

IOS Easy VPN リモート ハードウェア クライアントと PIX Easy VPN サーバの設定例

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概要

この資料は Cisco IOS® Easy VPN Remote ハードウェアクライアントと PIX Easy VPN Server 間の IPsec に設定例を提供したものです。

注: Easy VPN リモートの機能は、ハードウェア クライアントおよび EzVPN クライアントとも呼ばれます。

Cisco IOS ルータを Cisco VPN 3000 コンセントレータに接続するために設定する方法の情報に関しては [VPN 3000 コンセントレータ 設定例の IOS ルータの NEM の EzVPN をようにネットワーク拡張モード \(NEM\)](#) の EzVPN 参照して下さい。

Cisco PIX セキュリティ アプライアンス ソフトウェア バージョン 7.x または Cisco 適応型セキュリティ アプライアンス (ASA) で、Open Shortest Path First (OSPF) を使用して GRE トンネルのない VPN/IPsec を設定する方法の詳細については、[PIX/ASA 7.x 以降: サーバとして分割トンネリング ASA 5500 および Easy VPN を使用して Cisco PIX/ASA 7.x および Cisco 871 ルータ間の IPsec を設定する方法の情報のための Easy VPN リモート設定例として Cisco 871 との Easy VPN](#)。

[IOS ルータを参照して下さい](#): EzVPN で Cisco 7200 ルータおよび Easy VPN Remote クライアントで Cisco 871 ルータを設定する方法の情報のための [ネットワーク拡張モード \(NEM\) 設定例の Easy VPN \(EzVPN\)](#)。

前提条件

要件

この設定を行う前に、次の要件が満たされていることを確認します。

- 使用している Cisco IOS およびハードウェアが、Easy VPN リモート機能をサポートしている。[Software Advisor](#) ([登録ユーザのみ](#)) を参照して下さい。
- 使用している Easy VPN サーバは、PIX ソフトウェア バージョン 6.2 以降が稼働している PIX ファイアウォールである。
- 使用している PIX に 3DES ライセンスがインストールされている。[アップグレードをアクティベーション キー](#)参照して下さい。

使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づくものです。

- Cisco IOS Easy VPN リモートハードウェア クライアントは Cisco IOS ソフトウェア リリース 12.3(8)T を実行する 831 ルータです。
- Easy VPN Server は PIX 525 です PIXソフトウェアバージョン 6.3(3) を実行する。

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たものです。このドキュメントで使用するすべてのデバイスは、クリアな (デフォルト) 設定で作業を開始しています。ネットワークが稼働中の場合は、コマンドが及ぼす潜在的な影響を十分に理解しておく必要があります。

表記法

ドキュメント表記の詳細は、『[シスコテクニカルティップスの表記法](#)』を参照してください。

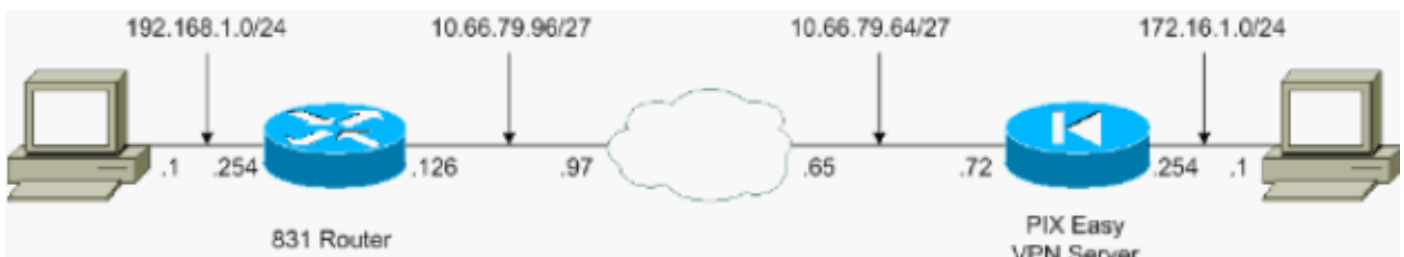
設定

この項では、このドキュメントで説明する機能の設定に必要な情報を提供します。

注: このセクションで使用されているコマンドの詳細を調べるには、[Command Lookup Tool](#) ([登録ユーザ専用](#)) を使用してください。

ネットワーク図

このドキュメントでは、次のネットワーク構成を使用しています。



設定

このドキュメントでは、次の設定を使用します。

- [PIX Easy VPN サーバ](#)
- [Cisco IOS Easy VPN リモート ハードウェア クライアント](#)

