使用委托证书在 Cisco IOS 路由器与 Cisco VPN 客户端之间配置 IPSec

目录

简介

使用委托认证，本文展示如何配置在Cisco IOS路由器和Cisco VPN Client 3.x之间的IPSec VPN通道。Cisco IOS软件releases 12.2(8)T及以上版本支持此功能。在本文的配置示例也突出显示Cisco IOS路由器和使用Entrust的Cisco VPN Client的认证机构(CA)登记程序作为CA服务器。

开始使用前

规则

有关文档规则的详细信息，请参阅 Cisco 技术提示规则。

先决条件

本文档没有任何特定的前提条件。

使用的组件

本文档中的信息基于以下软件和硬件版本。

- 运行Cisco IOS软件版本12.2(8)T (IOS镜像的Cisco 3640路由器：c3640-ik8o3s-mz.122-8.T)
- PC运行Windows 2000的－Cisco VPN Client 4.0.1
- 作为CA服务器使用的Entrust CA服务器

本文档中的信息都是基于特定实验室环境中的设备创建的。本文档中使用的所有设备最初均采用原

始（默认）配置。如果您是在真实网络上操作，请确保您在使用任何命令前已经了解其潜在影响。

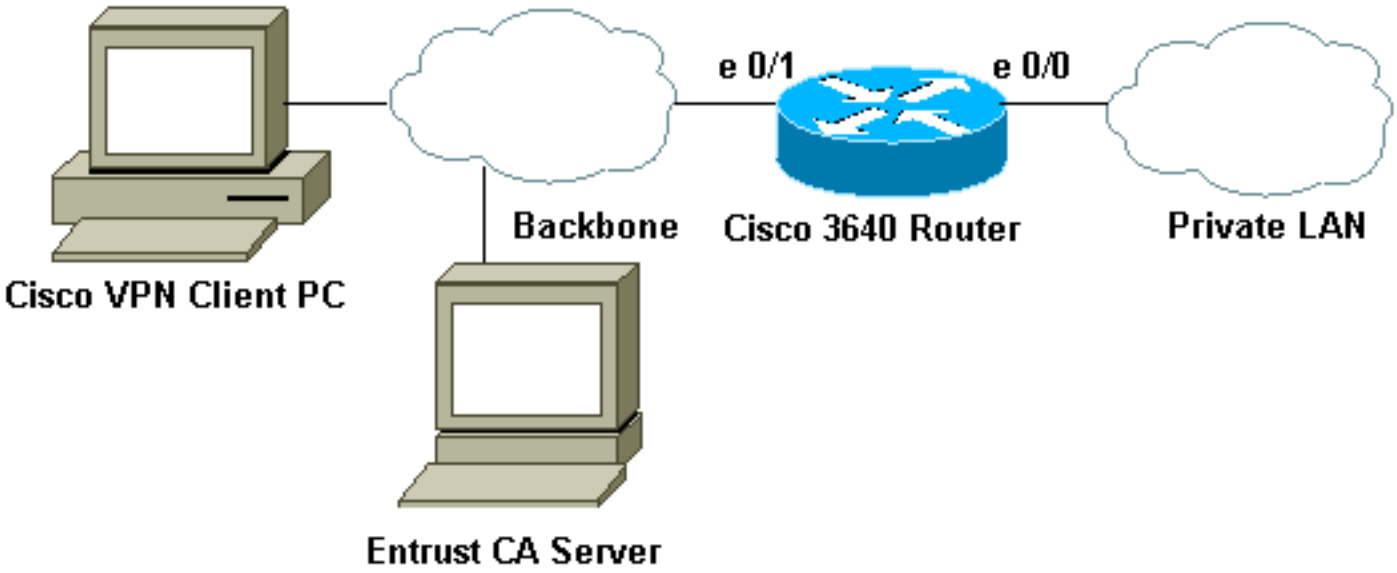
配置

本部分提供有关如何配置本文档所述功能的信息。

注意： 要查找本文档所用命令的其他信息，请使用命令查找工具（仅限注册用户）。

网络图

本文档使用下图所示的网络设置。



配置

本文档使用如下所示的配置。

- 路由器配置
- Cisco VPN Client的证书登记
- 配置在Cisco VPN Client的一VPN连接

路由器配置

- 在IOS路由器3640的证书登记
- 3640配置

在IOS路由器3640的证书登记

```
!--- Define a hostname and domain name for the router.
!--- The fully qualified domain name (FQDN) will be used
!--- as the identity of the router during certificate
enrollment. 3640(config)#ip domain-name sjpki.com !---
Generate RSA (encryption and authentication) keys.
3640(config)#crypto key generate rsa The name for the
keys will be: 3640.sjpki.com Choose the size of the key
modulus in the range of 360 to 2048 for your General
```

```
Purpose Keys. Choosing a key modulus greater than 512
may take a few minutes. How many bits in the modulus
[512]: % Generating 512 bit RSA keys ...[OK] !--- Define
the CA identity. Note that in Cisco IOS Software !---
Release 12.2(8)T, the crypto ca trustpoint command !---
replaces the crypto ca identity command from previous !-
-- Cisco IOS versions. So that the router will try to
enroll !--- to the CA server automatically when its
certificates !--- expire, auto-enroll was turned on.
3640(config)#crypto ca trustpoint SJPKI 3640(ca-
trustpoint)# enrollment url http://171.69.89.126
3640(ca-trustpoint)#enrollment mode ra 3640(ca-
trustpoint)#crl query ldap://171.69.89.126 3640(ca-
trustpoint)#serial-number none 3640(ca-trustpoint)#ip-
address none 3640(ca-trustpoint)#password revokeme
3640(ca-trustpoint)#auto-enroll 3640(ca-
