

IKEv2 VRF対応SVTIの設定

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概要

このドキュメントでは、Internet Key Exchange(IKEv2)プロトコルを使用して、2つのバーチャルプライベートネットワーク(VPN)ピア間にVirtual Routing and Forwarding(VRF)対応のスタティック仮想トンネルインターフェイス(SVTI)を設定する設定例を紹介します。この設定には、ローカルサブネットが属するIVRFと、トンネル確立が発生するFront Door VRF(FVRF)が含まれます。

前提条件

要件

次の項目に関する知識があることを推奨します。

- IOS CLI設定に関する基礎知識
- IKEv2およびIPSECに関する基礎知識

使用するコンポーネント

このドキュメントの情報は、Cisco IOS®ソフトウェアリリース15.7が稼働するCisco IOS 2900シリーズルータに基づくものです。

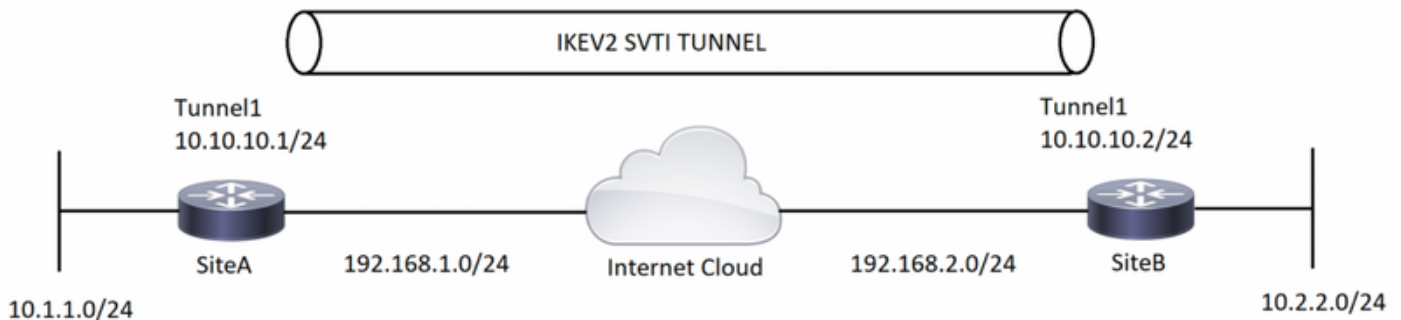
このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期(デフォルト)設定の状態から起動しています。ネットワークが稼働中である場合は、コマンドの潜在的な影響について理解しておく必要があります。

設定

このセクションでは、このドキュメントで説明する機能を設定するために必要な情報を提供して

います。

ネットワーク図



背景説明

VRF対応トンネルは、他の信頼できないコアネットワーク、または異なるインフラストラクチャを持つコアネットワークによって分離された顧客ネットワークを接続するために使用されます。この設定では、トンネルの送信元と宛先を、任意のVRFテーブルに属するように設定できます。トンネルインターフェイスでは、「vrf forwarding」コマンドを使用して、トンネルインターフェイスをその特定のルーティングテーブルに配置します。「tunnel vrf」コマンドを使用すると、ルータはトンネルの送信元と宛先のIPアドレスに指定されたVRFのルーティングテーブルを使用するように指示されます。

このドキュメントで使用する例では、ループバックインターフェイスVRFはLANセグメントVRFと似ています。このインターフェイスを通過するパケットは、このVRFを使用してルーティングされます。トンネルから出るパケットは、このVRFに転送されます。

「tunnel vrf」コマンドを使用してトンネルに設定されたVRFは、トランスポートVRFです。これは、カプセル化されたペイロードに適用されるVRFであり、トンネルエンドポイントの検索に使用されます。このVRFは、トンネルがパケットを送信する物理インターフェイスに関連付けられたVRFと同じです。

コンフィギュレーション

ステップ1:VRFを定義します。この例では、LANインターフェイスとWANインターフェイスに2つのVRFをそれぞれ「local」および「internet」という名前で定義します。

SiteA :

! — Defining vrf

```
vrf definition internet
rd 2:2
address-family ipv4
exit-address-family
```

```
vrf definition local
rd 1:1
address-family ipv4
exit-address-family
```

SiteB :

! — Defining vrf

```
vrf definition internet
 rd 2:2
  address-family ipv4
  exit-address-family
```

```
vrf definition local
 rd 1:1
  address-family ipv4
  exit-address-family
```

ステップ2:IKEv2トンネルを起動するために必要なパラメータを設定します。まず、IKEv2プロポーザルとキーリングの作成から始めます。次に、暗号キーリングが呼び出される場所にIKEv2プロファイルが設定され、暗号設定で終了するには、IPSECプロファイルにIPSECトランスフォームセットとIKEv2プロファイルが含まれます。

SiteA :

! — IKEv2 Proposal

```
crypto ikev2 proposal prop-1
 encryption aes-cbc-256
 integrity sha512
 group 5
```

! --- IKEv2 Policy

```
crypto ikev2 policy policy-1
 match fvrf internet
 match address local 192.168.1.1
 proposal prop-1
```

! — IKEv2 Keyring

```
crypto ikev2 keyring keyring-1
 peer ANY
  address 0.0.0.0 0.0.0.0
  pre-shared-key cisco123
```

! — IKEv2 Profile

```
crypto ikev2 profile IKEv2-Profile-1
 match fvrf internet
 match identity remote address 0.0.0.0
 authentication remote pre-share
 authentication local pre-share
 keyring local keyring-1
```

! — IPSEC Transform set

```
crypto ipsec transform-set transform-1 esp-aes 256 esp-sha-hmac
 mode transport
```

! — IPSEC Profile

```
crypto ipsec profile IPSEC-Profile-1
 set transform-set transform-1
 set ikev2-profile IKEv2-Profile-1
```

SiteB :

! — IKEv2 Proposal

```
crypto ikev2 proposal prop-1
  encryption aes-cbc-256
  integrity sha512
  group 5
```

! -- IKEv2 Policy

```
crypto ikev2 policy policy-1
match fvrfl internet
match address local 192.168.2.1
proposal prop-1 ! — IKEv2 Keyring
```

```
crypto ikev2 keyring keyring-1
  peer ANY
  address 0.0.0.0 0.0.0.0
  pre-shared-key cisco123
```

