

驗證網段路由SP之間的端到端連線

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[背景資訊](#)

[拓撲](#)

[初始驗證](#)

[BGP組態](#)

[段路由配置](#)

[最終驗證](#)

簡介

本檔案介紹使用Cisco IOS® XR軟體驗證區段路由服務供應商(SP)間端對端連接的程序。

必要條件

需求

思科建議您瞭解以下主題：

- 基本IP路由知識
- Cisco IOS和Cisco IOS XR命令列知識

採用元件

本文中的資訊係根據以下軟體和硬體版本：

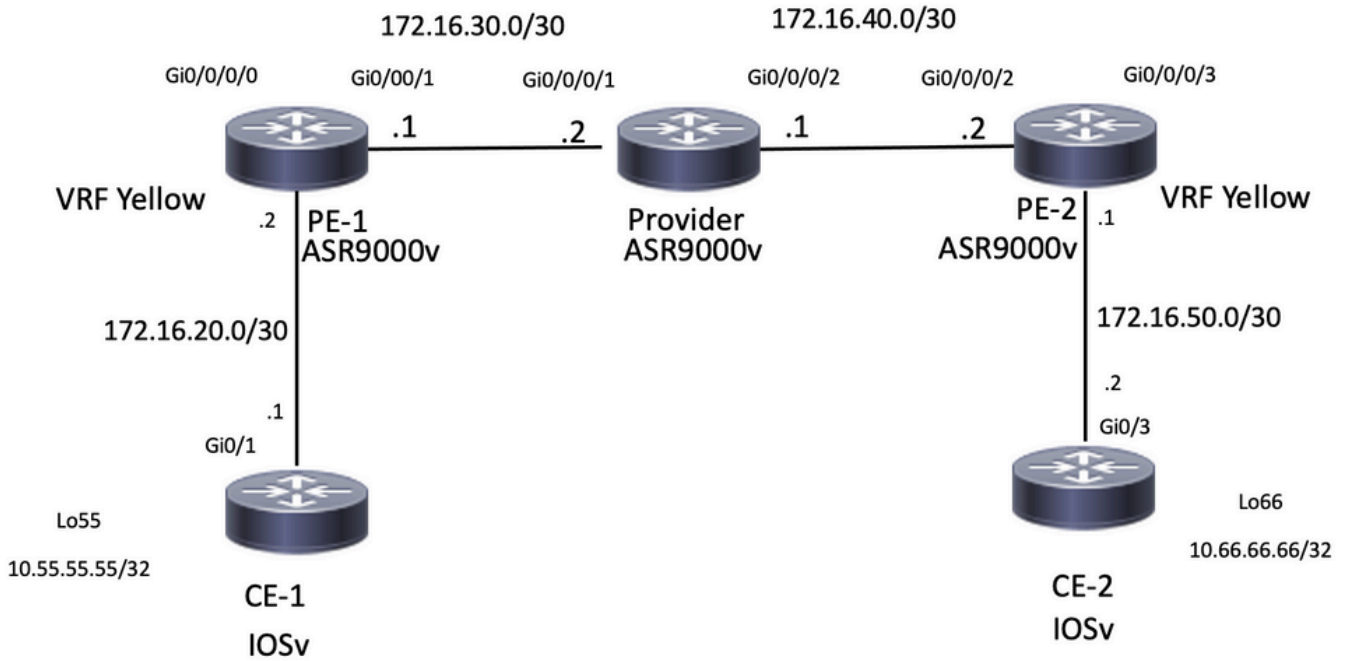
- 採用Cisco IOS XR軟體的路由器
- 採用Cisco IOS軟體的路由器