PIX Easy VPN サーバ

```
pix525#show running-config : Saved : PIX Version 6.3(3)
interface ethernet0 auto interface ethernet1 auto
interface ethernet2 auto shutdown interface ethernet3
auto shutdown interface ethernet4 auto shutdown
interface ethernet5 auto shutdown interface ethernet6
auto shutdown nameif ethernet0 outside security0 nameif
ethernet1 inside security100 nameif ethernet2 intf2
security4 nameif ethernet3 intf3 security6 nameif
ethernet4 intf4 security8 nameif ethernet5 intf5
security10 nameif ethernet6 intf6 security12 enable
password 8Ry2YjIyt7RRXU24 encrypted passwd
2KFQnbNIdI.2KYOU encrypted hostname pix525 fixup
protocol dns maximum-length 512 fixup protocol ftp 21
fixup protocol h323 h225 1720 fixup protocol h323 ras
1718-1719 fixup protocol http 80 fixup protocol rsh 514
fixup protocol rtsp 554 fixup protocol sip 5060 fixup
protocol sip udp 5060 fixup protocol skinny 2000 fixup
protocol smtp 25 fixup protocol sqlnet 1521 fixup
protocol tftp 69 names !--- Specify the access list to
bypass !--- Network Address Translation (NAT) for VPN
traffic. access-list nonat permit ip 172.16.1.0
255.255.255.0 192.168.1.0 255.255.255.0 !--- Specify the
split tunneling access list. access-list 110 permit ip
172.16.1.0 255.255.255.0 192.168.1.0 255.255.255.0 pager
lines 24 mtu outside 1500 mtu inside 1500 mtu intf2 1500
mtu intf3 1500 mtu intf4 1500 mtu intf5 1500 mtu intf6
1500 ip address outside 10.66.79.72 255.255.255.224 ip
address inside 172.16.1.254 255.255.255.0 no ip address
intf2 no ip address intf3 no ip address intf4 no ip
address intf5 no ip address intf6 ip audit info action
alarm ip audit attack action alarm no failover failover
timeout 0:00:00 failover poll 15 no failover ip address
outside no failover ip address inside no failover ip
address intf2 no failover ip address intf3 no failover
ip address intf4 no failover ip address intf5 no
failover ip address intf6 pdm history enable arp timeout
14400 !--- Configure NAT/Port Address Translation (PAT)
!--- for non-encrypted traffic, as well as NAT for IPSec
traffic. global (outside) 1 interface nat (inside) 0
access-list nonat nat (inside) 1 172.16.1.0
255.255.255.0 0 0 route outside 0.0.0.0 0.0.0.0
10.66.79.65 1 timeout xlate 3:00:00 timeout conn 1:00:00
half-closed 0:10:00 udp 0:02:00 rpc 0:10:00 h225 1:00:00
timeout h323 0:05:00 mgcp 0:05:00 sip 0:30:00 sip_media
0:02:00 timeout uauth 0:05:00 absolute aaa-server
TACACS+ protocol tacacs+ aaa-server RADIUS protocol
radius aaa-server LOCAL protocol local no snmp-server
location no snmp-server contact snmp-server community
public no snmp-server enable traps floodguard enable
sysopt connection permit-ipsec !--- Configure IPSec
transform set and dynamic crypto map. crypto ipsec
transform-set tripledes esp-3des esp-sha-hmac crypto
dynamic-map dynmap 10 set transform-set tripledes crypto
```

```
map mymap 10 ipsec-isakmp dynamic dynmap !--- Apply
crypto map to the outside interface. crypto map mymap
interface outside !--- Configure Phase 1 Internet
Security Association !--- and Key Management Protocol
(ISAKMP) parameters. isakmp enable outside isakmp
identity address isakmp policy 10 authentication pre-
share isakmp policy 10 encryption 3des isakmp policy 10
hash sha isakmp policy 10 group 2 isakmp policy 10
lifetime 86400 !--- Configure VPN Group parameters that
are sent down to the client. vpngroup vpn-hw-client-
group dns-server 172.16.1.1 vpngroup vpn-hw-client-group
wins-server 172.16.1.1 vpngroup vpn-hw-client-group
default-domain cisco.com vpngroup vpn-hw-client-group
split-tunnel 110 vpngroup vpn-hw-client-group idle-time
1800 vpngroup vpn-hw-client-group password *****
telnet timeout 5 ssh timeout 5 console timeout 0
terminal width 80
Cryptochecksum:700fe4d4e7fcdc6750953e64046930c0 : end
```

Cisco IOS Easy VPN リモート ハードウェア クライアント

```
831#show running-config 831#show run Building
configuration... Current configuration : 1226 bytes !
version 12.3 no service pad service timestamps debug
datetime msec service timestamps log datetime msec no
service password-encryption ! hostname 831 ! boot-start-
marker boot-end-marker ! ! no aaa new-model ip subnet-
zero ! ! ! ip name-server 172.16.1.1 ip ips po max-
events 100 no ftp-server write-enable ! ! ! ! ! ! ! !
crypto ipsec client ezvpn vpn-hw-client connect auto
group vpn-hw-client-group key password mode network-
extension peer 10.66.79.72 ! ! ! ! interface Ethernet0
ip address 192.168.1.254 255.255.255.0 crypto ipsec
client ezvpn vpn-hw-client inside ! interface Ethernet1
ip address 10.66.79.126 255.255.255.224 duplex auto
crypto ipsec client ezvpn vpn-hw-client ! interface
FastEthernet1 no ip address duplex auto speed auto !
interface FastEthernet2 no ip address duplex auto speed
auto ! interface FastEthernet3 no ip address duplex auto
speed auto ! interface FastEthernet4 no ip address
duplex auto speed auto ! ip classless ip route 0.0.0.0
0.0.0.0 10.66.79.97 ! ip http server no ip http secure-
server ! ! no cdp run ! control-plane ! ! line con 0 no
modem enable transport preferred all transport output
all line aux 0 line vty 0 4 ! scheduler max-task-time
5000 end
```

確認

設定がきちんと機能することを確認するのにこれらのセクションを使用して下さい。

- [PIX Easy VPN サーバ](#)
- [Cisco IOS Easy VPN リモート ハードウェア クライアント](#)

PIX Easy VPN サーバ

[Output Interpreter Tool](#) (OIT) ([登録ユーザ専用](#)) では、特定の show コマンドがサポートされています。OIT を使用して、show コマンド出力の解析を表示できます。

- **show crypto isakmp sa** : ピアにおける現在のインターネット鍵交換 (IKE) セキュリティアソシエーション (SA) をすべて表示します。pix525(config)#show crypto isakmp sa Total : 1 Embryonic : 0 dst src state pending created 10.66.79.72 10.66.79.126 QM_IDLE 0 1
- **show crypto ipsec sa** : ピア間に構築された IPsec SA を表示します。pix525(config)#show crypto ipsec sa *!--- This command is issued after a ping !--- is attempted from the PC behind the !--- Easy VPN Client to the PC !--- behind the server.* interface: outside Crypto map tag: mymap, local addr. 10.66.79.72 local ident (addr/mask/prot/port): (172.16.1.0/255.255.255.0/0/0) remote ident (addr/mask/prot/port): (192.168.1.0/255.255.255.0/0/0) current_peer: 10.66.79.126:500 dynamic allocated peer ip: 0.0.0.0 PERMIT, flags={ } #pkts encaps: 5, #pkts encrypt: 5, #pkts digest 5 #pkts decaps: 5, #pkts decrypt: 5, #pkts verify 5 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0 #send errors 0, #recv errors 0 *!--- ping packets !--- are successfully exchanged between the !--- Easy VPN Remote Hardware Client !--- and the Easy VPN Server.* local crypto endpt.: 10.66.79.72, remote crypto endpt.: 10.66.79.126 path mtu 1500, ipsec overhead 56, media mtu 1500 current outbound spi: 13f1aa83 inbound esp sas: spi: 0xf4dd4178(4108140920) transform: esp-3des esp-sha-hmac , in use settings = {Tunnel, } slot: 0, conn id: 1, crypto map: mymap sa timing: remaining key lifetime (k/sec): (4607999/28567) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0x13f1aa83(334604931) transform: esp-3des esp-sha-hmac , in use settings = {Tunnel, } slot: 0, conn id: 2, crypto map: mymap sa timing: remaining key lifetime (k/sec): (4607999/28567) IV size: 8 bytes replay detection support: Y outbound ah sas: outbound pcp sas:

Cisco IOS Easy VPN リモート ハードウェア クライアント

[Output Interpreter Tool](#) (OIT) ([登録ユーザ専用](#)) では、特定の show コマンドがサポートされています。OIT を使用して、show コマンド出力の解析を表示できます。