! — IKEv2 Profile

```
crypto ikev2 profile IKEv2-Profile-1
  match fvrfl internet
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local keyring-1
```

! — IPSEC Transform set

```
crypto ipsec transform-set transform-1 esp-aes 256 esp-sha-hmac
mode transport
```

! — IPSEC Profile

```
crypto ipsec profile IPSEC-Profile-1
  set transform-set transform-1
  set ikev2-profile IKEv2-Profile-1
```

ステップ3：必要なインターフェイスを設定します。この例では、ループバックインターフェイスは「ローカル」VRFの一部であり、対象トラフィックとして機能しています。「インターネット」VRFの一部である物理インターフェイスは、ISPに接続されたWANインターフェイスです。トンネルインターフェイスは、IPSECで暗号化されたGREカプセル化をトリガーします。

SiteA :

! — Interface Configuration

```
interface Loopback1
  vrf forwarding local
  ip address 10.1.1.1 255.255.255.0

interface Tunnel1
  vrf forwarding local
  ip address 10.10.10.1 255.255.255.0
  tunnel source 192.168.1.1
  tunnel destination 192.168.2.1
  tunnel key 777
```

```
tunnel vrf internet
tunnel protection ipsec profile IPSEC-Profile-1
```

```
interface GigabitEthernet0/0
vrf forwarding internet
ip address 192.168.1.1 255.255.255.0
```

SiteB :

! — Interface Configuration

```
interface Loopback1
vrf forwarding local
ip address 10.2.2.2 255.255.255.0
```

```
interface Tunnel1
vrf forwarding local
ip address 10.10.10.2 255.255.255.0
tunnel source 192.168.2.1
tunnel destination 192.168.1.1
tunnel key 777
tunnel vrf internet
tunnel protection ipsec profile IPSEC-Profile-1
```

```
interface GigabitEthernet0/0
vrf forwarding internet
ip address 192.168.2.1 255.255.255.0
```

ステップ 4 : VRF固有のルートを設定します。この設定では、「インターネット」VRFのルートは、物理インターフェイス (または実際の環境ではISP) のネクストホップを指すデフォルトルートとして設定されます。「ローカル」VRFの2番目のルートは、トンネルインターフェイスを指すリモートVPNサブネット用です。このサブネットは、最終的にトラフィックがトンネルインターフェイスを通過し、VPNをトリガーします。

SiteA :

! — VRF specific routes

```
ip route vrf internet 0.0.0.0 0.0.0.0 192.168.1.2
ip route vrf local 10.2.2.0 255.255.255.0 Tunnel1
```

SiteB :

! — VRF specific routes

```
ip route vrf internet 0.0.0.0 0.0.0.0 192.168.2.2
ip route vrf local 10.1.1.0 255.255.255.0 tunnel 1
```

確認

ここでは、設定が正しく機能していることを確認するために使用する情報を示します。

[Cisco CLI Analyzer](#)は、[特定の](#) show コマンドをサポートします。show コマンド出力の分析を表示するには、Cisco CLI アナライザを使用します。

SiteA :

```
SiteA#show crypto ikev2 sa
```

IPv4 Crypto IKEv2 SA

	Tunnel-id	Local	Remote	fvr/f/ivrf	Status
1	192.168.1.1/500	192.168.2.1/500	internet/local	READY	

Encr: AES-CBC, keysize: 256, PRF: SHA512, Hash: SHA512, DH Grp:5, Auth sign: PSK, Auth verify: PSK
Life/Active Time: 86400/128 sec

SiteA#show crypto ipsec sa detail

interface: Tunnell1

Crypto map tag: Tunnell1-head-0, local addr 192.168.1.1

protected vrf: local

local ident (addr/mask/prot/port): (192.168.1.1/255.255.255.255/47/0)

remote ident (addr/mask/prot/port): (192.168.2.1/255.255.255.255/47/0)

current_peer 192.168.2.1 port 500

PERMIT, flags={origin_is_acl,}

#pkts encaps: 25, #pkts encrypt: 25, #pkts digest: 25

#pkts decaps: 25, #pkts decrypt: 25, #pkts verify: 25

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0

#pkts not decompressed: 0, #pkts decompress failed: 0

#pkts no sa (send) 0, #pkts invalid sa (rcv) 0

#pkts encaps failed (send) 0, #pkts decaps failed (rcv) 0

#pkts invalid prot (rcv) 0, #pkts verify failed: 0

#pkts invalid identity (rcv) 0, #pkts invalid len (rcv) 0

#pkts replay rollover (send): 0, #pkts replay rollover (rcv) 0

##pkts replay failed (rcv): 0

#pkts tagged (send): 0, #pkts untagged (rcv): 0

#pkts not tagged (send): 0, #pkts not untagged (rcv): 0

#pkts internal err (send): 0, #pkts internal err (rcv) 0

local crypto endpt.: 192.168.1.1, remote crypto endpt.: 192.168.2.1

plaintext mtu 1458, path mtu 1500, ip mtu 1500, ip mtu idb GigabitEthernet0/0

current outbound spi: 0xE0B1BF6B(3769745259)

PFS (Y/N): N, DH group: none

inbound esp sas:

spi: 0xCA8E7D53(3398335827)

transform: esp-256-aes esp-sha-hmac ,

in use settings ={Transport, }

conn id: 2010, flow_id: Onboard VPN:10, sibling_flags 80000000, crypto map: Tunnell1-

head-0

sa timing: remaining key lifetime (k/sec): (4368363/3461)

IV size: 16 bytes

replay detection support: Y

Status: ACTIVE(ACTIVE)

inbound ah sas:

inbound pcp sas:

outbound esp sas:

spi: 0xE0B1BF6B(3769745259)

transform: esp-256-aes esp-sha-hmac ,

in use settings ={Transport, }

conn id: 2009, flow_id: Onboard VPN:9, sibling_flags 80000000, crypto map: Tunnell1-head-

0

sa timing: remaining key lifetime (k/sec): (4368363/3461)

