

FTD BGP VPN IPsec ربيع نيوكت

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عمدق مل

ربيع (BGP) ةيدودحل ال ةرابع ال لوكوتوربل راوجل تاقال ع نيوكت ةيفيك دن تسمل اذ فصي نم FirePOWER (FTD) ديهت نع عافدل يتانق ني ع قوم ال IPsec ع قوم نم VPN ق فن Cisco.

ةيساس الابلط مل

تابلط مل

ةيلات ال عيضاوم لابل ةفرعم كيدل نوكت نأب Cisco ي صوت:

- فTD ال ع BGP تان نيوكت
- فTD ال ع IPsec ع قوم ال ع قوم نم VPN ق فن تان نيوكت

عمدختس مل تانوك مل

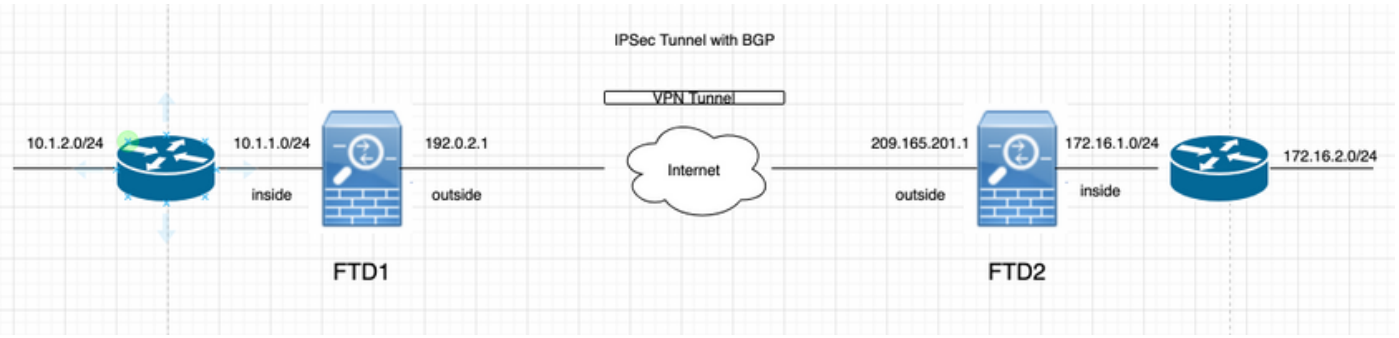
رادص ال لغشي يذل Cisco نم FTDv جم انرب ال دن تسمل اذ ف ةدراول تامول عم مل دن تسنت 6.4.0.7 و 6.4.0.9.

ةصاخ ةيلم عم ةئي ب ي ف ةدوجوم ال ةزهجال نم دن تسمل اذ ف ةدراول تامول عم مل عاشن ا م تناك اذ (يضا رتفا) حوسم نيوكت دن تسمل اذ ف عمدختس مل ةزهجال عي مج ت ادب رم ا ل مل تحم ال ري ثات ل ك م ه ف نم دكات ف ، ةرشابم كتك ب ش

نيوكت مل

IPSec قفن لالځ نم BGP راوځ ضرعل FTDs ىل ع بولطم لانيوكت لال مسق لال اذه فصري.

ةكبش لال يطي طخت لال مسر لال



IPSec VPN نيوكت

ةطقن ىل اةطقن نم ديځ VPN ططخم عاشن ا. 1. ةوطخلال

عافدل زاهځب ةصاخ ةديځ VPN ةكبش فضاو، عقوم ىل عقوم نم > VPN > ةزهجالا ىل لقتنا دض FirePOWER. ديدهت دض