trustpoint)#usage ike !--- Retrieves CA and registration
authority (RA) !--- certificates from the CA server.
3640(config)#crypto ca authen SJPKI Certificate has the
following attributes: Fingerprint: 0D8E6CF8 C63D7068
3BA4B90A 16054812 % Do you accept this certificate?
[yes/no]: y Trustpoint CA certificate accepted.
3640(config)# !--- Enroll to CA server and get router's
own certificate. 3640(config)#crypto ca enroll SJPKI % %
Start certificate enrollment .. % The subject name in
the certificate will be: 3640.sjpki.com % Certificate
request sent to Certificate Authority % The certificate
request fingerprint will be displayed. % The 'show
crypto ca certificate' command will also show the
fingerprint. 3640(config)# Fingerprint: D9CE886E
B4B76115 B7149128 6658E7CA 00:58:17: CRYPTO_PKI: status
= 102: certificate request pending 00:58:39: CRYPTO_PKI:
status = 102: certificate request pending 00:59:42:
%CRYPTO-6-CERTRET: Certificate received from Certificate
Authority
```

3640配置

```
version 12.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname 3640
!
logging buffered 4096 debugging
!--- Define local authentication as the authentication
method !--- for Internet Key Exchange (IKE) XAUTH. !---
Note that "ClientAuth" is the tag associated with the
crypto map. aaa new-model aaa authentication login
ClientAuth local aaa authorization network ClientAuth
local aaa session-id common enable secret 5
$1$v49A$bfcGOfwF7qdKQqZxCIN770 ! username vpnclient
password 0 cisco123 ip subnet-zero ! ! ip domain-name
sjpki.com ! ip audit notify log ip audit po max-events
100 ! crypto ca trustpoint SJPKI enrollment mode ra
enrollment url http://171.69.89.126:80 usage ike serial-
number none ip-address none password 7
1405171D030F2F2621 crl query ldap://171.69.89.126 auto-
enroll crypto ca certificate chain SJPKI certificate ca
3C9CC54B 308202E4 3082024D A0030201 0202043C 9CC54B30
0D06092A 864886F7 0D010105 0500302D 310B3009 06035504
06130275 73310E30 0C060355 040A1305 63697363 6F310E30
0C060355 040B1305 736A7670 6E301E17 0D303230 33323331
37343132 355A170D 32323033 32333138 31313235 5A302D31
```