IV size: 16 bytes

replay detection support: Y

Status: ACTIVE(ACTIVE)

outbound ah sas:

outbound pcp sas:

SiteA#show crypto session remote 192.168.2.1 detail

Crypto session current status

Code: C - IKE Configuration mode, D - Dead Peer Detection
K - Keepalives, N - NAT-traversal, T - cTCP encapsulation
X - IKE Extended Authentication, F - IKE Fragmentation
R - IKE Auto Reconnect, U - IKE Dynamic Route Update
S - SIP VPN

Interface: Tunnel1

Profile: IKEv2-Profile-1

Uptime: 00:02:35

Session status: **UP-ACTIVE**

Peer: 192.168.2.1 port 500 fvrf: internet ivrf: local

Phase1_id: 192.168.2.1

Desc: (none)

Session ID: 3

IKEv2 SA: local 192.168.1.1/500 remote 192.168.2.1/500 Active

Capabilities:(none) connid:1 lifetime:23:57:25

IPSEC FLOW: permit 47 host 192.168.1.1 host 192.168.2.1

Active SAs: 2, origin: crypto map

Inbound: #pkts dec'ed 25 drop 0 life (KB/Sec) 4368363/3444

Outbound: #pkts enc'ed 25 drop 0 life (KB/Sec) 4368363/3444

SiteB :

SiteB#show crypto ikev2 sa

IPv4 Crypto IKEv2 SA

	Tunnel-id	Local	Remote		fvrf/ivrf	Status
1	192.168.2.1/500		192.168.1.1/500		internet/local	READY

Encr: AES-CBC, keysize: 256, PRF: SHA512, Hash: SHA512, DH Grp:5, Auth sign: PSK, Auth verify: PSK
Life/Active Time: 86400/90 sec

SiteB#show crypto ipsec sa detail

interface: Tunnel1

Crypto map tag: Tunnel1-head-0, local addr 192.168.2.1

protected vrf: local

local ident (addr/mask/prot/port): (192.168.2.1/255.255.255.255/47/0)

remote ident (addr/mask/prot/port): (192.168.1.1/255.255.255.255/47/0)

current_peer 192.168.1.1 port 500

PERMIT, flags={origin_is_acl,}

#pkts encaps: 25, #pkts encrypt: 25, #pkts digest: 25

#pkts decaps: 25, #pkts decrypt: 25, #pkts verify: 25

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0

#pkts not decompressed: 0, #pkts decompress failed: 0

#pkts no sa (send) 0, #pkts invalid sa (rcv) 0

#pkts encaps failed (send) 0, #pkts decaps failed (rcv) 0

#pkts invalid prot (recv) 0, #pkts verify failed: 0

#pkts invalid identity (recv) 0, #pkts invalid len (rcv) 0

#pkts replay rollover (send): 0, #pkts replay rollover (rcv) 0

##pkts replay failed (rcv): 0

#pkts tagged (send): 0, #pkts untagged (rcv): 0

```
#pkts not tagged (send): 0, #pkts not untagged (rcv): 0
#pkts internal err (send): 0, #pkts internal err (recv) 0
```

```
local crypto endpt.: 192.168.2.1, remote crypto endpt.: 192.168.1.1
```

```
plaintext mtu 1458, path mtu 1500, ip mtu 1500, ip mtu idb GigabitEthernet0/0
current outbound spi: 0xCA8E7D53(3398335827)
PFS (Y/N): N, DH group: none
```

```
inbound esp sas:
```

```
spi: 0xE0B1BF6B(3769745259)
```

```
transform: esp-256-aes esp-sha-hmac ,
in use settings ={Transport, }
```

```
conn id: 2009, flow_id: Onboard VPN:9, sibling_flags 80000000, crypto map: Tunnel1-head-
```

```
0
```

```
sa timing: remaining key lifetime (k/sec): (4251213/3468)
```

```
IV size: 16 bytes
```

```
replay detection support: Y
```

```
Status: ACTIVE(ACTIVE)
```

```
inbound ah sas:
```

```
inbound pcp sas:
```

```
outbound esp sas:
```

```
spi: 0xCA8E7D53(3398335827)
```

```
transform: esp-256-aes esp-sha-hmac ,
in use settings ={Transport, }
```

```
conn id: 2010, flow_id: Onboard VPN:10, sibling_flags 80000000, crypto map: Tunnel1-
```

```
head-0
```

```
sa timing: remaining key lifetime (k/sec): (4251213/3468)
```

```
IV size: 16 bytes
```

```
replay detection support: Y
```

```
Status: ACTIVE(ACTIVE)
```

```
outbound ah sas:
```

```
outbound pcp sas:
```

```
SiteB#show crypto session remote 192.168.1.1 detail
```

```
Crypto session current status
```

```
Code: C - IKE Configuration mode, D - Dead Peer Detection
K - Keepalives, N - NAT-traversal, T - cTCP encapsulation
X - IKE Extended Authentication, F - IKE Fragmentation
R - IKE Auto Reconnect
```

```
Interface: Tunnel1
```

```
Profile: IKEv2-Profile-1
```

```
Uptime: 00:02:33
```

```
Session status: UP-ACTIVE
```

```
Peer: 192.168.1.1 port 500 fvrf: internet ivrf: local
```

```
Phase1_id: 192.168.1.1
```

```
Desc: (none)
```

```
Session ID: 4
```

```
IKEv2 SA: local 192.168.2.1/500 remote 192.168.1.1/500 Active
```

```
Capabilities:(none) connid:1 lifetime:23:57:27
```

```
IPSEC FLOW: permit 47 host 192.168.2.1 host 192.168.1.1
```

```
Active SAs: 2, origin: crypto map
```

```
Inbound: #pkts dec'ed 25 drop 0 life (KB/Sec) 4251213/3447
```

```
Outbound: #pkts enc'ed 25 drop 0 life (KB/Sec) 4251213/3447
```

トラブルシューティング

ここでは、設定のトラブルシューティングに使用できる情報を示します。デバッグ出力例も紹介しています。

トラブルシューティングのためのコマンド

注：debug コマンドを使用する前に、『debug コマンドの重要な情報』を参照してください。ルータに複数のトンネルが設定されている場合は、次の条件を使用できます。

