เฉลยแล็ป Packet Activity

CCNA LAB 4-3: IP Routing - OSPF

[ตั้งค่าที่ Ranet HQ (คลิกที่เครื่อง console)] :

(ไปยังแท๊บ 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 128.0.6.142 255.255.255.240

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 128.0.6.157 255.255.255.252

Ranet-HQ(config-if)#int s0/1/0

Ranet-HQ(config-if)#no sh

Ranet-HQ(config-if)#

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Ranet-HQ(config-if)#ip add 128.0.6.94 255.255.255.252

Ranet-HQ(config-if)#exit

Ranet-HQ(config)#int loopback 0

%LINK-5-CHANGED: Interface Loopback0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

Ranet-HQ(config-if)#ip add 1.1.0.1 255.255.255.0

Ranet-HQ(config-if)#exit



Ranet-HQ(config)#router ospf 1

Ranet-HQ(config-router)#network 128.0.6.128 0.0.0.15 area 0

Ranet-HQ(config-router)#network 128.0.6.156 0.0.0.3 area 0

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 "ospf 1"

Outgoing update filter list for all interfaces is not set

Incoming update filter list for all interfaces is not set

Router ID 1.1.0.1

Number of areas in this router is 1. 1 normal 0 stub 0 nssa

Maximum path: 4

Routing for Networks:

128.0.6.128 0.0.0.15 area 0

128.0.6.156 0.0.0.3 area 0

Routing Information Sources:

Gateway Distance Last Update

Distance: (default is 110)

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



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Ranet-BR(config-if)#

%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 128.0.6.150 255.255.255.248

Ranet-BR(config-if)#int s0/0/0

Ranet-BR(config-if)#no sh

%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 128.0.6.158 255.255.255.252

Ranet-BR(config-if)#exit

Ranet-BR(config)#int loopback 0

%LINK-5-CHANGED: Interface Loopback0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

Ranet-BR(config-if)#ip add 1.1.1.1 255.255.255.0

Ranet-BR(config-if)#exit

Ranet-BR(config)#router ospf 100

Ranet-BR(config-router)#network 128.0.6.144 0.0.0.7 area 0

Ranet-BR(config-router)#network 128.0.6.156 0.0.0.3 area 0

Ranet-BR(config-router)#

00:06:09: %OSPF-5-ADJCHG: Process 100, Nbr 1.1.0.1 on Serial0/0/0 from LOADING to FULL, Loading Done

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 "ospf 100"

Outgoing update filter list for all interfaces is not set

Incoming update filter list for all interfaces is not set

Router ID 1.1.1.1

Number of areas in this router is 1. 1 normal 0 stub 0 nssa



Routing for Networks:

128.0.6.144 0.0.0.7 area 0

128.0.6.156 0.0.0.3 area 0

Routing Information Sources:

Gateway Distance Last Update

128.0.6.157 110 00:00:20

Distance: (default is 110)

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

1.0.0.0/24 is subnetted, 1 subnets

C 1.1.1.0 is directly connected, Loopback0

128.0.0.0/16 is variably subnetted, 3 subnets, 3 masks

- O 128.0.6.128/28 [110/782] via 128.0.6.157, 00:00:29, Serial0/0/0
- C 128.0.6.144/29 is directly connected, FastEthernet0/0
- C 128.0.6.156/30 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] :

(ไปยังแท๊บ Desktop > คลิกไอคอน Command Prompt)

Packet Tracer PC Command Line 1.0



Pinging 128.0.6.148 with 32 bytes of data:

Request timed out.

Reply from 128.0.6.148: bytes=32 time=11ms TTL=126

Reply from 128.0.6.148: bytes=32 time=12ms TTL=126

Reply from 128.0.6.148: bytes=32 time=8ms TTL=126

Ping statistics for 128.0.6.148:

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

Approximate round trip times in milli-seconds:

Minimum = 8ms, Maximum = 12ms, Average = 10ms

PC>ping 203.87.129.95

Pinging 203.87.129.95 with 32 bytes of data:

Request timed out.

Reply from 203.87.129.95: bytes=32 time=10ms TTL=126

Reply from 203.87.129.95: bytes=32 time=8ms TTL=126

Reply from 203.87.129.95: bytes=32 time=10ms TTL=126

Ping statistics for 203.87.129.95:

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

Approximate round trip times in milli-seconds:

Minimum = 8ms, Maximum = 10ms, Average = 9ms

PC>

[ไปยังเครื่อง Host2] :

(ไปยังแท็บ Desktop > คลิกไอคอน Command Prompt)

Packet Tracer PC Command Line 1.0

PC>ping 128.0.6.130

Pinging 128.0.6.130 with 32 bytes of data:



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Reply from 128.0.6.130: bytes=32 time=17ms TTL=126

Reply from 128.0.6.130: bytes=32 time=14ms TTL=126

Reply from 128.0.6.130: bytes=32 time=12ms TTL=126

Reply from 128.0.6.130: bytes=32 time=12ms TTL=126

Ping statistics for 128.0.6.130:

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

Approximate round trip times in milli-seconds:

Minimum = 12ms, Maximum = 17ms, Average = 13ms

PC>ping 203.87.129.95

Pinging 203.87.129.95 with 32 bytes of data:

Reply from 203.87.129.95: bytes=32 time=24ms TTL=125

Reply from 203.87.129.95: bytes=32 time=16ms TTL=125

Reply from 203.87.129.95: bytes=32 time=17ms TTL=125

Reply from 203.87.129.95: bytes=32 time=12ms TTL=125

Ping statistics for 203.87.129.95:

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

Approximate round trip times in milli-seconds:

Minimum = 12ms, Maximum = 24ms, Average = 17ms

PC>

