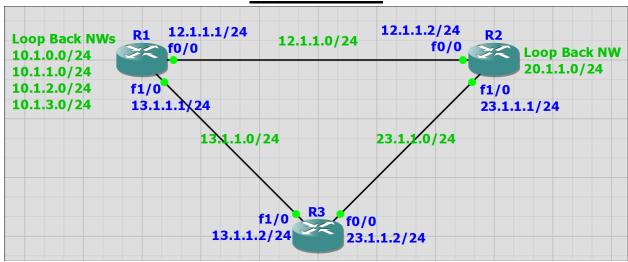
EIGRP Lab



<u>R1</u>

R1(config)#interface fastEthernet 0/0

R1(config-if)#no shutdown

R1(config-if)#ip address 12.1.1.1 255.255.255.0

R1(config-if)#ex

R1(config)#interface fastEthernet 1/0

R1(config-if)#no shutdown

R1(config-if)#ip address 13.1.1.1 255.255.255.0

R1(config-if)#ex

R1 (config)#interface loopback 0

R1 (config-if)#no shutdown

R1 (config-if)#ip address 10.1.0.1 255.255.255.0

R1 (config-if)#ex

R1 (config)#interface loopback 1

R1 (config-if)#no shutdown

R1 (config-if)#ip address 10.1.1.1 255.255.255.0

R1 (config-if)#ex

R1 (config)#interface loopback 2

R1 (config-if)#no shutdown

R1 (config-if)#ip address 10.1.2.1 255.255.255.0

R1 (config-if)#ex

R1 (config)#interface loopback 3

R1 (config-if)#no shutdown

R1 (config-if)#ip address 10.1.3.1 255.255.255.0 R1 (config-if)#ex

R1#show ip interface brief

R1#show ip route

R1(config)#router eigrp 100 R1(config-router)#no auto-summary R1(config-router)#network 0.0.0.0 255.255.255.255

R1#show ip eigrp neighbors R1#show ip eigrp topology

R1(config-router)#passive-interface loopback 0 R1(config-router)#passive-interface loopback 1 R1(config-router)#passive-interface loopback 2 R1(config-router)#passive-interface loopback 3

Or it is better

R1(config-router)#passive-interface default R1(config-router)#no passive-interface fa 0/0 R1(config-router)#no passive-interface fa 1/0

R1(config)#interface fastEthernet 0/0 R1(config-if)#ip summary-address eigrp 100 10.1.0.0 255.255.252.0

R1(config-if)#interface fastEthernet 1/0 R1(config-if)#ip summary-address eigrp 100 10.1.0.0 255.255.252.0

R1(config)#key chain Transistor
R1(config-keychain)#key 10
R1(config-keychain-key)#key-string epic
R1(config-keychain-key)#ex
R1(config-keychain)#ex

R1(config)#interface fastEthernet 0/0
R1(config-if)#ip authentication mode eigrp 100 md5
R1(config-if)#ip authentication key-chain eigrp 100 Transistor

R1(config-if)#interface fastEthernet 1/0
R1(config-if)#ip authentication mode eigrp 100 md5
R1(config-if)#ip authentication key-chain eigrp 100 Transistor