- Debug crypto ikev2 internal
- Debug crypto ikev2 packet

debug 出力例

SiteA Debugs :

```
*Jul 16 05:30:50.731: IKEv2: Got a packet from dispatcher
*Jul 16 05:30:50.731: IKEv2: Processing an item off the pak queue
*Jul 16 05:30:50.731: IKEv2-INTERNAL:% Getting preshared key by address 192.168.2.1
*Jul 16 05:30:50.731: IKEv2-INTERNAL:Adding Proposal default to toolkit policy
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(1): Choosing IKE profile IKEv2-Profile-1
*Jul 16 05:30:50.731: IKEv2-INTERNAL:New ikev2 sa request admitted
*Jul 16 05:30:50.731: IKEv2-INTERNAL:Incrementing outgoing negotiating sa count by one

*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: IDLE Event: EV_INIT_SA
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_GET_IKE_POLICY
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_SET_POLICY
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Setting configured policies
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_CHK_AUTH4PKI
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_GEN_DH_KEY
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_NO_EVENT
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_OK_REC'D_DH_PUBKEY_RESP
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Action: Action_Null
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_GET_CONFIG_MODE
*Jul 16 05:30:50.791: IKEv2-INTERNAL:No config data to send to toolkit:
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_BLD_MSG
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Vendor Specific Payload: DELETE-REASON
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Vendor Specific Payload: CISCOVPN-REV-02
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Sending DRU Handshake
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(1): Sending custom vendor id : CISCO-DYNAMIC-ROUTE
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Vendor Specific Payload: (CUSTOM)
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Vendor Specific Payload: (CUSTOM)
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Notify Payload: NAT_DETECTION_SOURCE_IP
```

*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Notify Payload: NAT_DETECTION_DESTINATION_IP

*Jul 16 05:30:50.795: **IKEv2-PAK:(SESSION ID = 3,SA ID = 1):Next payload: SA, version: 2.0**
Exchange type: IKE_SA_INIT, flags: INITIATOR Message id: 0, length: 550

Payload contents:

SA Next payload: KE, reserved: 0x0, length: 144
last proposal: 0x0, reserved: 0x0, length: 140
Proposal: 1, Protocol id: IKE, SPI size: 0, #trans: 15 last transform: 0x3, reserved: 0x0:
length: 12
type: 1, reserved: 0x0, id: AES-CBC
last transform: 0x3, reserved: 0x0: length: 12
type: 1, reserved: 0x0, id: AES-CBC
last transform: 0x3, reserved: 0x0: length: 12
type: 1, reserved: 0x0, id: AES-CBC
last transform: 0x3, reserved: 0x0: length: 8
type: 2, reserved: 0x0, id: SHA512
last transform: 0x3, reserved: 0x0: length: 8
type: 2, reserved: 0x0, id: SHA384
last transform: 0x3, reserved: 0x0: length: 8
type: 2, reserved: 0x0, id: SHA256
last transform: 0x3, reserved: 0x0: length: 8
type: 2, reserved: 0x0, id: SHA1
last transform: 0x3, reserved: 0x0: length: 8
type: 2, reserved: 0x0, id: MD5
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA512
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA384
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA256
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA96
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: MD596
last transform: 0x3, reserved: 0x0: length: 8
type: 4, reserved: 0x0, id: DH_GROUP_1536_MODP/Group 5
last transform: 0x0, reserved: 0x0: length: 8
type: 4, reserved: 0x0, id: DH_GROUP_1024_MODP/Group 2
KE Next payload: N, reserved: 0x0, length: 200
DH group: 5, Reserved: 0x0
N Next payload: VID, reserved: 0x0, length: 36
VID Next payload: VID, reserved: 0x0, length: 23
VID Next payload: VID, reserved: 0x0, length: 19
VID Next payload: VID, reserved: 0x0, length: 23
VID Next payload: NOTIFY, reserved: 0x0, length: 21
NOTIFY(NAT_DETECTION_SOURCE_IP) Next payload: NOTIFY, reserved: 0x0, length: 28
Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_SOURCE_IP
NOTIFY(NAT_DETECTION_DESTINATION_IP) Next payload: NONE, reserved: 0x0, length: 28
Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_DESTINATION_IP

*Jul 16 05:30:50.931: **IKEv2-INTERNAL:Got a packet from dispatcher**

*Jul 16 05:30:50.931: **IKEv2-INTERNAL:Processing an item off the pak queue**

*Jul 16 05:30:50.939: **IKEv2-PAK:(SESSION ID = 3,SA ID = 1):Next payload: SA, version: 2.0**
Exchange type: IKE_SA_INIT, flags: RESPONDER MSG-RESPONSE Message id: 0, length: 431

Payload contents:

SA Next payload: KE, reserved: 0x0, length: 48
last proposal: 0x0, reserved: 0x0, length: 44
Proposal: 1, Protocol id: IKE, SPI size: 0, #trans: 4 last transform: 0x3, reserved: 0x0:
length: 12
type: 1, reserved: 0x0, id: AES-CBC
last transform: 0x3, reserved: 0x0: length: 8
type: 2, reserved: 0x0, id: SHA512

last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA512
last transform: 0x0, reserved: 0x0: length: 8
type: 4, reserved: 0x0, id: DH_GROUP_1536_MODP/Group 5
KE Next payload: N, reserved: 0x0, length: 200
DH group: 5, Reserved: 0x0
N Next payload: VID, reserved: 0x0, length: 36

*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Vendor Specific Payload: CISCO-DELETE-REASON
VID Next payload: VID, reserved: 0x0, length: 23

*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Vendor Specific Payload: CISCOVPN-REV VID Next
payload: VID, reserved: 0x0, length: 19

*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Vendor Specific Payload: (CUSTOM) VID Next payload:
NOTIFY, reserved: 0x0, length: 21

*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Notify Payload: NAT_DETECTION_SOURCE_IP
NOTIFY(NAT_DETECTION_SOURCE_IP) Next payload: NOTIFY, reserved: 0x0, length: 28
Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_SOURCE_IP

*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Notify Payload: NAT_DETECTION_DESTINATION_IP
NOTIFY(NAT_DETECTION_DESTINATION_IP) Next payload: NONE, reserved: 0x0, length: 28
Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_DESTINATION_IP