Create New VPN Topology

Topology Name: *

Network Topology: Point to Point Hub and Spoke Full Mesh

IKE Version: * IKEv1 IKEv2

Endpoints | IKE | IPsec | Advanced

Node A: +

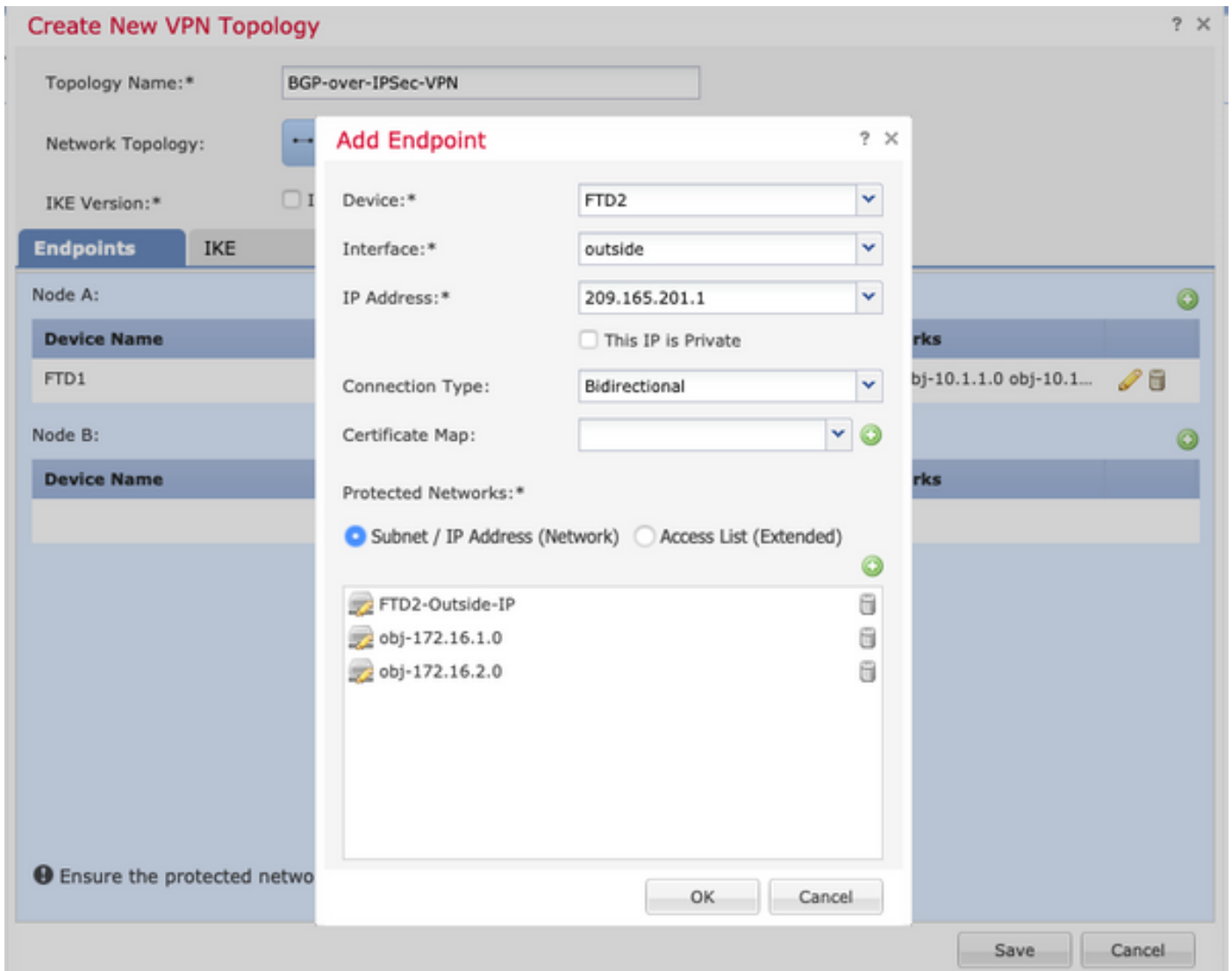
Device Name	VPN Interface	Protected Networks

Node B: +

Device Name	VPN Interface	Protected Networks

ⓘ Ensure the protected networks are allowed by access control policy of each device.

ةياهن لال طاقن دحاك FTD1 نيوكت ب مق. 2. ةوطخلال



- FTD2 ب صاخال لة جراخال لة هاولل IP ناووع لى لى فTD2-Outside-IP نئال لة كپش يوتحي
- و 172.16.1.0/24 لة عرفال لة كپش لى لى OBJ-172.16.1.0 و OBJ-172.16.2.0 نائال لة يوتحت تالكپش لة هذو نم VPN تاناي ب رورم لة كرش عاشنا متي . لى لواتل لى لى 172.16.2.0/24 لة عرفال تالكپش لة هذو نع نال لى لى لى BGP نى وكت متي ، انه BGP نى وكت مسق ي ف . لة عرفال لة اناريل لة عرفال