0B300906 03550406 13027573 310E300C 06035504 0A130563
6973636F 310E300C 06035504 0B130573 6A76706E 30819F30
0D06092A 864886F7 0D010101 05000381 8D003081 89028181
00AD0B5B DACB1B4B 6CBE7138 2A97AA1D A2D3565C 56EE74D7
32A61D4F 7FBA7E53 44A4C8CC 94E16825 99369D85 7B6F5A15
60D9AD92 8AF8800E E3E70E01 757FD5DE 470C4996 A379181A
00709FE5 9C7C5A14 959F77B1 A746F8F7 1F0077FB 99E54DAC
8F3C355F 31964497 F36E7511 EF09B23D 52CDCD2F 50E471B7
F1FFCB05 4E6EB7F4 71020301 0001A382 010F3082 010B3011
06096086 480186F8 42010104 04030200 07304F06 03551D1F
04483046 3044A042 A040A43E 303C310B 30090603 55040613
02757331 0E300C06 0355040A 13056369 73636F31 0E300C06
0355040B 1305736A 76706E31 0D300B06 03550403 13044352
4C31302B 0603551D 10042430 22800F32 30303230 33323331
37343132 355A810F 32303232 30333233 31383131 32355A30
0B060355 1D0F0404 03020106 301F0603 551D2304 18301680
14F7931A 99D0E447 69928CC0 A9FF647D F53E627F 5A301D06
03551D0E 04160414 F7931A99 D0E44769 928CC0A9 FF647DF5
3E627F5A 300C0603 551D1304 05300301 01FF301D 06092A86
4886F67D 07410004 10300E1B 0856352E 303A342E 30030204
90300D06 092A8648 86F70D01 01050500 03818100 3C6AB8D8
9E3F140D D5D051AB 7032AF51 BD357804 4D7FA32C EB42D1EA
2AFA1EEF 548C175E FAB9B4C7 DE0E0744 0916FC71 B87768F3
28B605E9 A054900B 5E249835 3112E7FF F0B579F5 F06858F8
5940CA9C E0FC4E98 66C50A40 2ABEAF37 9DB339C0 F98EDC0C
E28C82CD B2465D46 5E3AB18E 0FEEE09A 37D58506 72AE135E
3B48662D quit certificate ra-encrypt 3C9CC573 308202E1
3082024A A0030201 0202043C 9CC57330 0D06092A 864886F7
0D010105 0500302D 310B3009 06035504 06130275 73310E30
0C060355 040A1305 63697363 6F310E30 0C060355 040B1305
736A7670 6E301E17 0D303230 33323332 32353234 355A170D
30353033 32333233 32323435 5A305631 0B300906 03550406
13027573 310E300C 06035504 0A130563 6973636F 310E300C
06035504 0B130573 6A76706E 31273025 06035504 03131E65
6E747275 73745650 4E636F6E 6E656374 6F722045 6E747275
7374504B 4930819F 300D0609 2A864886 F70D0101 01050003
818D0030 81890281 8100AC0B BA3BC6CF 7C303853 C1C191F6
5CD91A41 2F6143B4 6662D7CB A4CD6633 45DBAEC7 7664F88B
D62C5DA9 6087C097 5F498BF5 3DDC7ACF 1F4BFA30 DA112550
841FC5AD 45AEEE65 EA1EB935 473BF5F4 3F6FDE88 E05D7097
FD8C4525 50ECE9F7 4B3EA152 0DDB8867 A7DB5FEB D7886405
4DCB7486 9D8E1E96 5E3495D8 989017F1 CA7D0203 010001A3
81E43081 E1300B06 03551D0F 04040302 0520301B 0603551D
09041430 12301006 092A8648 86F67D07 441D3103 02010130
4F060355 1D1F0448 30463044 A042A040 A43E303C 310B3009
06035504 06130275 73310E30 0C060355 040A1305 63697363
6F310E30 0C060355 040B1305 736A7670 6E310D30 0B060355
04031304 43524C31 301F0603 551D2304 18301680 14F7931A
99D0E447 69928CC0 A9FF647D F53E627F 5A301D06 03551D0E
04160414 2DDB5231 39027684 9C982D0D E4528CBC CFFB97B3
30090603 551D1304 02300030 1906092A 864886F6 7D074100
040C300A 1B045635 2E300302 04B0300D 06092A86 4886F70D
01010505 00038181 001423E0 A88F4F28 FF69BD65 F35FDCD7
BE1ACB2C 9AF076CD 407D2698 D9237E02 2026B349 799BD983
C6FE9EB1 41E3728A 0FB37EE2 E0CE0071 6194EDF8 D21A9DED
A7372E20 6FFE0468 014ED8EB 018FBB96 A683B210 A32C0673
D2C2785A 818C8EC8 2B9549EF 356C96BF 8F396064 1F6D7B50
D3354171 ACA45AE7 D550F42A 30922C78 E6 quit certificate
ra-sign 3C9CC574 30820310 30820279 A0030201 0202043C
9CC57430 0D06092A 864886F7 0D010105 0500302D 310B3009
06035504 06130275 73310E30 0C060355 040A1305 63697363
6F310E30 0C060355 040B1305 736A7670 6E301E17 0D303230
33323332 32353234 355A170D 30353033 32333233 32323435
5A305631 0B300906 03550406 13027573 310E300C 06035504