*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_WAIT_INIT Event:
EV_RECV_INIT

*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Processing IKE_SA_INIT message

*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_PROC_INIT Event:
EV_CHK4_NOTIFY

*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_PROC_INIT Event:
EV_VERIFY_MSG

*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_PROC_INIT Event:
EV_PROC_MSG

*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_PROC_INIT Event:
EV_DETECT_NAT

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Process NAT discovery notify

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Processing nat detect src notify

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Remote address matched

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Processing nat detect dst notify

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Local address matched

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):No NAT found

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_PROC_INIT Event:
EV_CHK_NAT_T

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_PROC_INIT Event:
EV_CHK_CONFIG_MODE

*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT_DONE Event:

EV_GEN_DH_SECRET

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT_DONE Event:
EV_NO_EVENT

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT_DONE Event:
EV_OK_REC'D_DH_SECRET_RESP

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Action: Action_Null

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT_DONE Event:

EV_GEN_SKEYID

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):**Generate skeyid**

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT_DONE Event: EV_DONE

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Cisco DeleteReason Notify is enabled

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT_DONE Event:

EV_CHK4_ROLE

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_BLD_AUTH Event:

EV_GET_CONFIG_MODE

*Jul 16 05:30:51.019: IKEv2-INTERNAL:Sending config data to toolkit

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_BLD_AUTH Event:

EV_CHK_EAP

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_BLD_AUTH Event:

EV_GEN_AUTH

*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_BLD_AUTH Event:

EV_CHK_AUTH_TYPE

*Jul 16 05:30:51.023: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_BLD_AUTH Event:

EV_OK_AUTH_GEN

*Jul 16 05:30:51.023: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I_BLD_AUTH Event:

EV_SEND_AUTH

*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Vendor Specific Payload: CISCO-GRANITE

*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: INITIAL_CONTACT

*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: USE_TRANSPORT_MODE

*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: SET_WINDOW_SIZE

*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: ESP_TFC_NO_SUPPORT

*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: NON_FIRST_FRAGS

Payload contents:

VID Next payload: IDi, reserved: 0x0, length: 20

IDi Next payload: AUTH, reserved: 0x0, length: 12

Id type: IPv4 address, Reserved: 0x0 0x0

AUTH Next payload: CFG, reserved: 0x0, length: 72

Auth method PSK, reserved: 0x0, reserved 0x0

CFG Next payload: SA, reserved: 0x0, length: 304

cfg type: CFG_REQUEST, reserved: 0x0, reserved: 0x0

*Jul 16 05:30:51.023: SA Next payload: TSi, reserved: 0x0, length: 44

last proposal: 0x0, reserved: 0x0, length: 40

Proposal: 1, Protocol id: ESP, SPI size: 4, #trans: 3 last transform: 0x3, reserved: 0x0: length: 12

type: 1, reserved: 0x0, id: AES-CBC

last transform: 0x3, reserved: 0x0: length: 8

type: 3, reserved: 0x0, id: SHA96

last transform: 0x0, reserved: 0x0: length: 8

type: 5, reserved: 0x0, id: Don't use ESN

TSi Next payload: TSr, reserved: 0x0, length: 24

Num of TSs: 1, reserved 0x0, reserved 0x0

TS type: TS_IPV4_ADDR_RANGE, proto id: 47, length: 16

start port: 0, end port: 65535

start addr: 192.168.1.1, end addr: 192.168.1.1

TSr Next payload: NOTIFY, reserved: 0x0, length: 24

Num of TSs: 1, reserved 0x0, reserved 0x0

TS type: TS_IPV4_ADDR_RANGE, proto id: 47, length: 16

start port: 0, end port: 65535

start addr: 192.168.2.1, end addr: 192.168.2.1

NOTIFY(INITIAL_CONTACT) Next payload: NOTIFY, reserved: 0x0, length: 8

Security protocol id: Unknown - 0, spi size: 0, type: INITIAL_CONTACT

NOTIFY(USE_TRANSPORT_MODE) Next payload: NOTIFY, reserved: 0x0, length: 8
Security protocol id: Unknown - 0, spi size: 0, type: USE_TRANSPORT_MODE
NOTIFY(SET_WINDOW_SIZE) Next payload: NOTIFY, reserved: 0x0, length: 12
Security protocol id: Unknown - 0, spi size: 0, type: SET_WINDOW_SIZE
NOTIFY(ESP_TFC_NO_SUPPORT) Next payload: NOTIFY, reserved: 0x0, length: 8
Security protocol id: Unknown - 0, spi size: 0, type: ESP_TFC_NO_SUPPORT
NOTIFY(NON_FIRST_FRAGS) Next payload: NONE, reserved: 0x0, length: 8
Security protocol id: Unknown - 0, spi size: 0, type: NON_FIRST_FRAGS

*Jul 16 05:30:51.023: **IKEv2-PAK:(SESSION ID = 3,SA ID = 1):Next payload: ENCR, version: 2.0**
Exchange type: IKE_AUTH, flags: INITIATOR Message id: 1, length: 640

Payload contents:

ENCR Next payload: VID, reserved: 0x0, length: 612

*Jul 16 05:30:51.023: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 1 CurState: I_WAIT_AUTH Event:
EV_NO_EVENT

*Jul 16 05:30:51.023: **IKEv2-INTERNAL:Got a packet from dispatcher**

*Jul 16 05:30:51.023: **IKEv2-INTERNAL:Processing an item off the pak queue**

*Jul 16 05:30:51.107: **IKEv2-PAK:(SESSION ID = 3,SA ID = 1):Next payload: ENCR, version: 2.0**
Exchange type: IKE_AUTH, flags: RESPONDER MSG-RESPONSE Message id: 1, length: 320

Payload contents:

*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Vendor Specific Payload: (CUSTOM) VID Next payload:
IDr, reserved: 0x0, length: 20