- **show crypto isakmp sa** : 現在ピアにあるすべての IKE SA を表示します。831#show crypto isakmp sa dst src state conn-id slot 10.66.79.72 10.66.79.126 QM_IDLE 1 0
- **show crypto ipsec sa** : ピア間に構築された IPsec SA を表示します。831#show crypto ipsec sa *!--- This command is issued after a ping !--- is attempted from the PC behind the !--- Easy VPN Client to the PC !--- behind the server.* interface: Ethernet1 Crypto map tag: Ethernet1-head-0, local addr. 10.66.79.126 protected vrf: local ident (addr/mask/prot/port): (192.168.1.0/255.255.255.0/0/0) remote ident (addr/mask/prot/port): (172.16.1.0/255.255.255.0/0/0) current_peer: 10.66.79.72:500 PERMIT, flags={origin_is_acl,} #pkts encaps: 5, #pkts encrypt: 5, #pkts digest: 5 #pkts decaps: 5, #pkts decrypt: 5, #pkts verify: 5 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0 #pkts not decompressed: 0, #pkts decompress failed: 0 #send errors 0, #recv errors 0 *!--- ping packets !--- are successfully exchanged between !--- the Easy VPN Remote Hardware Client !--- and the Easy VPN Server.* local crypto endpt.: 10.66.79.126, remote crypto endpt.: 10.66.79.72 path mtu 1500, media mtu 1500 current outbound spi: F4DD4178 inbound esp sas: spi: 0x13F1AA83(334604931) transform: esp-3des esp-sha-hmac , in use settings = {Tunnel, } slot: 0, conn id: 20, flow_id: 1, crypto map: Ethernet1-head-0 crypto engine type: Hardware, engine_id: 2 sa timing: remaining key lifetime (k/sec): (4444258/28648) ike_cookies: A12E6D0D 2C8D9B92 41AB02FB A00A5B03 IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0xF4DD4178(4108140920) transform: esp-3des esp-sha-hmac , in use settings = {Tunnel, } slot: 0, conn id: 21, flow_id: 2, crypto map: Ethernet1-head-0 crypto engine type: Hardware, engine_id: 2 sa timing: remaining key lifetime (k/sec): (4444258/28647) ike_cookies: A12E6D0D 2C8D9B92 41AB02FB A00A5B03 IV size: 8 bytes replay detection support: Y outbound ah sas: outbound pcp sas:
- **show crypto ipsec client ezvpn** — VPN クライアントまたは Easy VPN Remote デバイス コンフィギュレーションの情報を表示する。831#show crypto ipsec client ezvpn Easy VPN Remote Phase: 2 Tunnel name : vpn-hw-client Inside interface list: Ethernet0, Outside interface: Ethernet1 Current State: IPSEC_ACTIVE Last Event: SOCKET_UP DNS Primary: 172.16.1.1 DNS Secondary: 172.16.1.1 NBMS/WINS Primary: 172.16.1.1 NBMS/WINS Secondary: 172.16.1.1 Default Domain: cisco.com Split Tunnel List: 1 Address : 172.16.1.0 Mask : 255.255.255.0 Protocol : 0x0 Source Port: 0 Dest Port : 0

トラブルシューティング

このセクションでは、設定のトラブルシューティングに役立つ情報を説明します。

- [PIX Easy VPN サーバ](#)
- [Cisco IOS Easy VPN リモート ハードウェア クライアント](#)

Easy VPN リモート ハードウェア クライアントと Easy VPN サーバの設定を、このドキュメントの説明どおりに行っているにもかかわらず、問題が発生する場合は、Cisco Technical Assistance Center (TAC) での分析用に、各デバイスからの debug 出力と show コマンドの出力を収集してください。

トラブルシューティングのその他の情報に関しては [IP Security Troubleshooting - Understanding and Using debug Commands](#) および [確立済みの IPsec トンネルでデータトラフィックを伝送する PIX のトラブルシューティング](#) を参照して下さい。

PIX Easy VPN サーバ

[Output Interpreter Tool](#) (OIT) ([登録ユーザ専用](#)) では、特定の show コマンドがサポートされています。OIT を使用して、show コマンド出力の解析を表示できます。

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。

- **debug crypto ipsec** : フェーズ 2 の IPsec ネゴシエーションを表示します。
- **debug crypto isakmp** : フェーズ 1 の ISAKMP ネゴシエーションを表示します。