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

本文檔旨在演示建立分段路由雲的基本配置，以及如何驗證Cisco IOS XR路由器上的端到端連線。

拓撲



網路拓撲

初始驗證

BGP組態

CE-1

Loopback55模擬路由器CE-1的LAN端。您可以通過eBGP將此字首通告給PE-1鄰居：

```
CE-1#show run | section r b
router bgp 65535
  bgp router-id 10.1.1.1
  bgp log-neighbor-changes
  redistribute connected
  redistribute eigrp 10
  neighbor 172.16.20.2 remote-as 8181
```

```
CE-1#show ip bgp neighbors 172.16.20.2 advertised-routes
BGP table version is 25, local router ID is 10.1.1.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
               x best-external, a additional-path, c RIB-compressed,
               t secondary path,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found
```

Network	Next Hop	Metric	LocPrf	Weight	Path
*> 10.1.1.1/32	0.0.0.0		0	32768	?
*> 10.11.11.11/32	192.168.1.1	10880		32768	?
*> 10.55.55.55/32	0.0.0.0		0	32768	?
*> 172.16.20.0/30	0.0.0.0		0	32768	?
*> 192.168.1.0	0.0.0.0		0	32768	?

Total number of prefixes 5

PE-1

此路由器收到字首10.55.55.55/32並且已連線，現在能夠將其通告到服務提供商雲中：

```
RP/0/RP0/CPU0:PE-1#show run vrf
```

```
Fri Jan 27 15:07:10.465 UTC
vrf Yellow
address-family ipv4 unicast
import route-target
200:200
!
export route-target
200:200
!
```

```
RP/0/RP0/CPU0:PE-1#show run router bgp
```

```
Fri Jan 27 14:54:33.488 UTC
router bgp 8181
  bgp router-id 10.2.2.2
  address-family ipv4 unicast
  !
  address-family vpnv4 unicast
  !
  neighbor 10.3.3.3
    remote-as 8181
    update-source Loopback0
  address-family vpnv4 unicast
    route-policy PASS in
    route-policy PASS out
  !
  !
vrf Yellow
  rd 200:200
  address-family ipv4 unicast
  !
  neighbor 172.16.20.1
    remote-as 65535
  address-family ipv4 unicast
    route-policy PASS in
    route-policy PASS out
  as-override
  !
```

```
RP/0/RP0/CPU0:PE-1#show bgp vrf Yellow ipv4 unicast neighbors 172.16.20.1 routes
```

```
Fri Jan 27 14:54:48.433 UTC
BGP VRF Yellow, state: Active
BGP Route Distinguisher: 200:200
VRF ID: 0x60000001
BGP router identifier 10.2.2.2, local AS number 8181
Non-stop routing is enabled
BGP table state: Active
Table ID: 0xe0000001 RD version: 73
BGP main routing table version 73
BGP NSR Initial initsync version 2 (Reached)
BGP NSR/ISSU Sync-Group versions 0/0
```

```
Status codes: s suppressed, d damped, h history, * valid, > best
               i - internal, r RIB-failure, S stale, N Nexthop-discard
Origin codes: i - IGP, e - EGP, ? - incomplete
   Network          Next Hop          Metric LocPrf Weight Path
Route Distinguisher: 200:200 (default for vrf Yellow)
*> 10.1.1.1/32      172.16.20.1          0             0 65535 ?
*> 10.11.11.11/32  172.16.20.1         10880          0 65535 ?
*> 10.55.55.55/32  172.16.20.1          0             0 65535 ?
```

```
*> 172.16.20.0/30      172.16.20.1          0          0 65535 ?
*> 192.168.1.0/24     172.16.20.1          0          0 65535 ?
```

Processed 5 prefixes, 5 paths

RP/0/RP0/CPU0:PE-1#ping vrf Yellow 10.55.55.55

Fri Jan 27 14:55:06.077 UTC

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 10.55.55.55, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 4/5/7 ms

CE-2

Loopback66模擬CE-2路由器的LAN端。與CE-1類似，此路由器會通過eBGP向鄰居路由器PE-2通告字首。

CE-2#show run | section r b

```
router bgp 65535
  bgp router-id 10.5.5.5
  bgp log-neighbor-changes
  redistribute connected
  redistribute eigrp 10
  neighbor 172.16.50.1 remote-as 8181
```