IDr Next payload: AUTH, reserved: 0x0, length: 12

Id type: IPv4 address, Reserved: 0x0 0x0

AUTH Next payload: SA, reserved: 0x0, length: 72

Auth method PSK, reserved: 0x0, reserved 0x0

SA Next payload: TSi, reserved: 0x0, length: 44

last proposal: 0x0, reserved: 0x0, length: 40

Proposal: 1, Protocol id: ESP, SPI size: 4, #trans: 3 last transform: 0x3, reserved: 0x0:
length: 12

type: 1, reserved: 0x0, id: AES-CBC

last transform: 0x3, reserved: 0x0: length: 8

type: 3, reserved: 0x0, id: SHA96

last transform: 0x0, reserved: 0x0: length: 8

type: 5, reserved: 0x0, id: Don't use ESN

TSi Next payload: TSr, reserved: 0x0, length: 24

Num of TSs: 1, reserved 0x0, reserved 0x0

TS type: TS_IPV4_ADDR_RANGE, proto id: 47, length: 16

start port: 0, end port: 65535

start addr: 192.168.1.1, end addr: 192.168.1.1

TSr Next payload: NOTIFY, reserved: 0x0, length: 24

Num of TSs: 1, reserved 0x0, reserved 0x0

TS type: TS_IPV4_ADDR_RANGE, proto id: 47, length: 16

start port: 0, end port: 65535

start addr: 192.168.2.1, end addr: 192.168.2.1

*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Notify Payload: USE_TRANSPORT_MODE
NOTIFY(USE_TRANSPORT_MODE) Next payload: NOTIFY, reserved: 0x0, length: 8
Security protocol id: Unknown - 0, spi size: 0, type: USE_TRANSPORT_MODE

*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Notify Payload: SET_WINDOW_SIZE
NOTIFY(SET_WINDOW_SIZE) Next payload: NOTIFY, reserved: 0x0, length: 12
Security protocol id: Unknown - 0, spi size: 0, type: SET_WINDOW_SIZE

*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Notify Payload: ESP_TFC_NO_SUPPORT
NOTIFY(ESP_TFC_NO_SUPPORT) Next payload: NOTIFY, reserved: 0x0, length: 8
Security protocol id: Unknown - 0, spi size: 0, type: ESP_TFC_NO_SUPPORT

*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Notify Payload: NON_FIRST_FRAGS

NOTIFY(NON_FIRST_FRAGS) Next payload: NONE, reserved: 0x0, length: 8
Security protocol id: Unknown - 0, spi size: 0, type: NON_FIRST_FRAGS

*Jul 16 05:30:51.111: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 1 CurState: I_WAIT_AUTH Event:
EV_RECV_AUTH
*Jul 16 05:30:51.111: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Action: Action_Null
*Jul 16 05:30:51.123: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 1 CurState: READY Event:
EV_CHK_IKE_ONLY
*Jul 16 05:30:51.123: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 1 CurState: READY Event: EV_I_OK
*Jul 16 05:30:52.011: SM Trace-> SA: I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1
CurState: AUTH_DONE Event: EV_CHK4_ROLE
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState: READY Event: EV_R_OK
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState: READY Event: EV_NO_E
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState:I_PROC_AUTH: **EV_VERIFY_AUTH**
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState:I_PROC_AUTH
EVENT:**EV_NOTIFY_AUTH_DONE**
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState:**AUTH_DONE** Event
EV_CHK4_ROLE
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState: **READY**Event:
EV_CHK_IKE_ONLY
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState: READYEvent: **EV_I_OK**

SiteB Debugs:

*Jul 16 06:01:45.231: **IKEv2-INTERNAL:Got a packet from dispatcher**
*Jul 16 06:01:45.231: **IKEv2-INTERNAL:Processing an item off the pak queue**

*Jul 16 06:01:45.231: **IKEv2-INTERNAL:New ikev2 sa request admitted**
*Jul 16 06:01:45.231: **IKEv2-INTERNAL:Incrementing incoming negotiating sa count by one**

*Jul 16 06:01:45.231: **IKEv2-PAK:Next payload: SA, version: 2.0 Exchange type: IKE_SA_INIT, flags: INITIATOR** Message id: 0, length: 550
Payload contents:
SA Next payload: KE, reserved: 0x0, length: 144
last proposal: 0x0, reserved: 0x0, length: 140
Proposal: 1, Protocol id: IKE, SPI size: 0, #trans: 15 last transform: 0x3, reserved: 0x0:
length: 12
type: 1, reserved: 0x0, id: AES-CBC
last transform: 0x3, reserved: 0x0: length: 12
type: 1, reserved: 0x0, id: AES-CBC
last transform: 0x3, reserved: 0x0: length: 8
type: 2, reserved: 0x0, id: SHA1
last transform: 0x3, reserved: 0x0: length: 12
type: 1, reserved: 0x0, id: AES-CBC
last transform: 0x3, reserved: 0x0: 1 last transform: 0x3, reserved: 0x0: length: 8
type: 2, reserved: 0x0, id: MD5
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA512
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA384
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA256

last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA96
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: MD596
last transform: 0x3, reserved: 0x0: length: 8
type: 4, reserved: 0x0, id: DH_GROUP_1536_MODP/Group 5
type: 2, reserved: 0x0, id: SHA512
last trans0x0, length: 23
KE Next payload: N, reserved: 0x0, length: 200
DH group: 5, Reserved: 0x0
N Next payload: VID, reserved: 0x0, length: 36

*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Vendor Specific Payload: CISCOVPN-REV VID Next payload: VID, reserved: 0x0, length: 19

*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Vendor Specific Payload: (CUSTOM) VID Next payload: VID, reserved: 0x0, length: 23

*Jul 16 06:01:45.231: IKEv2-INTERNAL:form: 0x3, reserved: 0x0: length: 8

*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Vendor Specific Payload: CISCO-DELETE-REASON VID Next payload: VID, reserved:

*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Notify Payload: NAT_DETECTION_SOURCE_IP NOTIFY(NAT_DETECTION_SOURCE_IP) Next payload: NOTIFY, reserved: 0x0, length: 28
Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_SOURCE_IP

*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Notify Payload: NAT_DETECTION_DESTINATION_IP NOTIFY(NAT_DETECTION_DESTINATION_IP) Next payload: NONE, reserved: 0x0, length: 28
Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_DESTINATION_IP

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: IDLE Event: **EV_RECV_INIT**