次に出力例を示します。

```
pix525(config)#  
!--- As soon as the crypto ipsec client ezvpn vpn-hw-client command !--- is issued on the  
outside interface of the Cisco IOS Easy VPN Remote !--- Hardware Client, the server receives an  
IKE negotiation request. crypto_isakmp_process_block:src:10.66.79.126, dest:10.66.79.72 spt:500  
dpt:500 OAK_AG exchange ISAKMP (0): processing SA payload. message ID = 0 ISAKMP (0): Checking  
ISAKMP transform 1 against priority 10 policy ISAKMP: encryption 3DES-CBC ISAKMP: hash SHA  
ISAKMP: default group 2 ISAKMP: extended auth pre-share (init) ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xc4 0x9b ISAKMP (0): atts are not acceptable. Next  
payload is 3 ISAKMP (0): Checking ISAKMP transform 2 against priority 10 policy ISAKMP:  
encryption 3DES-CBC ISAKMP: hash MD5 ISAKMP: default group 2 ISAKMP: extended auth pre-share  
(init) ISAKMP: life type in seconds ISAKMP: life duration (VPI) of 0x0 0x20 0xc4 0x9b ISAKMP  
(0): atts are not acceptable. Next payload is 3 ISAKMP (0): Checking ISAKMP transform 3 against  
priority 10 policy ISAKMP: encryption DES-CBC ISAKMP: hash SHA ISAKMP: default group 2 ISAKMP:  
extended auth pre-share (init) ISAKMP: life type in seconds ISAKMP: life duration (VPI) of 0x0  
0x20 0xc4 0x9b ISAKMP (0): atts are not acceptable. Next payload is 3 ISAKMP (0): Checking  
ISAKMP transform 4 against priority 10 policy ISAKMP: encryption DES-CBC ISAKMP: hash MD5  
ISAKMP: default group 2 ISAKMP: extended auth pre-share (init) ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xc4 0x9b ISAKMP (0): atts are not acceptable. Next  
payload is 3 ISAKMP (0): Checking ISAKMP transform 5 against priority 10 policy ISAKMP:  
encryption 3DES-CBC ISAKMP: hash SHA ISAKMP: default group 2 ISAKMP: auth pre-share ISAKMP: life  
type in seconds ISAKMP: life duration (VPI) of 0x0 0x20 0xc4 0x9b ISAKMP (0): atts are  
acceptable. Next payload is 3 ISAKMP (0): processing vendor id payload ISAKMP (0:0): vendor ID  
is NAT-T ISAKMP (0): processing vendor id payload ISAKMP (0:0): vendor ID is NAT-T ISAKMP (0):  
processing KE payload. message ID = 0 ISAKMP (0): processing NONCE payload. message ID = 0  
ISAKMP (0): processing ID payload. message ID = 0 ISAKMP (0): processing vendor id payload  
ISAKMP (0): remote peer supports dead peer detection ISAKMP (0): processing vendor id payload  
ISAKMP (0): received xauth v6 vendor id ISAKMP (0): processing vendor id payload ISAKMP (0):  
claimed IOS but failed authentication ISAKMP (0): processing vendor id payload ISAKMP (0):  
speaking to a Unity client ISAKMP (0): ID payload next-payload : 10 type : 1 protocol : 17 port  
: 500 length : 8 ISAKMP (0): Total payload length: 12 return status is IKMP_NO_ERROR
```

```
crypto_isakmp_process_block:src:10.66.79.126, dest:10.66.79.72 spt:500 dpt:500 OAK_AG exchange
ISAKMP (0): processing HASH payload. message ID = 0 ISAKMP (0): processing NOTIFY payload 24578
protocol 1 spi 0, message ID = 0 ISAKMP (0): processing notify INITIAL_CONTACT_IPSEC(key_engine):
got a queue event... IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP
IPSEC(key_engine_delete_sas): delete all SAs shared with 10.66.79.126 ISAKMP (0): SA has been
authenticated ISAKMP: Created a peer struct for 10.66.79.126, peer port 62465 return status is
IKMP_NO_ERROR ISAKMP (0): sending phase 1 RESPONDER_LIFETIME notify ISAKMP (0): sending NOTIFY
message 24576 protocol 1 VPN Peer: ISAKMP: Added new peer: ip:10.66.79.126/500 Total VPN Peers:1
VPN Peer: ISAKMP: Peer ip:10.66.79.126/500 Ref cnt incremented to:1 Total VPN Peers:1 ISAKMP:
peer is a remote access client crypto_isakmp_process_block:src:10.66.79.126, dest:10.66.79.72
spt:500 dpt:500 ISAKMP_TRANSACTION exchange ISAKMP (0:0): processing transaction payload from