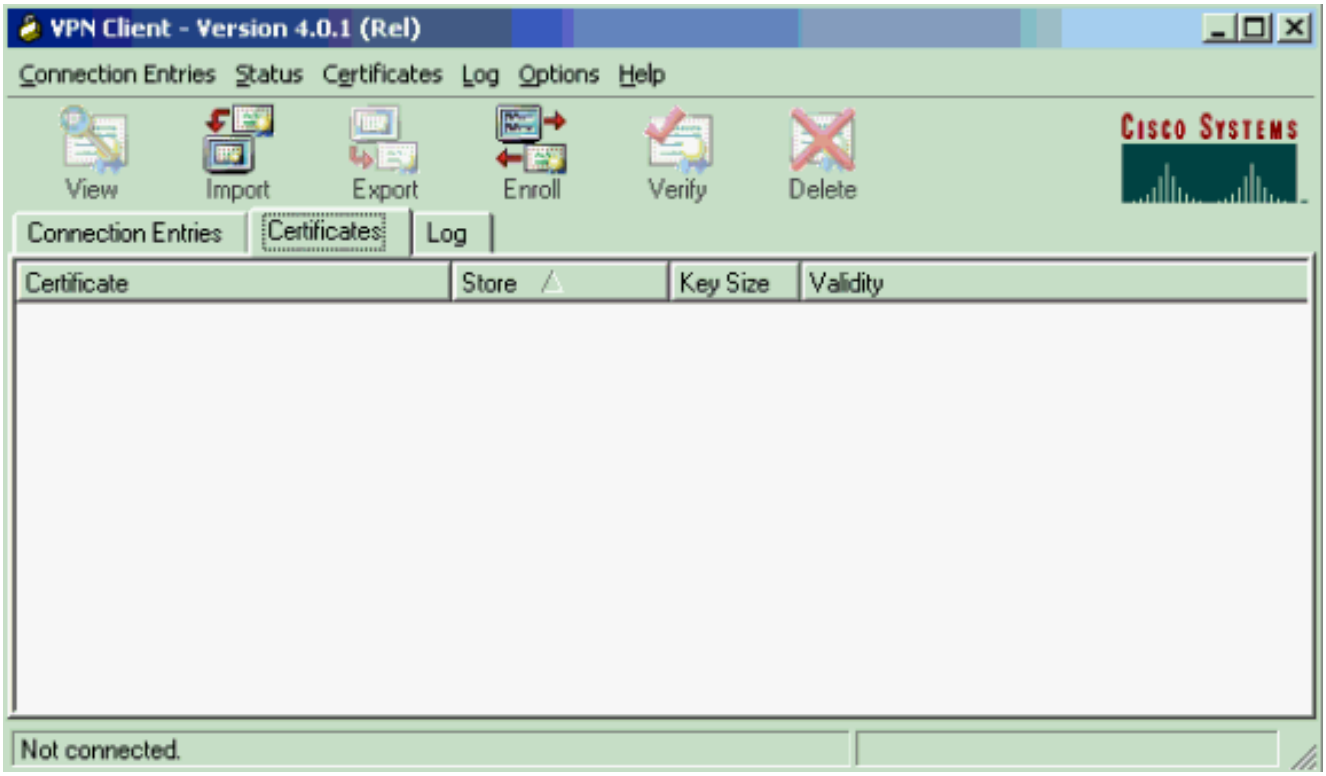
```
0A130563 6973636F 310E300C 06035504 0B130573 6A76706E
31273025 06035504 03131E65 6E747275 73745650 4E636F6E
6E656374 6F722045 6E747275 7374504B 4930819F 300D0609
2A864886 F70D0101 01050003 818D0030 81890281 8100AC87
EF7C0E8E 2120B81F D231EE87 78CB4238 9F5E5F3B D1D1C9F7
B35993EF 7118104A 26C38AB4 7DDE9B1D 3A685A73 9788A221
AC3199D7 0D91D315 2276DAF7 F58C5A1C 690B3CC8 7C1CBE03
8BD81993 F4644D30 B3388741 A0A0C4FC BA469358 08C39FA0
152424F9 6E55651C 565B024C A862F557 85D925AA 6074959A
AC8E934B 48090203 010001A3 82011230 82010E30 0B060355
1D0F0404 03020780 302B0603 551D1004 24302280 0F323030
32303332 33323235 3234355A 810F3230 30343034 32393033
32323435 5A301B06 03551D09 04143012 30100609 2A864886
F67D0744 1D310302 0101304F 0603551D 1F044830 463044A0
42A040A4 3E303C31 0B300906 03550406 13027573 310E300C
06035504 0A130563 6973636F 310E300C 06035504 0B130573
6A76706E 310D300B 06035504 03130443 524C3130 1F060355
1D230418 30168014 F7931A99 D0E44769 928CC0A9 FF647DF5
3E627F5A 301D0603 551D0E04 160414AA 2E19FD77 6824DE9B
41DB46FC 15229D09 48D4EF30 09060355 1D130402 30003019
06092A86 4886F67D 07410004 0C300A1B 0456352E 30030204
B0300D06 092A8648 86F70D01 01050500 03818100 9EA074F8
12D60655 181B7E4B CEC7F891 950F22E3 83344504 CBF49334
3DB683F1 32FE454E 2C3F7B6A 6E80B7F8 5D3B29A0 06AC428B
BBAA3381 4209F50C CD8A7D30 4A6842ED 6B683B94 8423E58B
B2E27650 D1104DEB 56678757 7B744187 D99955F7 DF1BCED2
849D4F9A F22CDA7C 203E19C6 125AC104 608E37DF 600F97B9
B4DCF0CE quit certificate 3C9CC602 308202C0 30820229
A0030201 0202043C 9CC60230 0D06092A 864886F7 0D010105
0500302D 310B3009 06035504 06130275 73310E30 0C060355
040A1305 63697363 6F310E30 0C060355 040B1305 736A7670
6E301E17 0D303230 34303832 32323534 365A170D 30333034
30383232 35353436 5A304C31 0B300906 03550406 13027573