IKE تامل عم نى وكت ب مق . 4 ة وخال

1. IKEv2 جهن نى وكت ب مق .
2. (PSK/Certificate) ة قداصل لى بولسا نى وكت .

Create New VPN Topology

Topology Name:* BGP-over-IPSec-VPN

Network Topology: **Point to Point** Hub and Spoke Full Mesh

IKE Version:* IKEv1 IKEv2

Endpoints IKE IPsec Advanced

IKEv1 Settings

Policy:* preshared_sha_des_dh5_160

Authentication Type: Pre-shared Automatic Key

Pre-shared Key Length:* 24 Characters (Range 1-127)

IKEv2 Settings

Policy:* DES-SHA-SHA

Authentication Type: Pre-shared Manual Key

Key:* *****

Confirm Key:* *****

Enforce hex-based pre-shared key only

Save Cancel

5. ةوطخلال IPsec تاملعم نيوكتب مق .

1. (يكيما نيد واً تباث) ريفشلتلا ةطيرخ عون نيوكت .
2. (لقنلا واً قفنلا) IKEv2 عضو نيوكت .
3. IPsec تاحرتقم نيوكت .
4. (يرايتخا) هيچوتلا ةداعإل ةماتلا ةيرسلا نيكمت .
5. (يرايتخا) يسكعلال راسملا لاخدا نيكمت .

Create New VPN Topology

Topology Name: *

Network Topology: Point to Point Hub and Spoke Full Mesh

IKE Version: * IKEv1 IKEv2

Endpoints | IKE | **IPsec** | Advanced

Crypto Map Type: Static Dynamic

IKEv2 Mode:

Transform Sets:

IKEv1 IPsec Proposals

IKEv2 IPsec Proposals*

Enable Security Association (SA) Strength Enforcement

Enable Reverse Route Injection

Enable Perfect Forward Secrecy

Modulus Group:

Lifetime Duration*: Seconds (Range 120-2147483647)

Lifetime Size: Kbytes (Range 10-2147483647)

ESPv3 Settings

ةجأال بسح ةمدقتملأ تادادعإل نيكوتب مق 6 ةوطخلأ

Create New VPN Topology

Topology Name: *

Network Topology: Point to Point Hub and Spoke Full Mesh

IKE Version: * IKEv1 IKEv2

Endpoints | IKE | IPsec | **Advanced**

IKE

IPsec

Tunnel

ISAKAMP Settings

IKE Keepalive:

Threshold: Seconds (Range 10 - 3600)

Retry Interval: Seconds (Range 2 - 10)

Identity Sent to Peers:

Peer Identity Validation:

Enable Aggressive Mode

Enable Notification on Tunnel Disconnect

IKEv2 Security Association (SA) Settings

Cookie Challenge:

Threshold to Challenge Incoming Cookies: %

Number of SAs Allowed in Negotiation: %

Maximum number of SAs Allowed:

BGP نيوكت

FTD1 و FTD2 نيوكتل ءارجل او اذه

BGP > هيچوتل اىل لقتنا م، زاهجلا دحو زاهجلا قراد تحت

1. ءروصلل اذه يف حضورم وه امك، (AS) يتاذلل ماظنلل مقر نيوكت و BGP نيوكت تب مق.

OSPF

OSPFv3

RIP

BGP

IPv4

IPv6

Static Route

Multicast Routing

Enable BGP:

AS Number* (1-4294967295 or 1.0-65535.65535)

General

Router ID:

Number of AS numbers in AS_PATH attribute of received routes:

Log Neighbor Changes:

Use TCP path MTU discovery:

Reset session upon failover:

Enforce the first AS is peer's AS for EBGP routes:

Use dot notation for AS number:

Best Path Selection

Default local preference:

Allow comparing MED from different neighbors:

Compare Router ID for identical EBGP paths:

Pick the best-MED path among paths advertised by neighbor AS:

Treat missing MED as the best preferred path:

Neighbor Timers

Keepalive Interval:

Hold time:

Min hold time:

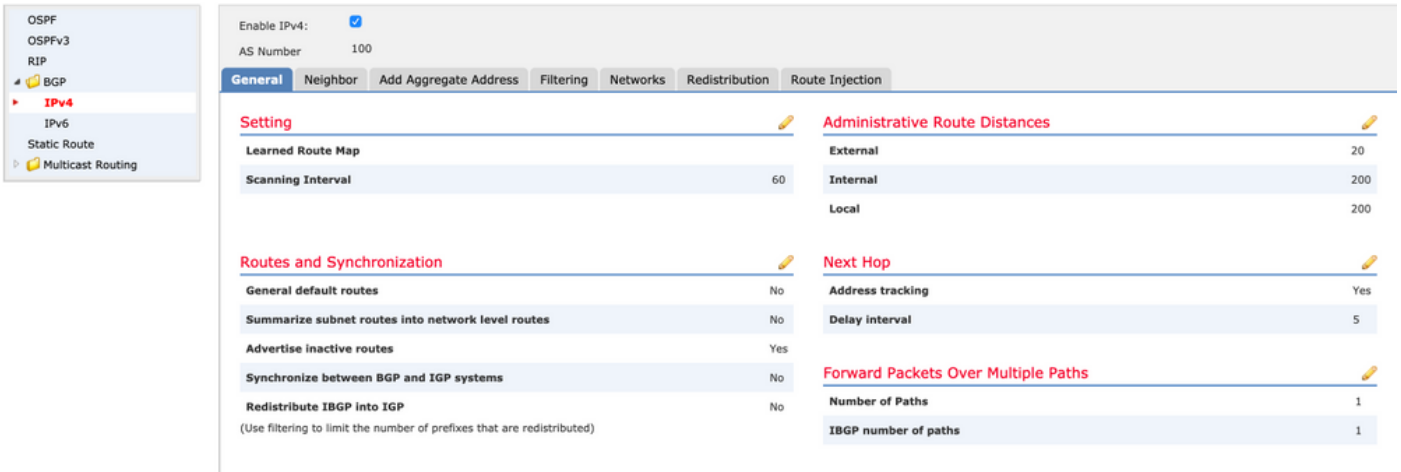
Graceful Restart (use in failover or spanned cluster mode)

Graceful Restart:

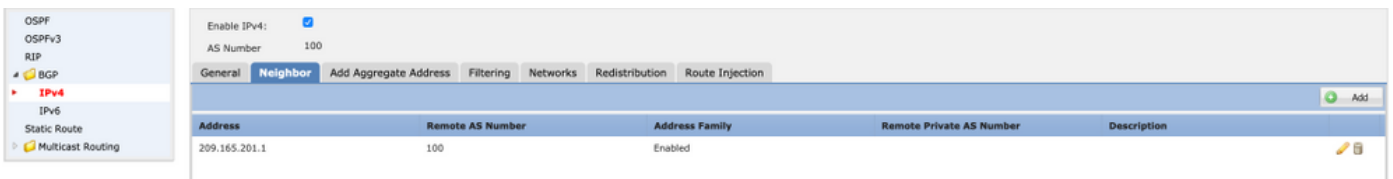
Restart time:

Stalepath time:

2. ءروصلل اذه يف حضورم وه امك، FTD اىل لقتنا م و BGP > IPv4 نيوكت تب مق و BGP > IPv4 اىل لقتنا م.



3. هذه هي فحوصات وهامك، راجعنا نيكمت وراجك رآلآ FTD فضا، راجعنا بيوبتلآ عمال ع تحت ة. ةرصلل



4. BGP لال خ نم اهنع نالعلال ديرت يتلآ تاكبشلآ فضا، تاكبشلآ بيوبتلآ عمال ع تحت ة.



5. كتئيب لاق فواهن يوكت كنكمي و ةيراي تخل رآلآ BGP تادادعل عي مج نوكت.

