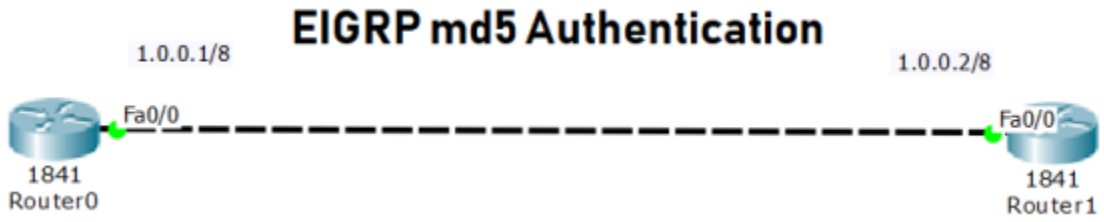
Lab – 8 – EIGRP Authentication and Timers

Topology



Step 1: Configure IP address on Router R1

Router>enable

Router#config t

Router (config) #host R1

R1(config)#int fa0/0

R1 (config-if) #ip add 1.0.0.1 255.0.0.0

R1(config-if)#no shut

EIGRP Configuration on Router R1

R1 (config) #router eigrp 1

R1 (config-router) #network 1.0.0.0

R1 (config-router) #exit

Step2: Configure IP Address on Router R2

Router>enable

Router#config t

Router (config) #Host R2

R2 (config) #int fa0/0

R2 (config-if) #ip add 1.0.0.2 255.0.0.0

R2 (config-if) #no shut

EIGRP Configuration on Router R2

R2#config t

R2 (config) #router eigrp 1

R2 (config-router) #network 1.0.0.0

Step 3: EIGRP Authentication on Router R1

R1#config t

R1 (config) #key chain satishkey

R1 (config-keychain) #key 1

R1 (config-keychain-key) #key-string 123

R1 (config-keychain-key) #end

R1#config t

R1 (config) #int fa0/0

R1 (config-if) #ip authentication mode eigrp 1 md5

R1 (config-if) #ip authentication key-chain eigrp 1 satishkey

Step 4: EIGRP Authentication on Router R2

R2#config t

R2 (config) #key chain satishkey

R2 (config-keychain) #key 1

R2 (config-keychain-key) #key-string 123

R2(config-keychain-key) #end

R2#config t

R2 (config) #int fa0/0

R2 (config-if) #ip authentication mode eigrp 1 md5

R2 (config-if) #ip authentication key-chain eigrp 1 satishkey

Step 5: Testing EIGRP Authentication

R2#debug eigrp packets

EIGRP Packets debugging is on

(UPDATE, REQUEST, QUERY, REPLY, HELLO, ACK)

R2#

EIGRP: Received packet with MD5 authentication, key id = 1

EIGRP: Received HELLO on FastEthernet0/0 nbr 1.0.0.1

AS 1, Flags 0x0, Seq 2/0 idbQ 0/0

EIGRP: Sending HELLO on FastEthernet0/0

AS 1, Flags 0x0, Seq 2/0 idbQ 0/0 iidbQ un/rely 0/0