310E300C 06035504 0A130563 6973636F 310E300C 06035504
0B130573 6A76706E 311D301B 06092A86 4886F70D 01090216
0E333634 302E736A 706B692E 636F6D30 5C300D06 092A8648
86F70D01 01010500 034B0030 48024100 B7C253B7 B915A629
3CC1514F 39F8BB0A 503D0D10 D9C95D78 106D8944 48D28864
72760A06 859DA91A 0F9304E3 9CA87FFB FA3846FA 5C798970
4D8E6203 FE701A67 02030100 01A38201 10308201 0C300B06
03551D0F 04040302 05A03019 0603551D 11041230 10820E33
3634302E 736A706B 692E636F 6D302B06 03551D10 04243022
800F3230 30323034 30383232 32353436 5A810F32 30303231
32323031 30353534 365A304F 0603551D 1F044830 463044A0
42A040A4 3E303C31 0B300906 03550406 13027573 310E300C
06035504 0A130563 6973636F 310E300C 06035504 0B130573
6A76706E 310D300B 06035504 03130443 524C3130 1F060355
1D230418 30168014 F7931A99 D0E44769 928CC0A9 FF647DF5
3E627F5A 301D0603 551D0E04 16041413 C98FDF5A AEF253F0
84D39E4B 44A10B1F A2622730 09060355 1D130402 30003019
06092A86 4886F67D 07410004 0C300A1B 0456352E 30030204
B0300D06 092A8648 86F70D01 01050500 03818100 671FC222
EADDC030 F8053380 5EEE91E5 69D3F5A7 5AC037F9 539EF9CB
25ECD678 365A954A FFD3141B 17DEEB9F 1DFE6F97 8B8FDD18
47458858 A0517D21 2EE68C30 F359C5F9 647354F8 F92F2346
B999EFB7 029F30FB AC096829 58DC7E13 EE1FA3F6 BAAF794A
0157B0B1 4935CD3A 7B613B65 940412F8 C6301264 A7E53742
75E1E403 quit !--- Define Internet Security Association
and Key Management !--- Protocol (ISAKMP) policy. The
IKE authentication method !--- "rsa-sig" will be used,
but it doesn't show up in !--- the configuration since
it is the default method. crypto isakmp policy 1 group 2
!--- Use FQDN as the ISAKMP identity. crypto isakmp
identity hostname !--- Define the VPN group for Cisco
```

```
VPN Client. !--- The VPN group name "sjvpn" matches !---
the Organizational Unit (OU) name of the client's
certificate. !--- Access list "acl 100" defines the