نيزاهلآ الك لعل يئاهنلآ نيوكتلآ

FTD1

```
!--- FTD Version ---! ftd1# show version -----[ ftd1 ]-----
Model : Cisco Firepower Threat Defense for VMWare (75) Version 6.4.0.7 (Build 53) UUID :
cbd4966c-daf4-11ea-8637-c8977622bc2d Rules update version : 2018-10-10-001-vrt VDB version : 309
----- Cisco Adaptive Security Appliance Software
Version 9.12(2)151 !--- Configure the Inside and outside interface ---! interface
GigabitEthernet0/0 nameif outside cts manual propagate sgt preserve-untag policy static sgt
disabled trusted security-level 0 ip address 192.0.2.1 255.255.255.0 ! interface
GigabitEthernet0/1 nameif inside cts manual propagate sgt preserve-untag policy static sgt
disabled trusted security-level 0 ip address 10.1.1.1 255.255.255.0 !--- Configure VPN ---! !---
Configure IPsec Policy ---! crypto ipsec ikev2 ipsec-proposal CSM_IP_1 protocol esp encryption
des protocol esp integrity sha-1 !--- Configure Crypto Map ---! crypto map CSM_outside_map 1
match address CSM_IPSEC_ACL_2 crypto map CSM_outside_map 1 set peer 209.165.201.1 crypto map
CSM_outside_map 1 set ikev2 ipsec-proposal CSM_IP_1 crypto map CSM_outside_map 1 set reverse-
route !--- Apply the Crypto Map to the outside interface ---! crypto map CSM_outside_map
interface outside !--- Configure IKEv2 policy ---! crypto ikev2 policy 80 encryption des
integrity sha group 5 prf sha lifetime seconds 86400 !--- Enable IKEv2 on the outside interface
---! crypto ikev2 enable outside !--- Configure BGP Router Process ---! router bgp 100 bgp log-
neighbor-changes bgp router-id 10.127.248.35 address-family ipv4 unicast neighbor 209.165.201.1
remote-as 100 neighbor 209.165.201.1 transport path-mtu-discovery disable neighbor 209.165.201.1
```



```
activate network 10.1.1.0 mask 255.255.255.0 network 10.1.2.0 mask 255.255.255.0 no auto-summary
no synchronization exit-address-family !!-- Configure the necessary routes ---! route outside
0.0.0.0 0.0.0.0 192.0.2.100 1 route inside 10.1.2.0 255.255.255.0 10.1.1.100 1
```

FTD2

```
!--- FTD Version ---! ftd2# show version -----[ ftd2 ]-----
Model : Cisco Firepower Threat Defense for VMWare (75) Version 6.4.0.9 (Build 62) UUID :
4ebe8e3a-dd8d-11ea-a599-a348a450d5ff Rules update version : 2018-10-10-001-vrt VDB version : 309
----- Cisco Adaptive Security Appliance Software
Version 9.12(2)33 !--- Configure the Inside and outside interface ---! interface
GigabitEthernet0/0 nameif outside cts manual propagate sgt preserve-untag policy static sgt
disabled trusted security-level 0 ip address 209.165.201.1 255.255.255.0 ! interface
GigabitEthernet0/1 nameif inside cts manual propagate sgt preserve-untag policy static sgt
disabled trusted security-level 0 ip address 172.16.1.1 255.255.255.0 !--- Configure VPN ---! -
-- Configure IPSec Policy ---! crypto ipsec ikev2 ipsec-proposal CSM_IP_1 protocol esp
encryption des protocol esp integrity sha-1 !--- Configure Crypto Map ---! crypto map
CSM_outside_map 2 match address CSM_IPSEC_ACL_2 crypto map CSM_outside_map 2 set peer 192.0.2.1
crypto map CSM_outside_map 2 set ikev2 ipsec-proposal CSM_IP_1 crypto map CSM_outside_map 2 set
reverse-route !--- Apply the Crypto Map to the outside interface ---! crypto map CSM_outside_map
interface outside !--- Configure IKEv2 policy ---! crypto ikev2 policy 80 encryption des
integrity sha group 5 prf sha lifetime seconds 86400 !--- Enable IKEv2 on the outside interface
---! crypto ikev2 enable outside !--- Configure BGP Router Process ---! router bgp 100 bgp log-
neighbor-changes bgp router-id 10.127.248.36 address-family ipv4 unicast neighbor 192.0.2.1
remote-as 100 neighbor 192.0.2.1 transport path-mtu-discovery disable neighbor 192.0.2.1
activate network 172.16.1.0 mask 255.255.255.0 network 172.16.2.0 mask 255.255.255.0 no auto-
summary no synchronization exit-address-family !--- Configure the necessary routes ---! route
outside 0.0.0.0 0.0.0.0 209.165.201.100 1 route inside 172.16.2.0 255.255.255.0 172.16.1.100 1
```

