.0.0.3	Et0/0	12	00:13:54	1	100	0	15
0	12.0.0.1	Se2/0	11	00:19:33	11	100	0	13