split-tunneling traffic, and !--- "vpnpool" defines the
IP pool from which the VPN Client !--- receives its IP
address during the IKE negotiation. crypto isakmp client
configuration group sjvpn dns 10.1.1.5 wins 10.1.1.5
domain sjpki.com pool vpnpool acl 101 ! !-- Define
crypto map configuration. crypto ipsec transform-set
myset esp-des esp-md5-hmac ! crypto dynamic-map
vpnclient 10 set transform-set myset ! ! crypto map vpn
client authentication list ClientAuth crypto map vpn
isakmp authorization list ClientAuth crypto map vpn
client configuration address respond crypto map vpn 10
ipsec-isakmp dynamic vpnclient ! ! ! fax interface-type
fax-mail mta receive maximum-recipients 0 ! ! interface
Loopback0 ip address 10.1.2.1 255.255.255.0 ! interface
Ethernet0/0 ip address 10.1.3.1 255.255.255.0 no
keepalive half-duplex ! interface Ethernet0/1 ip address
172.16.172.40 255.255.255.240 half-duplex crypto map vpn
! interface BRI1/0 no ip address shutdown ! interface
BRI1/1 no ip address shutdown ! interface BRI1/2 no ip
address shutdown ! interface BRI1/3 no ip address
shutdown ! interface Serial2/0 no ip address shutdown no
fair-queue ! interface Serial2/1 no ip address shutdown
! interface Serial2/2 no ip address shutdown ! interface
Serial2/3 no ip address shutdown ! interface Serial3/0
no ip address shutdown ! interface Serial3/1 no ip
address shutdown ! interface Serial3/2 no ip address
shutdown ! interface Serial3/3 no ip address shutdown !
ip local pool vpnpool 10.1.1.10 10.1.1.50 ip classless
ip route 0.0.0.0 0.0.0.0 172.16.172.33 no ip http server
ip pim bidir-enable ! ! access-list 101 permit ip
10.1.0.0 0.0.255.255 10.1.1.0 0.0.0.255 ! call rsvp-sync
! ! mgcp profile default ! dial-peer cor custom ! ! line
con 0 line aux 0 line vty 0 4 password cisco ! ! end
```