CE-2#show ip bgp neighbors 172.16.50.1 advertised-routes

BGP table version is 15, local router ID is 10.5.5.5

Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
x best-external, a additional-path, c RIB-compressed,
t secondary path,

Origin codes: i - IGP, e - EGP, ? - incomplete

RPKI validation codes: V valid, I invalid, N Not found

	Network	Next Hop	Metric	LocPrf	Weight	Path
*>	10.5.5.5/32	0.0.0.0		0	32768	?
*>	10.22.22.22/32	192.168.4.1	10880		32768	?
*>	10.66.66.66/32	0.0.0.0		0	32768	?
*>	172.16.50.0/30	0.0.0.0		0	32768	?
*>	192.168.4.0	0.0.0.0		0	32768	?

Total number of prefixes 5

PE-2

此路由器收到字首10.66.66.66/32，現在能夠向服務提供商雲進行通告：

RP/0/RP0/CPU0:PE-2#show run vrf

Fri Jan 27 15:07:51.117 UTC

vrf Yellow

address-family ipv4 unicast

import route-target

200:200

!

export route-target

200:200

!

RP/0/RP0/CPU0:PE-2#show run router bgp

Fri Jan 27 14:59:56.957 UTC

router bgp 8181

bgp router-id 10.4.4.4

```

address-family ipv4 unicast
!
address-family vpnv4 unicast
!
neighbor 10.3.3.3
  remote-as 8181
  update-source Loopback0
  address-family vpnv4 unicast
    route-policy PASS in
    route-policy PASS out
!
!
vrf Yellow
  rd 200:200
  address-family ipv4 unicast
  !
  neighbor 172.16.50.2
    remote-as 65535
  address-family ipv4 unicast
    route-policy PASS in
    route-policy PASS out
    as-override
  !

```

RP/0/RP0/CPU0:PE-2#**show bgp vrf Yellow ipv4 unicast neighbors 172.16.50.2 routes**

```

Fri Jan 27 15:00:10.383 UTC
BGP VRF Yellow, state: Active
BGP Route Distinguisher: 200:200
VRF ID: 0x60000001
BGP router identifier 10.4.4.4, local AS number 8181
Non-stop routing is enabled
BGP table state: Active
Table ID: 0xe0000001  RD version: 64
BGP main routing table version 64
BGP NSR Initial initsync version 2 (Reached)
BGP NSR/ISSU Sync-Group versions 0/0

```

Status codes: s suppressed, d damped, h history, * valid, > best
 i - internal, r RIB-failure, S stale, N Nexthop-discard
 Origin codes: i - IGP, e - EGP, ? - incomplete

Network	Next Hop	Metric	LocPrf	Weight	Path
Route Distinguisher: 200:200 (default for vrf Yellow)					
*> 10.5.5.5/32	172.16.50.2	0		0	65535 ?
*> 10.22.22.22/32	172.16.50.2	10880		0	65535 ?
*> 10.66.66.66/32	172.16.50.2	0		0	65535 ?
*> 172.16.50.0/30	172.16.50.2	0		0	65535 ?
*> 192.168.4.0/24	172.16.50.2	0		0	65535 ?

