

CNNA LAB 4-4: IP Routing - EIGRP

[ตั้งค่าที่ Ranet HQ (คลิกที่เครื่อง console)] :

(ไปยังแท็บ Desktop > คลิก Terminal > กด OK)

```
Ranet-HQ>en
Ranet-HQ#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Ranet-HQ(config)#int fa0/0
Ranet-HQ(config-if)#no sh

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Ranet-HQ(config-if)#ip add 5.88.192.54 255.255.255.248
Ranet-HQ(config-if)#int s0/0/0
Ranet-HQ(config-if)#no sh

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Ranet-HQ(config-if)#ip add 5.88.192.57 255.255.255.248
Ranet-HQ(config-if)#int s0/1/0
Ranet-HQ(config-if)#no sh

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up
Ranet-HQ(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up
Ranet-HQ(config-if)#ip add 5.88.192.226 255.255.255.252
Ranet-HQ(config-if)#exit
Ranet-HQ(config)#router eigrp 10110
Ranet-HQ(config-router)#network 5.88.192.48 0.0.0.7
Ranet-HQ(config-router)#network 5.88.192.56 0.0.0.7
Ranet-HQ(config-router)#no auto-summary
Ranet-HQ(config-router)#exit
```

```
Ranet-HQ(config)#ip route 0.0.0.0 0.0.0.0 se0/1/0
Ranet-HQ(config)#
Ranet-HQ#
%SYS-5-CONFIG_I: Configured from console by console
Ranet-HQ#sh ip protocol

Routing Protocol is "eigrp 10110 "
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Default networks flagged in outgoing updates
  Default networks accepted from incoming updates
  EIGRP metric weight K1=1, K2=0, K3=1, K4=0, K5=0
  EIGRP maximum hopcount 100
  EIGRP maximum metric variance 1
  Redistributing: eigrp 10110
    Automatic network summarization is not in effect
  Maximum path: 4
  Routing for Networks:
    5.88.192.48/29
    5.88.192.56/29
  Routing Information Sources:
    Gateway         Distance      Last Update
  Distance: internal 90 external 170

Ranet-HQ#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
Ranet-HQ#
```

[ตั้งค่าที่ Ranet BR (คลิกที่เครื่อง console)] :

(ไปยังแท็บ Desktop > คลิก Terminal > กด OK)

```
Ranet-BR>en
Ranet-BR#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Ranet-BR(config)#int fa0/0
```

```
Ranet-BR(config-if)#no sh

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Ranet-BR(config-if)#ip add 5.88.192.46 255.255.255.240
Ranet-BR(config-if)#int s0/0/0
Ranet-BR(config-if)#no sh

Ranet-BR(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
Ranet-BR(config-if)#clock rate 64000
Ranet-BR(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
Ranet-BR(config-if)#ip add 5.88.192.62 255.255.255.248
Ranet-BR(config-if)#exit
Ranet-BR(config)#router eigrp 10110
Ranet-BR(config-router)#network 5.88.192.32 0.0.0.15
Ranet-BR(config-router)#network 5.88.192.56 0.0.0.3
Ranet-BR(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 10110: Neighbor 5.88.192.57 (Serial0/0/0) is up: new adjacency
Ranet-BR(config-router)#no auto-summary
Ranet-BR(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 10110: Neighbor 5.88.192.57 (Serial0/0/0) is up: new adjacency
Ranet-BR(config-router)#exit
Ranet-BR(config)#ip route 0.0.0.0 0.0.0.0 se0/0/0
Ranet-BR(config)#
Ranet-BR#
%SYS-5-CONFIG_I: Configured from console by console
Ranet-BR#sh ip protocol

Routing Protocol is "eigrp 10110 "
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Default networks flagged in outgoing updates
  Default networks accepted from incoming updates
  EIGRP metric weight K1=1, K2=0, K3=1, K4=0, K5=0
  EIGRP maximum hopcount 100
```

EIGRP maximum metric variance 1

Redistributing: eigrp 10110

Automatic network summarization is not in effect

Maximum path: 4

Routing for Networks:

5.88.192.32/28

5.88.192.56/30

Routing Information Sources:

Gateway	Distance	Last Update
5.88.192.57	90	497401

5.88.192.57 90 497401

Distance: internal 90 external 170

Ranet-BR#sh ip route

Codes: C - connected, S - static, I - IGRP, 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, E - EGP

i - IS-IS, 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

Gateway of last resort is 0.0.0.0 to network 0.0.0.0

5.0.0.0/8 is variably subnetted, 3 subnets, 2 masks

C 5.88.192.32/28 is directly connected, FastEthernet0/0

D 5.88.192.48/29 [90/20514560] via 5.88.192.57, 00:00:53, Serial0/0/0

C 5.88.192.56/29 is directly connected, Serial0/0/0

S* 0.0.0.0/0 is directly connected, Serial0/0/0

Ranet-BR#copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

Ranet-BR#

[ไปยังเครื่อง Host1] :

(ไปยังแท็บ Desktop > คลิกไอคอน Command Prompt)

Packet Tracer PC Command Line 1.0

PC>ping 5.88.192.40

Pinging 5.88.192.40 with 32 bytes of data:

Request timed out.

Reply from 5.88.192.40: bytes=32 time=10ms TTL=126

Reply from 5.88.192.40: bytes=32 time=15ms TTL=126

Reply from 5.88.192.40: bytes=32 time=17ms TTL=126

Ping statistics for 5.88.192.40:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 10ms, Maximum = 17ms, Average = 14ms

PC>ping 177.87.0.39

Pinging 177.87.0.39 with 32 bytes of data:

Request timed out.

Reply from 177.87.0.39: bytes=32 time=14ms TTL=126

Reply from 177.87.0.39: bytes=32 time=12ms TTL=126

Reply from 177.87.0.39: bytes=32 time=23ms TTL=126

Ping statistics for 177.87.0.39:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 12ms, Maximum = 23ms, Average = 16ms

PC>

[ไปยังเครื่อง Host2] :

(ไปยังแท็บ Desktop > คลิกไอคอน Command Prompt)

Packet Tracer PC Command Line 1.0

PC>ping 5.88.192.32

Pinging 5.88.192.32 with 32 bytes of data:

Reply from 5.88.192.46: bytes=32 time=5ms TTL=255

Reply from 5.88.192.46: bytes=32 time=2ms TTL=255

Reply from 5.88.192.46: bytes=32 time=22ms TTL=255

Reply from 5.88.192.46: bytes=32 time=4ms TTL=255

Ping statistics for 5.88.192.46:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 22ms, Maximum = 23ms, Average = 22ms

PC>ping 177.87.0.39

Pinging 177.87.0.39 with 32 bytes of data:

Reply from 177.87.0.39: bytes=32 time=22ms TTL=125

Reply from 177.87.0.39: bytes=32 time=23ms TTL=125

Reply from 177.87.0.39: bytes=32 time=23ms TTL=125

Reply from 177.87.0.39: bytes=32 time=22ms TTL=125

Ping statistics for 177.87.0.39:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 22ms, Maximum = 23ms, Average = 22ms

PC>