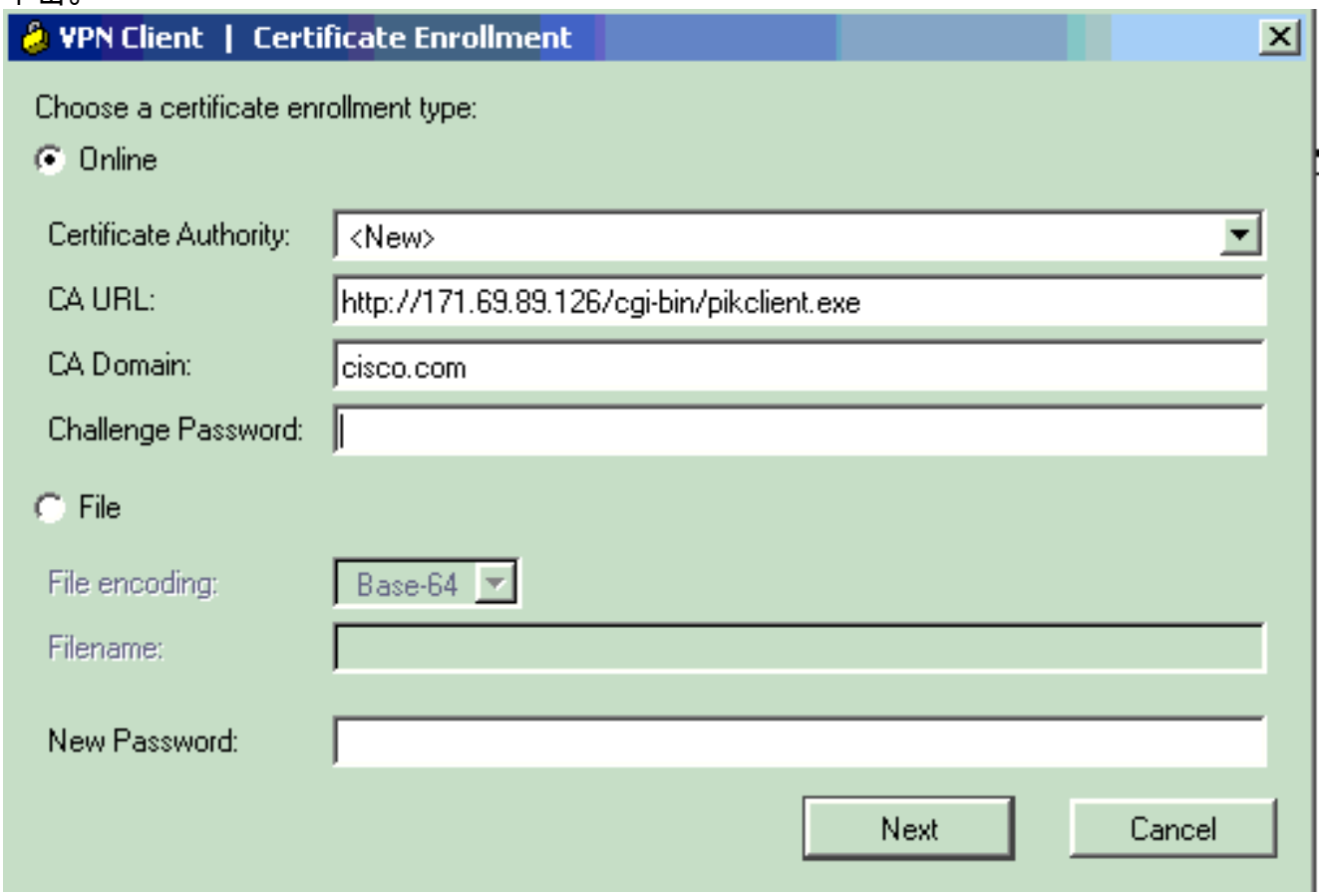
Cisco VPN Client的证书登记

以下屏幕截图展示使用的步骤登记委托认证的Cisco VPN Client。