ةحصلنا نم ققحتلا

FTD1

```
!--- Check the IKEv2 sa with remote peer ---! ftd1# show crypto ikev2 sa IKEv2 SAs: Session-
id:34, Status:UP-ACTIVE, IKE count:1, CHILD count:1 Tunnel-id Local Remote Status Role 315310279
192.0.2.1/500 209.165.201.1/500 READY INITIATOR Encr: DES, Hash: SHA96, DH Grp:5, Auth sign:
PSK, Auth verify: PSK Life/Active Time: 86400/32514 sec Child sa: local selector 192.0.2.1/0 -
192.0.2.1/65535 remote selector 209.165.201.1/0 - 209.165.201.1/65535 ESP spi in/out:
0xd8ba0545/0x4b6beb6c !--- Check the IPSec sa with remote peer and check the number of encrypts
and decrypts---! ftd1# show crypto ipsec sa interface: outside Crypto map tag: CSM_outside_map,
seq num: 1, local addr: 192.0.2.1 access-list CSM_IPSEC_ACL_2 extended permit ip host 192.0.2.1
host 209.165.201.1 local ident (addr/mask/prot/port): (192.0.2.1/255.255.255.255/0/0) remote
ident (addr/mask/prot/port): (209.165.201.1/255.255.255.255/0/0) current_peer: 209.165.201.1
#pkts encaps: 1110, #pkts encrypt: 1110, #pkts digest: 1110 #pkts decaps: 1111, #pkts decrypt:
1111, #pkts verify: 1111 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 1110,
#pkts comp failed: 0, #pkts decomp failed: 0 #pre-frag successes: 0, #pre-frag failures: 0,
#fragments created: 0 #PMTUs sent: 0, #PMTUs rcvd: 0, #decapsulated frgs needing reassembly: 0
#TFC rcvd: 0, #TFC sent: 0 #Valid ICMP Errors rcvd: 0, #Invalid ICMP Errors rcvd: 0 #send
errors: 0, #recv errors: 0 local crypto endpt.: 192.0.2.1/500, remote crypto endpt.:
209.165.201.1/500 path mtu 1500, ipsec overhead 58(36), media mtu 1500 PMTU time remaining
(sec): 0, DF policy: copy-df ICMP error validation: disabled, TFC packets: disabled current
outbound spi: 4B6BEB6C current inbound spi : D8BA0545 inbound esp sas: spi: 0xD8BA0545
(3636069701) SA State: active transform: esp-des esp-sha-hmac no compression in use settings
={L2L, Tunnel, IKEv2, } slot: 0, conn_id: 1515, crypto-map: CSM_outside_map sa timing: remaining
key lifetime (kB/sec): (4101105/21619) IV size: 8 bytes replay detection support: Y Anti replay
bitmap: 0xFFFFFFFF 0xFFFFFFFF outbound esp sas: spi: 0x4B6BEB6C (1265363820) SA State: active
transform: esp-des esp-sha-hmac no compression in use settings ={L2L, Tunnel, IKEv2, } slot: 0,
conn_id: 1515, crypto-map: CSM_outside_map sa timing: remaining key lifetime (kB/sec):
(4239345/21619) IV size: 8 bytes replay detection support: Y Anti replay bitmap: 0x00000000
0x00000001 !--- Check the BGP router summary ---! ftd1# show bgp summary BGP router identifier
```

```

10.127.248.35, local AS number 100 BGP table version is 43, main routing table version 43 4
network entries using 800 bytes of memory 4 path entries using 320 bytes of memory 2/2 BGP
path/bestpath attribute entries using 416 bytes of memory 0 BGP route-map cache entries using 0
bytes of memory 0 BGP filter-list cache entries using 0 bytes of memory BGP using 1536 total
bytes of memory BGP activity 20/16 prefixes, 26/22 paths, scan interval 60 secs Neighbor V AS
MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd 209.165.201.1 4 100 494 488 43 0 0 09:01:15
2 !--- Check the BGP neighborhood ---! ftd1# show bgp neighbors BGP neighbor is 209.165.201.1,
context single_vf, remote AS 100, internal link BGP version 4, remote router ID 10.127.248.36
BGP state = Established, up for 09:01:18 Last read 00:00:52, last write 00:00:12, hold time is
180, keepalive interval is 60 seconds Neighbor sessions: 1 active, is not multisession capable
(disabled) Neighbor capabilities: Route refresh: advertised and received(new) Four-octets ASN
Capability: advertised and received Address family IPv4 Unicast: advertised and received
Multisession Capability: Message statistics: InQ depth is 0 OutQ depth is 0 Sent Rcvd Opens: 1 1
Notifications: 0 0 Updates: 3 3 Keepalives: 484 490 Route Refresh: 0 0 Total: 488 494 Default
minimum time between advertisement runs is 0 seconds For address family: IPv4 Unicast Session:
209.165.201.1 BGP table version 43, neighbor version 43/0 Output queue size : 0 Index 19 19
update-group member Sent Rcvd Prefix activity: ---- ---- Prefixes Current: 2 2 (Consumes 160
bytes) Prefixes Total: 2 2 Implicit Withdraw: 0 0 Explicit Withdraw: 0 0 Used as bestpath: n/a 2
Used as multipath: n/a 0 Outbound Inbound Local Policy Denied Prefixes: -----
Bestpath from this peer: 2 n/a Invalid Path: 1 n/a Total: 3 0 Number of NLRI in the update
sent: max 1, min 0 Address tracking is enabled, the RIB does have a route to 209.165.201.1
Connections established 2; dropped 1 Last reset 09:01:34, due to Peer closed the session of
session 1 Transport(tcp) path-mtu-discovery is disabled Graceful-Restart is disabled !--- Check
the routes learned from BGP ---! ftd1# sh route bgp Codes: L - local, C - connected, S - static,
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, V - VPN i - IS-IS, su - IS-IS summary, 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, + - replicated route Gateway of last resort is 192.0.2.100 to network
0.0.0.0 B 172.16.1.0 255.255.255.0 [200/0] via 209.165.201.1, 00:00:57 B 172.16.2.0
255.255.255.0 [200/0] via 172.16.1.100, 09:01:23