10.66.79.126. message ID = 63324444 ISAKMP: Config payload CFG_REQUEST ISAKMP (0:0): checking
request: ISAKMP: attribute IP4_DNS (3) ISAKMP: attribute IP4_DNS (3) ISAKMP: attribute IP4_NBNS
(4) ISAKMP: attribute IP4_NBNS (4) ISAKMP: attribute ALT_SPLIT_INCLUDE (28676) ISAKMP: attribute
ALT_SPLITDNS_NAME (28675) ISAKMP: attribute ALT_DEF_DOMAIN (28674) ISAKMP: attribute UNKNOWN
(28673) Unsupported Attr: 28673 ISAKMP: attribute UNKNOWN (28678) Unsupported Attr: 28678
ISAKMP: attribute ALT_PFS (28679) ISAKMP: attribute ALT_BACKUP_SERVERS (28681) ISAKMP: attribute
APPLICATION_VERSION (7) ISAKMP (0:0): responding to peer config from 10.66.79.126. ID =
2563858956 return status is IKMP_NO_ERROR crypto_isakmp_process_block:src:10.66.79.126,
dest:10.66.79.72 spt:500 dpt:500 OAK_QM exchange oakley_process_quick_mode: OAK_QM_IDLE ISAKMP
(0): processing SA payload. message ID = 3238088328 ISAKMP : Checking IPsec proposal 1 ISAKMP:
transform 1, ESP_3DES ISAKMP: attributes in transform: ISAKMP: encaps is 1 ISAKMP: SA life type
in seconds ISAKMP: SA life duration (VPI) of 0x0 0x20 0xc4 0x9b ISAKMP: SA life type in
kilobytes ISAKMP: SA life duration (VPI) of 0x0 crypto_isakmp_process_block:src:10.66.79.126,
dest:10.66.79.72 spt:500 dpt:500 OAK_QM exchange ISADB: reaper checking SA 0x3c6420c, conn_id =
0
```

[Cisco IOS Easy VPN リモート ハードウェア クライアント](#)

[Output Interpreter Tool](#) (OIT) ([登録ユーザ専用](#)) では、特定の **show** コマンドがサポートされています。OIT を使用して、**show** コマンド出力の解析を表示できます。

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。

- **debug crypto ipsec** : フェーズ 2 の IPsec ネゴシエーションを表示します。
- **debug crypto isakmp** : フェーズ 1 の ISAKMP ネゴシエーションを表示します。

次に出力例を示します。

```
831(config)#int eth 1 831(config-if)#crypto ipsec client ezvpn vpn-hw-client *Mar 1
01:42:18.739: ISAKMP: callback: no SA found for 0.0.0.0/0.0.0.0 [vrf 0] *Mar 1 01:42:18.739:
%CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is ON *Mar 1 01:42:18.743: ISAKMP: Looking for a matching key
for 10.66.79.72 in default *Mar 1 01:42:18.743: ISAKMP: received ke message (1/1) *Mar 1
01:42:18.743: ISAKMP:(0:0:N/A:0): SA request profile is (NULL) *Mar 1 01:42:18.743: ISAKMP:
Created a peer struct for 10.66.79.72, peer port 500 *Mar 1 01:42:18.743: ISAKMP: Locking peer
struct 0x81F05E5C, IKE refcount 1 for isakmp_initiator *Mar 1 01:42:18.747:
ISAKMP:(0:0:N/A:0):Setting client config settings 81C8F564 *Mar 1 01:42:18.747: ISAKMP: local
port 500, remote port 500 *Mar 1 01:42:18.747: insert sa successfully sa = 81C8EEB8 *Mar 1
01:42:18.747: ISAKMP:(0:0:N/A:0): client mode configured. *Mar 1 01:42:18.751:
ISAKMP:(0:0:N/A:0): constructed NAT-T vendor-03 ID *Mar 1 01:42:18.751: ISAKMP:(0:0:N/A:0):
constructed NAT-T vendor-02 ID *Mar 1 01:42:19.203: ISAKMP:(0:1:HW:2):SA is doing pre-shared key
authentication plus XAUTH using id type ID_KEY_ID *Mar 1 01:42:19.203: ISAKMP (0:268435457): ID
payload next-payload : 13 type : 11 group id : vpn-hw-client-group protocol : 17 port : 0 length
: 27 *Mar 1 01:42:19.203: ISAKMP:(0:1:HW:2):Total payload length: 27 *Mar 1 01:42:19.207:
ISAKMP:(0:1:HW:2):Input = IKE_MESG_FROM_IPSEC, IKE_SA_REQ_AM *Mar 1 01:42:19.207:
ISAKMP:(0:1:HW:2):Old State = IKE_READY New State = IKE_I_AM1 *Mar 1 01:42:19.207:
ISAKMP:(0:1:HW:2): beginning Aggressive Mode exchange *Mar 1 01:42:19.207: ISAKMP:(0:1:HW:2):
sending packet to 10.66.79.72 my_port 500 peer_port 500 (I) AG_INIT_EXCH *Mar 1 01:42:19.267:
ISAKMP (0:268435457): received packet from 10.66.79.72 dport 500 sport 500 Global (I)
AG_INIT_EXCH *Mar 1 01:42:19.271: ISAKMP:(0:1:HW:2): processing SA payload. message ID = 0 *Mar
1 01:42:19.271: ISAKMP:(0:1:HW:2): processing ID payload. message ID = 0 *Mar 1 01:42:19.271:
ISAKMP (0:268435457): ID payload next-payload : 10 type : 1 address : 10.66.79.72 protocol : 17
```