R2

R2(config)#interface fastEthernet 0/0

R2(config-if)#no shutdown

R2(config-if)#ip address 12.1.1.2 255.255.255.0

R2(config-if)#ex

R2(config)#interface fastEthernet 1/0

R2(config-if)#no shutdown

R2(config-if)#ip address 23.1.1.1 255.255.255.0

R2(config-if)#ex

R2(config)#interface loopback 0

R2(config-if)#ip address 20.1.1.1 255.255.255.0

R2(config)#router eigrp 100

R2(config-router)#no auto-summary

R2(config-router)#network 0.0.0.0 255.255.255.255

R2(config)#key chain Transistor

R2(config-keychain)#key 10

R2(config-keychain-key)#key-string epic

R2(config-keychain-key)#ex

R2(config-keychain)#ex

R2(config)#interface fastEthernet 0/0

R2(config-if)#ip authentication mode eigrp 100 md5

R2(config-if)#ip authentication key-chain eigrp 100 Transistor

R2(config-if)#interface fastEthernet 1/0

R2(config-if)#ip authentication mode eigrp 100 md5

R2(config-if)#ip authentication key-chain eigrp 100 Transistor

R3

R3(config)#interface fastEthernet 0/0

R3(config-if)#no shutdown

R3(config-if)#ip address 23.1.1.2 255.255.255.0

R3(config-if)#ex

R3(config)#interface fastEthernet 1/0

R3(config-if)#no shutdown

R3(config-if)#ip address 13.1.1.2 255.255.255.0

R3(config-if)#ex

R3(config)#router eigrp 100

R3(config-router)#no auto-summary

R3(config-router)#network 0.0.0.0 255.255.255.255

R3(config-if)#key chain Transistor

R3(config-keychain)#key 10

R3(config-keychain-key)#key-string epic

R3(config-keychain-key)#ex

R3(config-keychain)#ex

R3(config)#interface fastEthernet 0/0

R3(config-if)#ip authentication mode eigrp 100 md5

R3(config-if)#ip authentication key-chain eigrp 100 Transistor

R3(config-if)#interface fastEthernet 1/0

R3(config-if)#ip authentication mode eigrp 100 md5

R3(config-if)#ip authentication key-chain eigrp 100 Transistor

The full configuration as script

 R1	=======================================

config t

interface fastEthernet 0/0 no shutdown ip address 12.1.1.1 255.255.255.0 ex

interface fastEthernet 1/0 no shutdown ip address 13.1.1.1 255.255.255.0 ex

interface loopback 0 no shutdown ip address 10.1.0.1 255.255.255.0 ex

interface loopback 1 no shutdown ip address 10.1.1.1 255.255.255.0 ex

interface loopback 2 no shutdown ip address 10.1.2.1 255.255.255.0 ex

interface loopback 3 no shutdown ip address 10.1.3.1 255.255.255.0 ex

router eigrp 100 no auto-summary network 0.0.0.0 255.255.255.255 passive-interface default no passive-interface fa 0/0 no passive-interface fa 1/0 ex

interface fastEthernet 0/0 ip summary-address eigrp 100 10.1.0.0 255.255.252.0 ex

interface fastEthernet 1/0 ip summary-address eigrp 100 10.1.0.0 255.255.252.0 ex

key chain Transistor key 10 key-string epic ex ex

interface fastEthernet 0/0 ip authentication mode eigrp 100 md5 ip authentication key-chain eigrp 100 Transistor ex

interface fastEthernet 1/0 ip authentication mode eigrp 100 md5 ip authentication key-chain eigrp 100 Transistor ex

config t

interface fastEthernet 0/0 no shutdown ip address 12.1.1.2 255.255.255.0 ex

interface fastEthernet 1/0 no shutdown ip address 23.1.1.1 255.255.255.0 ex

interface loopback 0 ip address 20.1.1.1 255.255.255.0 ex

router eigrp 100 no auto-summary network 0.0.0.0 255.255.255 ex

key chain Transistor key 10 key-string epic ex ex

interface fastEthernet 0/0 ip authentication mode eigrp 100 md5 ip authentication key-chain eigrp 100 Transistor

interface fastEthernet 1/0 ip authentication mode eigrp 100 md5 ip authentication key-chain eigrp 100 Transistor

=======================================	R3	

config t

interface fastEthernet 0/0 no shutdown ip address 23.1.1.2 255.255.255.0 ex

interface fastEthernet 1/0 no shutdown ip address 13.1.1.2 255.255.255.0 ex

router eigrp 100 no auto-summary network 0.0.0.0 255.255.255 ex

key chain Transistor key 10 key-string epic ex ex

interface fastEthernet 0/0 ip authentication mode eigrp 100 md5 ip authentication key-chain eigrp 100 Transistor

interface fastEthernet 1/0 ip authentication mode eigrp 100 md5 ip authentication key-chain eigrp 100 Transistor