Processed 5 prefixes, 5 paths

RP/0/RP0/CPU0:PE-2#**ping vrf Yellow 10.66.66.66**

```

Fri Jan 27 15:00:26.020 UTC
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.66.66.66, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 3/26/120 ms

```

來自PE-1、提供商和PE-2的路由資訊狀態

在本演示中，OSPF配置為IGP和iBGP。

PE-1

OSPF鄰居為UP，並且到作為路由反射器的10.3.3.3的iBGP會話為。

```
RP/0/RP0/CPU0:PE-1#show run router ospf
```

```
Fri Jan 27 15:09:23.910 UTC
router ospf 1
  router-id 10.2.2.2
  area 0
  !
  interface GigabitEthernet0/0/0/1
  !
  !
  !
```

```
RP/0/RP0/CPU0:PE-1#show ospf neighbor
```

```
Fri Jan 27 15:09:31.435 UTC
```

```
* Indicates MADJ interface
# Indicates Neighbor awaiting BFD session up
```

```
Neighbors for OSPF 1
```

Neighbor ID	Pri	State	Dead Time	Address	Interface
10.3.3.3	1	FULL/BDR	00:00:37	172.16.30.2	GigabitEthernet0/0/0/1

Neighbor is up for 16:59:30

```
Total neighbor count: 1
```

```
RP/0/RP0/CPU0:PE-1#show bgp vpv4 unicast summary
```

```
Fri Jan 27 15:09:37.760 UTC
BGP router identifier 10.2.2.2, local AS number 8181
BGP generic scan interval 60 secs
Non-stop routing is enabled
BGP table state: Active
Table ID: 0x0 RD version: 0
BGP main routing table version 73
BGP NSR Initial initsync version 2 (Reached)
BGP NSR/ISSU Sync-Group versions 0/0
BGP scan interval 60 secs
BGP is operating in STANDALONE mode.
```

Process	RcvTblVer	bRIB/RIB	LabelVer	ImportVer	SendTblVer	StandbyVer
Speaker	73	73	73	73	73	0

Neighbor	Spk	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down	St/PfxRcd
10.3.3.3	0	8181	1010	997	73	0	0	16:24:45	5

提供商路由器

在此裝置上，我們可以確認其充當路由反射器，且已建立與鄰居10.2.2.2和10.4.4.4的iBGP作業階段

```
RP/0/RP0/CPU0:Provider#show run router ospf
```

```
Fri Jan 27 15:19:33.250 UTC
router ospf 1
  router-id 10.3.3.3
  area 0
  !
  interface GigabitEthernet0/0/0/1
  !
  interface GigabitEthernet0/0/0/2
  !
```

```
RP/0/RP0/CPU0:Provider#show run router bgp
```

```
Fri Jan 27 15:11:08.321 UTC
```

```

router bgp 8181
  bgp router-id 10.3.3.3
  address-family ipv4 unicast
  !
  address-family vpnv4 unicast
  !
  neighbor-group IBGP
    remote-as 8181
    update-source Loopback0
  !
  neighbor 10.2.2.2
    use neighbor-group IBGP
    address-family vpnv4 unicast
    route-policy PASS in
    route-reflector-client
    route-policy PASS out
    next-hop-self
  !
  !
  neighbor 10.4.4.4
    use neighbor-group IBGP
    address-family vpnv4 unicast
    route-policy PASS in
    route-reflector-client
    route-policy PASS out
    next-hop-self
  !

```

RP/0/RP0/CPU0:Provider#**show bgp vpnv4 unicast summary**

Fri Jan 27 15:11:19.263 UTC

BGP router identifier 10.3.3.3, local AS number 8181

BGP generic scan interval 60 secs

Non-stop routing is enabled

BGP table state: Active

Table ID: 0x0 RD version: 0

BGP main routing table version 25

BGP NSR Initial initsync version 1 (Reached)

BGP NSR/ISSU Sync-Group versions 0/0

BGP scan interval 60 secs

BGP is operating in STANDALONE mode.

Process	RcvTblVer	bRIB/RIB	LabelVer	ImportVer	SendTblVer	StandbyVer
Speaker	25	25	25	25	25	0

Neighbor	Spk	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down	St/PfxRcd
10.2.2.2	0	8181	998	1011	25	0	0	16:26:27	5
10.4.4.4	0	8181	997	1009	25	0	0	16:24:25	5

PE-2

OSPF鄰居為up，且到路由反射器10.3.3.3的IBGP會話為up。

RP/0/RP0/CPU0:PE-2#**show run router ospf**

Fri Jan 27 15:12:47.741 UTC

router ospf 1

router-id 10.4.4.4

area 0

!

interface GigabitEthernet0/0/0/2

!