port : 500 length : 12 *Mar 1 01:42:19.271: ISAKMP:(0:1:HW:2): processing vendor id payload *Mar 1 01:42:19.271: ISAKMP:(0:1:HW:2): vendor ID seems Unity/DPD but major 215 mismatch *Mar 1 01:42:19.275: ISAKMP:(0:1:HW:2): vendor ID is XAUTH *Mar 1 01:42:19.275: ISAKMP:(0:1:HW:2): processing vendor id payload *Mar 1 01:42:19.275: ISAKMP:(0:1:HW:2): vendor ID is DPD *Mar 1 01:42:19.275: ISAKMP:(0:1:HW:2): processing vendor id payload *Mar 1 01:42:19.275: ISAKMP:(0:1:HW:2): vendor ID is Unity *Mar 1 01:42:19.275: ISAKMP:(0:1:HW:2): local preshared key found *Mar 1 01:42:19.275: ISAKMP : Scanning profiles for xauth ... *Mar 1 01:42:19.279: ISAKMP:(0:1:HW:2): Authentication by xauth preshared *Mar 1 01:42:19.279: ISAKMP:(0:1:HW:2):Checking ISAKMP transform 1 against priority 65527 policy *Mar 1 01:42:19.279: ISAKMP: encryption 3DES-CBC *Mar 1 01:42:19.279: ISAKMP: hash SHA *Mar 1 01:42:19.279: ISAKMP: default group 2 *Mar 1 01:42:19.279: ISAKMP: auth pre-share *Mar 1 01:42:19.279: ISAKMP: life type in seconds *Mar 1 01:42:19.279: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B *Mar 1 01:42:19.279: ISAKMP:(0:1:HW:2):Authentication method offered does not match policy! *Mar 1 01:42:19.283: ISAKMP:(0:1:HW:2):atts are not acceptable. Next payload is 0 *Mar 1 01:42:19.283: ISAKMP:(0:1:HW:2):Checking ISAKMP transform 1 against priority 65528 policy *Mar 1 01:42:19.283: ISAKMP: encryption 3DES-CBC *Mar 1 01:42:19.283: ISAKMP: hash SHA *Mar 1 01:42:19.283: ISAKMP: default group 2 *Mar 1 01:42:19.283: ISAKMP: auth pre-share *Mar 1 01:42:19.283: ISAKMP: life type in seconds *Mar 1 01:42:19.283: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B *Mar 1 01:42:19.283: ISAKMP:(0:1:HW:2):Hash algorithm offered does not match policy! *Mar 1 01:42:19.283: ISAKMP:(0:1:HW:2):atts are not acceptable. Next payload is 0 *Mar 1 01:42:19.287: ISAKMP:(0:1:HW:2):Checking ISAKMP transform 1 against priority 65529 policy *Mar 1 01:42:19.287: ISAKMP: encryption 3DES-CBC *Mar 1 01:42:19.287: ISAKMP: hash SHA *Mar 1 01:42:19.287: ISAKMP: default group 2 *Mar 1 01:42:19.287: ISAKMP: auth pre-share *Mar 1 01:42:19.287: ISAKMP: life type in seconds *Mar 1 01:42:19.287: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B *Mar 1 01:42:19.287: ISAKMP:(0:1:HW:2):Encryption algorithm offered does not match policy! *Mar 1 01:42:19.287: ISAKMP:(0:1:HW:2):atts are not acceptable. Next payload is 0 *Mar 1 01:42:19.291: ISAKMP:(0:1:HW:2):Checking ISAKMP transform 1 against priority 65530 policy *Mar 1 01:42:19.291: ISAKMP: encryption 3DES-CBC *Mar 1 01:42:19.291: ISAKMP: hash SHA *Mar 1 01:42:19.291: ISAKMP: default group 2 *Mar 1 01:42:19.291: ISAKMP: auth pre-share *Mar 1 01:42:19.291: ISAKMP: life type in seconds *Mar 1 01:42:19.291: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B *Mar 1 01:42:19.291: ISAKMP:(0:1:HW:2):Encryption algorithm offered does not match policy! *Mar 1 01:42:19.291: ISAKMP:(0:1:HW:2):atts are not acceptable. Next payload is 0 *Mar 1 01:42:19.295: ISAKMP:(0:1:HW:2):Checking ISAKMP transform 1 against priority 65531 policy *Mar 1 01:42:19.295: ISAKMP: encryption 3DES-CBC *Mar 1 01:42:19.295: ISAKMP: hash SHA *Mar 1 01:42:19.295: ISAKMP: default group 2 *Mar 1 01:42:19.295: ISAKMP: auth pre-share *Mar 1 01:42:19.295: ISAKMP: life type in seconds *Mar 1 01:42:19.295: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B *Mar 1 01:42:19.295: ISAKMP:(0:1:HW:2):atts are acceptable. Next payload is 0 *Mar 1 01:42:19.295: ISAKMP:(0:1:HW:2): processing KE payload. message ID = 0 *Mar 1 01:42:19.747: ISAKMP:(0:1:HW:2): processing NONCE payload. message ID = 0 *Mar 1 01:42:19.747: ISAKMP:(0:1:HW:2):SKEYID state generated *Mar 1 01:42:19.747: ISAKMP:(0:1:HW:2): processing HASH payload. message ID = 0 *Mar 1 01:42:19.751: ISAKMP:(0:1:HW:2):SA authentication status: authenticated *Mar 1 01:42:19.751: ISAKMP:(0:1:HW:2):SA has been authenticated with 10.66.79.72 *Mar 1 01:42:19.751: ISAKMP: Trying to insert a peer 10.66.79.126/10.66.79.72/500/, and inserted successfully. *Mar 1 01:42:19.751: ISAKMP:(0:1:HW:2):Send initial contact *Mar 1 01:42:19.759: ISAKMP:(0:1:HW:2): sending packet to 10.66.79.72 my_port 500 peer_port 500 (I) AG_INIT_EXCH *Mar 1 01:42:19.759: ISAKMP:(0:1:HW:2):Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH *Mar 1 01:42:19.759: ISAKMP:(0:1:HW:2):Old State = IKE_I_AM1 New State = IKE_P1_COMPLETE *Mar 1 01:42:19.763: ISAKMP:(0:1:HW:2):Need config/address *Mar 1 01:42:19.763: ISAKMP:(0:1:HW:2):Need config/address *Mar 1 01:42:19.763: ISAKMP: set new node -1731108340 to CONF_ADDR *Mar 1 01:42:19.763: ISAKMP: Sending APPLICATION_VERSION string: Cisco IOS Software, C831 Software (C831-K9O3SY6-M), Version 12.3(8)T, RELEASE SOFTWARE (fc2) Technical Support: <http://www.cisco.com/techsupport> Copyright (c) 1986-2004 by Cisco Systems, Inc. Compiled Fri 14-May-04 01:40 by eaarmas *Mar 1 01:42:19.775: ISAKMP:(0:1:HW:2): initiating peer config to 10.66.79.72. ID = -1731108340 *Mar 1 01:42:19.775: ISAKMP:(0:1:HW:2): sending packet to 10.66.79.72 my_port 500 peer_port 500 (I) CONF_ADDR *Mar 1 01:42:19.775: ISAKMP:(0:1:HW:2):Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE *Mar 1 01:42:19.775: ISAKMP:(0:1:HW:2):Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_MODE_REQ_SENT *Mar 1 01:42:19.775: ISAKMP (0:268435457): received packet from 10.66.79.72 dport 500 sport 500 Global (I) CONF_ADDR *Mar 1 01:42:19.779: ISAKMP: set new node -531260300 to CONF_ADDR *Mar 1 01:42:19.783: ISAKMP:(0:1:HW:2): processing HASH payload. message ID = -531260300 *Mar 1 01:42:19.783: ISAKMP:(0:1:HW:2): processing NOTIFY RESPONDER_LIFETIME protocol 1 spi 0, message ID = -531260300, sa = 81C8EEB8 *Mar 1 01:42:19.783: ISAKMP:(0:1:HW:2):SA authentication status: authenticated *Mar 1 01:42:19.787: ISAKMP:(0:1:HW:2): processing responder lifetime *Mar 1 01:42:19.787: ISAKMP:(0:1:HW:2): start processing isakmp responder lifetime *Mar 1 01:42:19.787: ISAKMP:(0:1:HW:2): restart ike sa