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_INIT Event:

EV_VERIFY_MSG

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_INIT Event: **EV_INSERT_SA**

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_INIT Event:

EV_GET_IKE_POLICY

*Jul 16 06:01:45.231: IKEv2-INTERNAL:Adding Proposal default to toolkit policy

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_INIT Event: **EV_PROC_MSG**

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_INIT Event:

EV_DETECT_NAT

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Process NAT discovery notify
*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Processing nat detect src notify

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Remote address matched

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Processing nat detect dst notify

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Local address matched

*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):No NAT found

*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_INIT Event:

EV_CHK_CONFIG_MODE

*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:

EV_SET_POLICY

*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):**Setting configured policies**

*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:

EV_CHK_AUTH4PKI

*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:

EV_GEN_DH_KEY

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*Jul 16 06:01:45.295: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_NO_EVENT
*Jul 16 06:01:45.295: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_OK_REC'D_DH_PUBKEY_RESP
*Jul 16 06:01:45.295: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Action: Action_Null
*Jul 16 06:01:45.295: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_GEN_DH_SECRET
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_NO_EVENT
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_OK_REC'D_DH_SECRET_RESP
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Action: Action_Null
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_GEN_SKEYID
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Generate skeyid
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_GET_CONFIG_MODE
*Jul 16 06:01:45.371: IKEv2-INTERNAL:No config data to send to toolkit:
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_BLD_MSG
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Vendor Specific Payload: DELETE-REASON
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Vendor Specific Payload: CISCOVPN-REV-02
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Vendor Specific Payload: (CUSTOM)
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Notify Payload: NAT_DETECTION_SOURCE_IP
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Notify Payload: NAT_DETECTION_DESTINATION_IP

*Jul 16 06:01:45.371: IKEv2-PAK:(SESSION ID = 4,SA ID = 1):Next payload: SA, version: 2.0
Exchange type: IKE_SA_INIT, flags: RESPONDER MSG-RESPONSE Message id: 0, length: 431
Payload contents:
SA Next payload: KE, reserved: 0x0, length: 48
  last proposal: 0x0, reserved: 0x0, length: 44
  Proposal: 1, Protocol id: IKE, SPI size: 0, #trans: 4    last transform: 0x3, reserved: 0x0:
length: 12
    type: 1, reserved: 0x0, id: AES-CBC
    last transform: 0x3, reserved: 0x0: length: 8
    type: 2, reserved: 0x0, id: SHA512
    last transform: 0x3, reserved: 0x0: length: 8
    type: 3, reserved: 0x0, id: SHA512
    last transform: 0x0, reserved: 0x0: length: 8
    type: 4, reserved: 0x0, id: DH_GROUP_1536_MODP/Group 5
KE Next payload: N, reserved: 0x0, length: 200
  DH group: 5, Reserved: 0x0
N Next payload: VID, reserved: 0x0, length: 36
VID Next payload: VID, reserved: 0x0, length: 23
VID Next payload: VID, reserved: 0x0, length: 19
VID Next payload: NOTIFY, reserved: 0x0, length: 21
NOTIFY(NAT_DETECTION_SOURCE_IP) Next payload: NOTIFY, reserved: 0x0, length: 28
  Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_SOURCE_IP
NOTIFY(NAT_DETECTION_DESTINATION_IP) Next payload: NONE, reserved: 0x0, length: 28
  Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_DESTINATION_IP

*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: INIT_DONE Event: EV_DONE
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Cisco DeleteReason Notify is
enabled
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:

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I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: INIT_DONE Event:
EV_CHK4_ROLE
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: INIT_DONE Event:
EV_START_TMR
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_WAIT_AUTH Event:
EV_NO_EVENT
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):New ikev2 sa request admitted
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Incrementing outgoing
negotiating sa count by one

*Jul 16 06:01:45.390: **IKEv2-INTERNAL:Got a packet from dispatcher**
*Jul 16 06:01:45.390: **IKEv2-INTERNAL:Processing an item off the pak queue**

*Jul 16 06:01:45.375: **IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Next payload: ENCR, version: 2.0**
Exchange type: IKE_AUTH, flags: INITIATOR Message id: 1, length: 556
Payload contents:
*Jul 16 06:01:45.375: IKEv2-INTERNAL:Parse Vendor Specific Payload: (CUSTOM) VID Next payload:
IDi, reserved: 0x0, length: 20
Payload contents:
IDi Next payload: AUTH, reserved: 0x0, length: 12
Id type: IPv4 address, Reserved: 0x0 0x0
AUTH Next payload: CFG, reserved: 0x0, length: 72
Auth method PSK, reserved: 0x0, reserved 0x0
CFG Next payload: SA, reserved: 0x0, length: 304
cfg type: CFG_REQUEST, reserved: 0x0, reserved: 0x0
SA Next payload: TSi, reserved: 0x0, length: 44
last proposal: 0x0, reserved: 0x0, length: 40
Proposal: 1, Protocol id: ESP, SPI size: 4, #trans: 3 last transform: 0x3, reserved: 0x0:
length: 12
type: 1, reserved: 0x0, id: AES-CBC
last transform: 0x3, reserved: 0x0: length: 8
type: 3, reserved: 0x0, id: SHA96
last transform: 0x0, reserved: 0x0: length: 8
type: 5, reserved: 0x0, id: Don't use ESN
TSi Next payload: TSr, reserved: 0x0, length: 24
Num of TSs: 1, reserved 0x0, reserved 0x0
TS type: TS_IPV4_ADDR_RANGE, proto id: 47, length: 16
start port: 0, end port: 65535
start addr: 192.168.1.1, end addr: 192.168.1.1
TSr Next payload: NOTIFY, reserved: 0x0, length: 24
Num of TSs: 1, reserved 0x0, reserved 0x0
TS type: TS_IPV4_ADDR_RANGE, proto id: 47, length: 16
start port: 0, end port: 65535
start addr: 192.168.2.1, end addr: 192.168.2.1

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_RECV_AUTH
*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_CHK_NAT_T
*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_PROC_ID
*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Received valid parameteres in
process id
*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_CHK_IF_PEER_CERT_NEEDS_TO_BE_FETCHED_FOR_PROF_SEL
*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_GET_POLICY_BY_PEERID