RP/0/RP0/CPU0:PE-2#**show ospf neighbor**

Fri Jan 27 15:12:55.229 UTC

* Indicates MADJ interface

```
# Indicates Neighbor awaiting BFD session up
Neighbors for OSPF 1
Neighbor ID      Pri   State             Dead Time   Address      Interface
10.3.3.3         1     FULL/DR           00:00:35   172.16.40.1 GigabitEthernet0/0/0/2
    Neighbor is up for 17:01:21
Total neighbor count: 1
```

```
RP/0/RP0/CPU0:PE-2#show bgp vpnv4 unicast summary
```

```
Fri Jan 27 15:13:01.911 UTC
BGP router identifier 10.4.4.4, local AS number 8181
BGP generic scan interval 60 secs
Non-stop routing is enabled
BGP table state: Active
Table ID: 0x0   RD version: 0
BGP main routing table version 64
BGP NSR Initial initsync version 2 (Reached)
BGP NSR/ISSU Sync-Group versions 0/0
BGP scan interval 60 secs
BGP is operating in STANDALONE mode.
```

Process	RcvTblVer	bRIB/RIB	LabelVer	ImportVer	SendTblVer	StandbyVer
Speaker	64	64	64	64	64	0

Neighbor	Spk	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down	St/PfxRcd
10.3.3.3	0	8181	1011	998	64	0	0	16:26:08	5

```
RP/0/RP0/CPU0:PE-2#ping 10.2.2.2 source loopback0
```

```
Fri Jan 27 15:13:09.728 UTC
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.2.2.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 9/21/67 ms
```

```
RP/0/RP0/CPU0:PE-2#ping 10.3.3.3 source loopback0
```

```
Fri Jan 27 15:13:16.696 UTC
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.3.3.3, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/6/7 ms
```

段路由配置

PE-1

```
RP/0/RP0/CPU0:PE-1#show run router ospf
```

```
Fri Jan 27 16:15:56.479 UTC
router ospf 1
  router-id 10.2.2.2
  segment-routing mpls
  area 0
    segment-routing mpls
  interface Loopback0
    prefix-sid index 15
!
```

提供商

```
RP/0/RP0/CPU0:Provider#show run router ospf
```

```
Fri Jan 27 16:17:09.471 UTC
router ospf 1
  router-id 10.3.3.3
  segment-routing mpls
```



```
area 0
  segment-routing mpls
  interface Loopback0
    prefix-sid index 16
  !
```

PE-2

```
RP/0/RP0/CPU0:PE-2#show run router ospf
```

```
Fri Jan 27 16:18:11.090 UTC
router ospf 1
  router-id 10.4.4.4
  segment-routing mpls
  area 0
    segment-routing mpls
    interface Loopback0
      prefix-sid index 17
  !
```

最終驗證

CE-1可以到達位於CE-2路由器上的介面loopback66。下一個Traceroute輸出顯示，當目的地為10.66.66.66字首時，資料包採用標籤交換路徑。還可以觀察到，標籤在通過路由器PE-2時使用字首sid 16017:

```
CE-1#ping 10.66.66.66 source loopback0
```

```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.66.66.66, timeout is 2 seconds:
Packet sent with a source address of 10.1.1.1
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 9/13/32 ms
```

```
CE-1#traceroute 10.66.66.66 source loopback0
```

```
Type escape sequence to abort.
Tracing the route to 10.66.66.66
VRF info: (vrf in name/id, vrf out name/id)
 1 172.16.20.2 6 msec 5 msec 5 msec
 2 172.16.30.2 [MPLS: Labels 16017/24003 Exp 0] 12 msec 13 msec 16 msec 3 172.16.40.2 [MPLS:
Label 24003 Exp 0] 15 msec 13 msec 12 msec
 4 172.16.50.2 [AS 8181] 13 msec 11 msec *
```