timer to 86400 secs *Mar 1 01:42:19.787: ISAKMP:(0:1:HW:2):deleting node -531260300 error FALSE
reason "Informational (in) state 1" *Mar 1 01:42:19.787: ISAKMP:(0:1:HW:2):Input =
IKE_MSG_FROM_PEER, IKE_INFO_NOTIFY *Mar 1 01:42:19.787: ISAKMP:(0:1:HW:2):Old State =
IKE_CONFIG_MODE_REQ_SENT New State = IKE_CONFIG_MODE_REQ_SENT *Mar 1 01:42:19.791: ISAKMP
(0:268435457): received packet from 10.66.79.72 dport 500 sport 500 Global (I) CONF_ADDR *Mar 1
01:42:19.795: ISAKMP:(0:1:HW:2):processing transaction payload from 10.66.79.72. message ID = -
1731108340 *Mar 1 01:42:19.795: ISAKMP: Config payload REPLY *Mar 1 01:42:19.799:
ISAKMP(0:268435457) process config reply *Mar 1 01:42:19.799: ISAKMP:(0:1:HW:2):deleting node -
1731108340 error FALSE reason "Transaction mode done" *Mar 1 01:42:19.799:
ISAKMP:(0:1:HW:2):Input = IKE_MSG_FROM_PEER, IKE_CFG_REPLY *Mar 1 01:42:19.799:
ISAKMP:(0:1:HW:2):Old State = IKE_CONFIG_MODE_REQ_SENT New State = IKE_P1_COMPLETE *Mar 1
01:42:19.807: ISAKMP:(0:1:HW:2):Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE *Mar 1
01:42:19.807: ISAKMP:(0:1:HW:2):Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE *Mar 1
01:42:19.815: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 10.66.79.126, remote=
10.66.79.72, local_proxy= 192.168.1.0/255.255.255.0/0/0 (type=4), remote_proxy=
172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel),
lifedur= 2147483s and 4608000kb, spi= 0x13F1AA83(334604931), conn_id= 0, keysize= 0, flags=
0x400A *Mar 1 01:42:19.815: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 10.66.79.126,
remote= 10.66.79.72, local_proxy= 192.168.1.0/255.255.255.0/0/0 (type=4), remote_proxy=
172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac (Tunnel),
lifedur= 2147483s and 4608000kb, spi= 0xAD8C95C7(2911671751), conn_id= 0, keysize= 0, flags=
0x400A *Mar 1 01:42:19.819: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 10.66.79.126,
remote= 10.66.79.72, local_proxy= 192.168.1.0/255.255.255.0/0/0 (type=4), remote_proxy=
172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-sha-hmac (Tunnel),
lifedur= 2147483s and 4608000kb, spi= 0x7B5EBFA(129362938), conn_id= 0, keysize= 0, flags=
0x400A *Mar 1 01:42:19.819: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 10.66.79.126,
remote= 10.66.79.72, local_proxy= 192.168.1.0/255.255.255.0/0/0 (type=4), remote_proxy=
172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-md5-hmac (Tunnel),
lifedur= 2147483s and 4608000kb, spi= 0x702568AE(1881499822), conn_id= 0, keysize= 0, flags=
0x400A *Mar 1 01:42:19.823: ISAKMP: received ke message (1/4) *Mar 1 01:42:19.823: ISAKMP: set
new node 0 to QM_IDLE *Mar 1 01:42:19.823: ISAKMP:(0:1:HW:2): sitting IDLE. Starting QM
immediately (QM_IDLE) *Mar 1 01:42:19.823: ISAKMP:(0:1:HW:2):beginning Quick Mode exchange, M-
ID of -1056878968 *Mar 1 01:42:19.835: ISAKMP:(0:1:HW:2): sending packet to 10.66.79.72 my_port
500 peer_port 500 (I) QM_IDLE *Mar 1 01:42:19.835: ISAKMP:(0:1:HW:2):Node -1056878968, Input =
IKE_MSG_INTERNAL, IKE_INIT_QM *Mar 1 01:42:19.843: ISAKMP:(0:1:HW:2):Old State = IKE_QM_READY
New State = IKE_QM_I_QM1 *Mar 1 01:42:19.859: ISAKMP (0:268435457): received packet from
10.66.79.72 dport 500 sport 500 Global (I) QM_IDLE *Mar 1 01:42:19.863: ISAKMP:(0:1:HW:2):
processing HASH payload. message ID = -1056878968 *Mar 1 01:42:19.863: ISAKMP:(0:1:HW:2):
processing SA payload. message ID = -1056878968 *Mar 1 01:42:19.863: ISAKMP:(0:1:HW:2):Checking
IPSec proposal 1 *Mar 1 01:42:19.863: ISAKMP: transform 1, ESP_3DES *Mar 1 01:42:19.863: ISAKMP:
attributes in transform: *Mar 1 01:42:19.863: ISAKMP: encaps is 1 (Tunnel) *Mar 1 01:42:19.867:
ISAKMP: SA life type in seconds *Mar 1 01:42:19.867: ISAKMP: SA life duration (VPI) of 0x0 0x20
0xC4 0x9B *Mar 1 01:42:19.867: ISAKMP: SA life type in kilobytes *Mar 1 01:42:19.867: ISAKMP: SA
life duration (VPI) of 0x0 0x46 0x50 0x0 *Mar 1 01:42:19.867: ISAKMP: authenticator is HMAC-SHA
*Mar 1 01:42:19.867: ISAKMP:(0:1:HW:2):atts are acceptable. *Mar 1 01:42:19.871:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.66.79.126,
remote= 10.66.79.72, local_proxy= 192.168.1.0/255.255.255.0/0/0 (type=4), remote_proxy=
172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel),
lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2 *Mar 1 01:42:19.871: Crypto
mapdb : proxy_match src addr : 192.168.1.0 dst addr : 172.16.1.0 protocol : 0 src port : 0 dst
port : 0 *Mar 1 01:42:19.871: ISAKMP:(0:1:HW:2): processing NONCE payload. message ID = -
1056878968 *Mar 1 01:42:19.875: ISAKMP:(0:1:HW:2): processing ID payload. message ID = -
1056878968 *Mar 1 01:42:19.875: ISAKMP:(0:1:HW:2): processing ID payload. message ID = -
1056878968 *Mar 1 01:42:19.875: ISAKMP:(0:1:HW:2): processing NOTIFY RESPONDER_LIFETIME protocol
3 spi 4108140920, message ID = -1056878968, sa = 81C8EEB8 *Mar 1 01:42:19.875:
ISAKMP:(0:1:HW:2):SA authentication status: authenticated *Mar 1 01:42:19.875:
ISAKMP:(0:1:HW:2): processing responder lifetime *Mar 1 01:42:19.875: ISAKMP (268435457):
responder lifetime of 28800s *Mar 1 01:42:19.879: IPsec: Flow_switching Allocated flow for
flow_id 268435457 *Mar 1 01:42:19.879: IPsec: Flow_switching Allocated flow for flow_id
268435458 *Mar 1 01:42:19.887: %CRYPTO-5-SESSION_STATUS: Crypto tunnel is UP . Peer
10.66.79.72:500 Id: 10.66.79.72 *Mar 1 01:42:19.887: ISAKMP: Locking peer struct 0x81F05E5C,
IPSEC refcount 1 for for stuff_ke *Mar 1 01:42:19.887: ISAKMP:(0:1:HW:2): Creating IPsec SAs
*Mar 1 01:42:19.895: inbound SA from 10.66.79.72 to 10.66.79.126 (f/i) 0/ 0 (proxy 172.16.1.0 to
192.168.1.0) *Mar 1 01:42:19.895: has spi 0x13F1AA83 and conn_id 20 and flags 2 *Mar 1