```

FTD2

```

!--- Check the IKEv2 sa with remote peer ---! ftd2# show crypto ikev2 sa IKEv2 SAs: Session-
id:34, Status:UP-ACTIVE, IKE count:1, CHILD count:1 Tunnel-id Local Remote Status Role 862624945
209.165.201.1/500 192.0.2.1/500 READY RESPONDER Encr: DES, Hash: SHA96, DH Grp:5, Auth sign:
PSK, Auth verify: PSK Life/Active Time: 86400/32429 sec Child sa: local selector 209.165.201.1/0
- 209.165.201.1/65535 remote selector 192.0.2.1/0 - 192.0.2.1/65535 ESP spi in/out:
0x4b6beb6c/0xd8ba0545 !--- Check the IPsec sa with remote peer and check the number of encrypts
and decrypts---! ftd2# show crypto ipsec sa interface: outside Crypto map tag: CSM_outside_map,
seq num: 2, local addr: 209.165.201.1 access-list CSM_IPSEC_ACL_2 extended permit ip host
209.165.201.1 host 192.0.2.1 local ident (addr/mask/prot/port):
(209.165.201.1/255.255.255.255/0/0) remote ident (addr/mask/prot/port):
(192.0.2.1/255.255.255.255/0/0) current_peer: 192.0.2.1 #pkts encaps: 1107, #pkts encrypt: 1107,
#pkts digest: 1107 #pkts decaps: 1106, #pkts decrypt: 1106, #pkts verify: 1106 #pkts compressed:
0, #pkts decompressed: 0 #pkts not compressed: 1107, #pkts comp failed: 0, #pkts decomp failed:
0 #pre-frag successes: 0, #pre-frag failures: 0, #fragments created: 0 #PMTUs sent: 0, #PMTUs
rcvd: 0, #decapsulated frgs needing reassembly: 0 #TFC rcvd: 0, #TFC sent: 0 #Valid ICMP Errors
rcvd: 0, #Invalid ICMP Errors rcvd: 0 #send errors: 0, #rcv errors: 0 local crypto endpt.:
209.165.201.1/500, remote crypto endpt.: 192.0.2.1/500 path mtu 1500, ipsec overhead 58(36),
media mtu 1500 PMTU time remaining (sec): 0, DF policy: copy-df ICMP error validation: disabled,
TFC packets: disabled current outbound spi: D8BA0545 current inbound spi : 4B6BEB6C inbound esp
sas: spi: 0x4B6BEB6C (1265363820) SA State: active transform: esp-des esp-sha-hmac no
compression in use settings ={L2L, Tunnel, IKEv2, } slot: 0, conn_id: 1516, crypto-map:
CSM_outside_map sa timing: remaining key lifetime (kB/sec): (4008945/21713) IV size: 8 bytes
replay detection support: Y Anti replay bitmap: 0xFFFFFFFF 0xFFFFFFFF outbound esp sas: spi:
0xD8BA0545 (3636069701) SA State: active transform: esp-des esp-sha-hmac no compression in use
settings ={L2L, Tunnel, IKEv2, } slot: 0, conn_id: 1516, crypto-map: CSM_outside_map sa timing:
remaining key lifetime (kB/sec): (4239345/21713) IV size: 8 bytes replay detection support: Y
Anti replay bitmap: 0x00000000 0x00000001 !--- Check the BGP router summary ---! ftd2# show bgp
summary BGP router identifier 10.127.248.36, local AS number 100 BGP table version is 44, main