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_SET_POLICY

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Setting configured policies

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_VERIFY_POLICY_BY_PEERID

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_CHK_AUTH4EAP

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_WAIT_AUTH Event:
EV_CHK_POLREQEAP

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_CHK_AUTH_TYPE

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_GET_PRESHR_KEY

*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_VERIFY_AUTH

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_CHK4_IC

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace->SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_CHK_REDIRECT

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Redirect check is not needed,
skipping it

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_NOTIFY_AUTH_DONE

*Jul 16 06:01:45.467: IKEv2-INTERNAL:AAA group authorization is not configured

*Jul 16 06:01:45.467: IKEv2-INTERNAL:AAA user authorization is not configured

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_CHK_CONFIG_MODE

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_SET_RECD_CONFIG_MODE

*Jul 16 06:01:45.467: IKEv2-INTERNAL:Received config data from toolkit:

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_CHK_GKM

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_CHK_DIKE

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_PROC_SA_TS

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_NO_EVENT

*Jul 16 06:01:45.467: IPSEC(ipsec_get_crypto_session_id): Invalid Payload Id

*Jul 16 06:01:45.467: IKEv2-INTERNAL:IPSEC accepted group 0

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_POLICY_NEGOTIATED

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Action: Action_Null

*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_VERIFY_AUTH Event:
EV_GET_CONFIG_MODE

*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_BLD_AUTH Event:
EV_MY_AUTH_METHOD

*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_BLD_AUTH Event:
EV_GET_PRESHR_KEY

*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_BLD_AUTH Event:

EV_GEN_AUTH

*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_BLD_AUTH Event:
EV_CHK4_SIGN

*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_BLD_AUTH Event:
EV_OK_AUTH_GEN

*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R_BLD_AUTH Event:
EV_SEND_AUTH

*Jul 16 06:01:45.471: IKEv2-INTERNAL:Construct Vendor Specific Payload: CISCO-GRANITE

*Jul 16 06:01:45.471: IKEv2-INTERNAL:Construct Notify Payload: USE_TRANSPORT_MODE

*Jul 16 06:01:45.471: IKEv2-INTERNAL:Construct Notify Payload: SET_WINDOW_SIZE

*Jul 16 06:01:45.471: IKEv2-INTERNAL:Construct Notify Payload: ESP_TFC_NO_SUPPORT

*Jul 16 06:01:45.471: IKEv2-INTERNAL:Construct Notify Payload: NON_FIRST_FRAGS

*Jul 16 06:01:45.471: **IKEv2-PAK:(SESSION ID = 4,SA ID = 1):Next payload: ENCR, version: 2.0**

Exchange type: IKE_AUTH, flags: RESPONDER MSG-RESPONSE Message id: 1, length: 320

Payload contents:

VID Next payload: IDr, reserved: 0x0, length: 20

IDr Next payload: AUTH, reserved: 0x0, length: 12

Id type: IPv4 address, Reserved: 0x0 0x0

AUTH Next payload: SA, reserved: 0x0, length: 72

Auth method PSK, reserved: 0x0, reserved 0x0

SA Next payload: TSi, reserved: 0x0, length: 44

last proposal: 0x0, reserved: 0x0, length: 40

Proposal: 1, Protocol id: ESP, SPI size: 4, #trans: 3 last transform: 0x3, reserved: 0x0:
length: 12

type: 1, reserved: 0x0, id: AES-CBC

last transform: 0x3, reserved: 0x0: length: 8

type: 3, reserved: 0x0, id: SHA96

last transform: 0x0, reserved: 0x0: length: 8

type: 5, reserved: 0x0, id: Don't use ESN

TSi Next payload: TSr, reserved: 0x0, length: 24

Num of TSs: 1, reserved 0x0, reserved 0x0

TS type: TS_IPV4_ADDR_RANGE, proto id: 47, length: 16

start port: 0, end port: 65535

start addr: 192.168.1.1, end addr: 192.168.1.1

TSr Next payload: NOTIFY, reserved: 0x0, length: 24

Num of TSs: 1, reserved 0x0, reserved 0x0

TS type: TS_IPV4_ADDR_RANGE, proto id: 47, length: 16

start port: 0, end port: 65535

start addr: 192.168.2.1, end addr: 192.168.2.1

NOTIFY(USE_TRANSPORT_MODE) Next payload: NOTIFY, reserved: 0x0, length: 8

Security protocol id: Unknown - 0, spi size: 0, type: USE_TRANSPORT_MODE

NOTIFY(SET_WINDOW_SIZE) Next payload: NOTIFY, reserved: 0x0, length: 12

Security protocol id: Unknown - 0, spi size: 0, type: SET_WINDOW_SIZE

NOTIFY(ESP_TFC_NO_SUPPORT) Next payload: NOTIFY, reserved: 0x0, length: 8

Security protocol id: Unknown - 0, spi size: 0, type: ESP_TFC_NO_SUPPORT

NOTIFY(NON_FIRST_FRAGS) Next payload: NONE, reserved: 0x0, length: 8

Security protocol id: Unknown - 0, spi size: 0, type: NON_FIRST_FRAGS

ENCR Next payload: VID, reserved: 0x0, length: 292

*Jul 16 06:01:45.479: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: **AUTH_DONE** Event:
EV_CHECK_DUPE

*Jul 16 06:01:45.479: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: AUTH_DONE Event:
EV_CHK4_ROLE

*Jul 16 06:01:45.479: IKEv2-INTERNAL: (SESSION ID = 4, SA ID = 1):SM Trace-> SA:

I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: **READY** Event: **EV_R_OK**

參考資料

<https://community.cisco.com/t5/security-documents/vrf-aware-ipsec-cheat-sheet/ta-p/3109449>

https://www.cisco.com/c/en/us/td/docs/ios/sec_secure_connectivity/configuration/guide/convert/sec_ike_for_ipsec_vpns_15_1_book/sec_vrf_aware_ipsec.html

https://www.cisco.com/c/en/us/td/docs/ios/sec_secure_connectivity/configuration/guide/convert/sec_ike_for_ipsec_vpns_15_1_book/sec_cfg_ikev2.html

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