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01:42:19.895: lifetime of 28790 seconds *Mar 1 01:42:19.895: lifetime of 4608000 kilobytes *Mar 1 01:42:19.895: has client flags 0x0 *Mar 1 01:42:19.895: outbound SA from 10.66.79.126 to 10.66.79.72 (f/i) 0/0 (proxy 192.168.1.0 to 172.16.1.0) *Mar 1 01:42:19.895: has spi -186826376 and conn_id 21 and flags A *Mar 1 01:42:19.895: lifetime of 28790 seconds *Mar 1 01:42:19.895: lifetime of 4608000 kilobytes *Mar 1 01:42:19.895: has client flags 0x0 *Mar 1 01:42:19.899: IPSEC(key_engine): got a queue event with 2 kei messages *Mar 1 01:42:19.899: IPSEC(initialize_sas): , (key eng. msg.) INBOUND local= 10.66.79.126, remote= 10.66.79.72, local_proxy= 192.168.1.0/255.255.255.0/0/0 (type=4), remote_proxy= 172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel), lifedur= 28790s and 4608000kb, spi= 0x13F1AA83(334604931), conn_id= 268435476, keysize= 0, flags= 0x2 *Mar 1 01:42:19.899: IPSEC(initialize_sas): , (key eng. msg.) OUTBOUND local= 10.66.79.126, remote= 10.66.79.72, local_proxy= 192.168.1.0/255.255.255.0/0/0 (type=4), remote_proxy= 172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel), lifedur= 28790s and 4608000kb, spi= 0xF4DD4178(4108140920), conn_id= 268435477, keysize= 0, flags= 0xA *Mar 1 01:42:19.903: Crypto mapdb : proxy_match src addr : 192.168.1.0 dst addr : 172.16.1.0 protocol : 0 src port : 0 dst port : 0 *Mar 1 01:42:19.903: IPSEC(crypto_ipsec_sa_find_ident_head): reconnecting with the same proxies and 10.66.79.72 *Mar 1 01:42:19.903: IPSEC(policy_db_add_ident): src 192.168.1.0, dest 172.16.1.0, dest_port 0 *Mar 1 01:42:19.907: IPSEC(create_sa): sa created, (sa) sa_dest= 10.66.79.126, sa_prot= 50, sa_spi= 0x13F1AA83(334604931), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 268435476 *Mar 1 01:42:19.907: IPSEC(create_sa): sa created, (sa) sa_dest= 10.66.79.72, sa_prot= 50, sa_spi= 0xF4DD4178(4108140920), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 268435477 *Mar 1 01:42:19.911: ISAKMP:(0:1:HW:2): sending packet to 10.66.79.72 my_port 500 peer_port 500 (I) QM_IDLE *Mar 1 01:42:19.911: ISAKMP:(0:1:HW:2):deleting node -1056878968 error FALSE reason "No Error" *Mar 1 01:42:19.911: ISAKMP:(0:1:HW:2):Node -1056878968, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH *Mar 1 01:42:19.911: ISAKMP:(0:1:HW:2):Old State = IKE_QM_I_QM1 New State = IKE_QM_PHASE2_COMPLETE *Mar 1 01:43:09.787: ISAKMP:(0:1:HW:2):purging node -531260300 *Mar 1 01:43:09.799: ISAKMP:(0:1:HW:2):purging node -1731108340 *Mar 1 01:43:09.911: ISAKMP:(0:1:HW:2):purging node -1056878968
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• **debug vpnclient** : VPN クライアントに特有のネゴシエーションを表示します。
次に出力例を示します。

```
831(config)#int eth 1 831(config-if)#crypto ipsec client ezvpn vpn-hw-client *Mar 1 01:49:26.543: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is ON *Mar 1 01:49:26.547: EZVPN(vpn-hw-client): Current State: IDLE *Mar 1 01:49:26.547: EZVPN(vpn-hw-client): Event: VALID_CONFIG_ENTERED *Mar 1 01:49:26.547: EZVPN(vpn-hw-client): ezvpn_check_tunnel_interface_state *Mar 1 01:49:26.547: EZVPN(vpn-hw-client): New State: VALID_CFG *Mar 1 01:49:26.547: EZVPN(vpn-hw-client): Current State: VALID_CFG *Mar 1 01:49:26.547: EZVPN(vpn-hw-client): Event: VALID_CONFIG_ENTERED *Mar 1 01:49:26.547: EZVPN(vpn-hw-client): No state change *Mar 1 01:49:26.547: EZVPN(vpn-hw-client): Current State: VALID_CFG *Mar 1 01:49:26.551: EZVPN(vpn-hw-client): Event: TUNNEL_INTERFACE_UP *Mar 1 01:49:26.551: EZVPN(vpn-hw-client): ezvpn_check_tunnel_interface_address *Mar 1 01:49:26.551: EZVPN(vpn-hw-client): New State: TUNNEL_INT_UP *Mar 1 01:49:26.551: EZVPN(vpn-hw-client): Current State: TUNNEL_INT_UP *Mar 1 01:49:26.551: EZVPN(vpn-hw-client): Event: TUNNEL_HAS_PUBLIC_IP_ADD *Mar 1 01:49:26.551: EZVPN(vpn-hw-client): New State: CONNECT_REQUIRED *Mar 1 01:49:26.551: EZVPN(vpn-hw-client): Current State: CONNECT_REQUIRED *Mar 1 01:49:26.551: EZVPN(vpn-hw-client): Event: CONNECT *Mar 1 01:49:26.555: EZVPN(vpn-hw-client): ezvpn_connect_request *Mar 1 01:49:26.555: EZVPN(vpn-hw-client): New State: READY *Mar 1 01:49:27.535: EZVPN(vpn-hw-client): Current State: READY *Mar 1 01:49:27.535: EZVPN(vpn-hw-client): Event: CONN_UP *Mar 1 01:49:27.535: EZVPN(vpn-hw-client): ezvpn_conn_up A12E6D0D D9C3B1AE 41AB02FB 62DD1B01 *Mar 1 01:49:27.539: EZVPN(vpn-hw-client): No state change *Mar 1 01:49:27.563: EZVPN(vpn-hw-client): Current State: READY *Mar 1 01:49:27.563: EZVPN(vpn-hw-client): Event: MODE_CONFIG_REPLY *Mar 1 01:49:27.563: EZVPN(vpn-hw-client): ezvpn_mode_config *Mar 1 01:49:27.563: EZVPN(vpn-hw-client): ezvpn_parse_mode_config_msg *Mar 1 01:49:27.563: EZVPN: Attributes sent in message: *Mar 1 01:49:27.563: DNS Primary: 172.16.1.1 *Mar 1 01:49:27.567: DNS Secondary: 172.16.1.1 *Mar 1 01:49:27.567: NBMS/WINS Primary: 172.16.1.1 *Mar 1 01:49:27.567: NBMS/WINS Secondary: 172.16.1.1 *Mar 1 01:49:27.567: Split Tunnel List: 1 *Mar 1 01:49:27.567: Address : 172.16.1.0 *Mar 1 01:49:27.567: Mask : 255.255.255.0 *Mar 1 01:49:27.567: Protocol : 0x0 *Mar 1 01:49:27.567: Source Port: 0 *Mar 1 01:49:27.567: Dest Port : 0 *Mar 1 01:49:27.567: Default Domain: cisco.com *Mar 1 01:49:27.567: EZVPN: Unknown/Unsupported Attr: PFS (0x7007) *Mar 1 01:49:27.571: EZVPN(vpn-hw-client): ezvpn_nat_config *Mar 1 01:49:27.571: EZVPN: close old connection, len 0 *Mar 1 01:49:27.575: EZVPN(vpn-hw-client): New State: SS_OPEN *Mar 1 01:49:27.587: EZVPN(vpn-hw-client): Current State: SS_OPEN *Mar 1 01:49:27.587: EZVPN(vpn-hw-client): Event: SOCKET_READY *Mar 1
```

```
01:49:27.587: EZVPN(vpn-hw-client): No state change *Mar 1 01:49:27.619: %CRYPTO-5-  
SESSION_STATUS: Crypto tunnel is UP . Peer 10.66.79.72:500 Id: 10.66.79.72 *Mar 1 01:49:27.623:  
EZVPN(vpn-hw-client): Current State: SS_OPEN *Mar 1 01:49:27.623: EZVPN(vpn-hw-client): Event:  
MTU_CHANGED *Mar 1 01:49:27.623: EZVPN(vpn-hw-client): No state change *Mar 1 01:49:27.627:  
EZVPN(vpn-hw-client): Current State: SS_OPEN *Mar 1 01:49:27.627: EZVPN(vpn-hw-client): Event:  
SOCKET_UP *Mar 1 01:49:27.631: ezvpn_socket_up *Mar 1 01:49:27.631: EZVPN(vpn-hw-client): New  
State: IPSEC_ACTIVE
```

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- [PIX Firewall に関するドキュメント](#)
- [PIX コマンド リファレンス](#)
- [Request for Comments \(RFC \)](#)
- [IPSec ネゴシエーション/IKE プロトコルに関するサポート ページ](#)
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