```

```
routing table version 44 3 network entries using 600 bytes of memory 3 path entries using 240
bytes of memory 2/2 BGP path/bestpath attribute entries using 416 bytes of memory 0 BGP route-
map cache entries using 0 bytes of memory 0 BGP filter-list cache entries using 0 bytes of
memory BGP using 1256 total bytes of memory BGP activity 20/17 prefixes, 26/23 paths, scan
interval 60 secs Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd 192.0.2.1 4
100 486 492 44 0 0 08:59:40 2 !--- Check the BGP neighborship ---! ftd2# show bgp neighbors BGP
neighbor is 192.0.2.1, context single_vf, remote AS 100, internal link BGP version 4, remote
router ID 10.127.248.35 BGP state = Established, up for 08:59:42 Last read 00:00:53, last write
00:00:38, hold time is 180, keepalive interval is 60 seconds Neighbor sessions: 1 active, is not
multisession capable (disabled) Neighbor capabilities: Route refresh: advertised and
received(new) Four-octets ASN Capability: advertised and received Address family IPv4 Unicast:
advertised and received Multisession Capability: Message statistics: InQ depth is 0 OutQ depth
is 0 Sent Rcvd Opens: 1 1 Notifications: 0 0 Updates: 2 3 Keepalives: 489 482 Route Refresh: 0 0
Total: 492 486 Default minimum time between advertisement runs is 0 seconds For address family:
IPv4 Unicast Session: 192.0.2.1 BGP table version 44, neighbor version 44/0 Output queue size :
0 Index 19 19 update-group member Sent Rcvd Prefix activity: ---- ---- Prefixes Current: 1 2
(Consumes 160 bytes) Prefixes Total: 1 2 Implicit Withdraw: 0 0 Explicit Withdraw: 0 0 Used as
bestpath: n/a 2 Used as multipath: n/a 0 Outbound Inbound Local Policy Denied Prefixes: -----
----- Bestpath from this peer: 2 n/a Invalid Path: 2 n/a Total: 4 0 Number of NLRI in the
update sent: max 1, min 0 Address tracking is enabled, the RIB does have a route to 192.0.2.1
Connections established 2; dropped 1 Last reset 08:59:57, due to Peer closed the session of
session 1 Transport(tcp) path-mtu-discovery is disabled Graceful-Restart is disabled !--- Check
the routes learned from BGP ---! ftd2# show route bgp Codes: L - local, C - connected, S -
static, 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, V - VPN i - IS-IS, su - IS-IS summary, 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, + - replicated route Gateway of last resort is 209.165.201.100
to network 0.0.0.0 B 10.1.1.0 255.255.255.0 [200/0] via 192.0.2.1, 08:59:46 B 10.1.2.0
255.255.255.0 [200/0] via 10.1.1.100, 08:59:46
```

اهحال صإو عاطخأل فاشك تسإ

نېوكتلا اذهل اهحال صإو عاطخأل فاشك تسإل ةدح م تامولعم آي لاج رفوتت ال

ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومجم مادختساب دن تسمل اذه Cisco تچرت
ملاعلاء انءم ءي ف ني مدختسمل معد و تحم مي دقتل ءي رش بل او
امك ءق قء نوك ت نل ءي آل ءمچرت ل ضف أن ءظحال م ءرءي . ءصاأل م هتبل ب
Cisco ءلخت . فرتحم مچرت م اهم دق ي ءل ءي فارتحال ءمچرتل عم لال او ه
لإمءءاد ءوچرلاب ي صوءو تامچرتل هذه ءقءن ءه ءي ل وئسم Cisco
Systems (رفوتم طبارل) ي لصلأل يزي لچنل دن تسمل