由於配置未使用絕對選項，因此標籤以16000值開始，並附加了為分段路由配置的字首sid。

```
RP/0/RP0/CPU0:PE-1#show cef 10.3.3.3/32
```

```
Fri Jan 27 21:32:42.813 UTC
10.3.3.3/32, version 43, labeled SR, internal 0x1000001 0x8110 (ptr 0xe3f6a00) [1], 0x600
(0xe593918), 0xa20 (0xee6e4b8)
Updated Jan 26 23:21:30.314
remote adjacency to GigabitEthernet0/0/0/1
Prefix Len 32, traffic index 0, precedence n/a, priority 1
gateway array (0xe3fbd8) reference count 3, flags 0x68, source rib (7), 0 backups
      [3 type 4 flags 0x8401 (0xeeb1648) ext 0x0 (0x0)]
LW-LDI[type=1, refc=1, ptr=0xe593918, sh-ldi=0xeeb1648]
gateway array update type-time 1 Jan 26 23:21:30.314
LDI Update time Jan 26 23:21:30.315
LW-LDI-TS Jan 26 23:21:30.315
  via 172.16.30.2/32, GigabitEthernet0/0/0/1, 8 dependencies, weight 0, class 0 [flags 0x0]
```

```
path-idx 0 NHID 0x0 [0xf427148 0xf4271e0]
next hop 172.16.30.2/32
remote adjacency
  local label 16016      labels imposed {ImplNull}
```

Load distribution: 0 (refcount 3)

```
Hash OK Interface Address
0 Y GigabitEthernet0/0/0/1 remote
```

RP/0/RP0/CPU0:PE-1#**show cef 10.4.4.4/32**

Fri Jan 27 21:29:36.990 UTC

10.4.4.4/32, version 45, labeled SR, internal 0x1000001 0x8110 (ptr 0xe3f65c0) [1], 0x600 (0xe593e70), 0xa28 (0xee6e508)

Updated Jan 26 23:21:47.181

remote adjacency to GigabitEthernet0/0/0/1

Prefix Len 32, traffic index 0, precedence n/a, priority 1

gateway array (0xe3fbe90) reference count 3, flags 0x68, source rib (7), 0 backups
[2 type 5 flags 0x8401 (0xeeb16a8) ext 0x0 (0x0)]

LW-LDI[type=5, refc=3, ptr=0xe593e70, sh-ldi=0xeeb16a8]

gateway array update type-time 1 Jan 26 23:21:47.182

LDI Update time Jan 26 23:21:47.182

LW-LDI-TS Jan 26 23:21:47.182

via 172.16.30.2/32, GigabitEthernet0/0/0/1, 6 dependencies, weight 0, class 0 [flags 0x0]

path-idx 0 NHID 0x0 [0xf4271e0 0x0]

next hop 172.16.30.2/32

remote adjacency

local label 16017 labels imposed {16017}

Load distribution: 0 (refcount 2)

```
Hash OK Interface Address
0 Y GigabitEthernet0/0/0/1 remote
```

從另一端，CE-2也可以到達位於CE-1路由器上的環回55:

CE-2#**ping 10.55.55.55 source loopback66**

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 10.55.55.55, timeout is 2 seconds:

Packet sent with a source address of 10.66.66.66

!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 11/12/15 ms

CE-2#**traceroute 10.55.55.55 source loopback66**

Type escape sequence to abort.

Tracing the route to 10.55.55.55

VRF info: (vrf in name/id, vrf out name/id)

1 172.16.50.1 6 msec 5 msec 4 msec

2 172.16.40.1 [MPLS: Labels 16015/24003 Exp 0] 9 msec 16 msec 10 msec

3 172.16.30.1 [MPLS: Label 24003 Exp 0] 10 msec 13 msec 8 msec

4 172.16.20.1 [AS 8181] 11 msec 7 msec *

MPLS標籤

在下一個輸出中，我們可以確認分段路由標籤用於端到端交換流量。

RP/0/RP0/CPU0:PE-1#**show mpls forwarding**

Fri Jan 27 20:32:13.697 UTC

Local Label	Outgoing Label	Prefix or ID	Outgoing Interface	Next Hop	Bytes Switched
16016	Pop	SR Pfx (idx 16)	Gi0/0/0/1	172.16.30.2	126880

16017	16017	SR Pfx (idx 17)	Gi0/0/0/1	172.16.30.2	17292
24000	Pop	SR Adj (idx 0)	Gi0/0/0/1	172.16.30.2	0
24001	Aggregate	172.16.20.0/30[V]	Yellow		11384
24002	Unlabelled	192.168.1.0/24[V]	Gi0/0/0/0	172.16.20.1	0
24003	Unlabelled	10.55.55.55/32[V]	Gi0/0/0/0	172.16.20.1	0
24004	Unlabelled	10.11.11.11/32[V]	Gi0/0/0/0	172.16.20.1	0
24005	Unlabelled	10.1.1.1/32[V]	Gi0/0/0/0	172.16.20.1	0

RP/0/RP0/CPU0:Provider#show mpls forwarding

Fri Jan 27 20:33:14.878 UTC

Local Label	Outgoing Label	Prefix or ID	Outgoing Interface	Next Hop	Bytes Switched
16015	Pop	SR Pfx (idx 15)	Gi0/0/0/1	172.16.30.1	151687
16017	Pop	SR Pfx (idx 17)	Gi0/0/0/2	172.16.40.2	147701
24000	Pop	SR Adj (idx 0)	Gi0/0/0/1	172.16.30.1	0
24001	Pop	SR Adj (idx 0)	Gi0/0/0/2	172.16.40.2	0

RP/0/RP0/CPU0:PE-2#show mpls forwarding

Fri Jan 27 20:33:49.201 UTC

Local Label	Outgoing Label	Prefix or ID	Outgoing Interface	Next Hop	Bytes Switched
16015	16015	SR Pfx (idx 15)	Gi0/0/0/2	172.16.40.1	25304
16016	Pop	SR Pfx (idx 16)	Gi0/0/0/2	172.16.40.1	128619
24000	Pop	SR Adj (idx 0)	Gi0/0/0/2	172.16.40.1	0
24001	Aggregate	172.16.50.0/30[V]	Yellow		1200
24002	Unlabelled	192.168.4.0/24[V]	Gi0/0/0/3	172.16.50.2	0
24003	Unlabelled	10.66.66.66/32[V]	Gi0/0/0/3	172.16.50.2	0
24004	Unlabelled	10.5.5.5/32[V]	Gi0/0/0/3	172.16.50.2	0
24005	Unlabelled	10.22.22.22/32[V]	Gi0/0/0/3	172.16.50.2	0

CE-2#show ip bgp neighbors 172.16.50.1 advertised-routes BGP table version is 5, local router ID is 5.5.5.5 Status codes: s suppressed, d damped, h history, * valid, > best, i - internal, r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter, x best-external, a additional-path, c RIB-compressed, t secondary path, Origin codes: i - IGP, e - EGP, ? - incomplete RPKI validation codes: V valid, I invalid, N Not found Network Next Hop Metric LocPrf Weight Path *> 5.5.5.5/32 0.0.0.0 0 32768 ? *> 22.22.22.22/32 192.168.4.1 10880 32768 ? *> 172.16.50.0/30 0.0.0.0 0 32768 ? *> 192.168.4.0 0.0.0.0 0 32768 ? Total number of prefixes 4

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。