在这种情况下，我们使用了基于网络的登记。

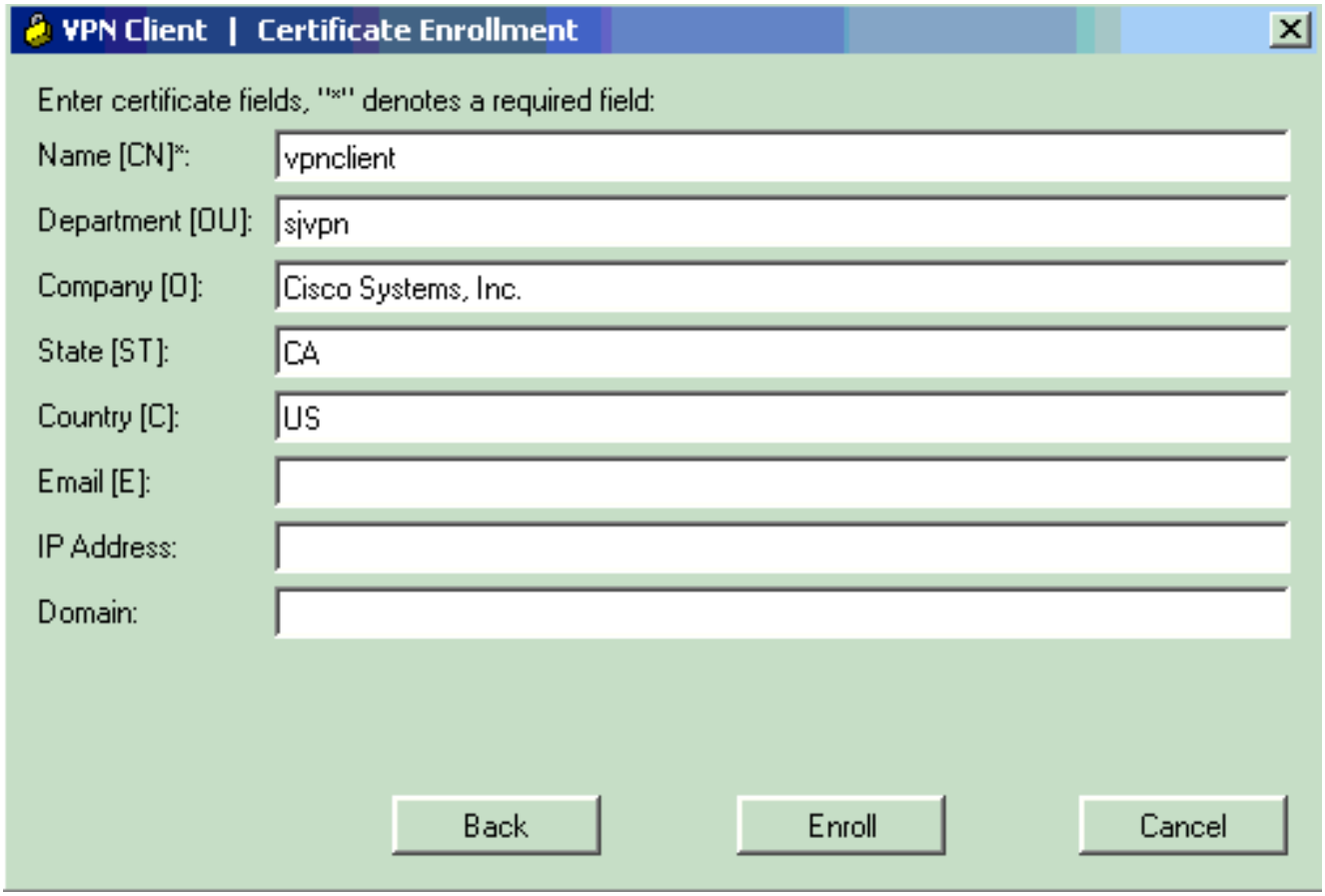
1. 启动VPN客户端，选择Certificates Tab，并且单击**登记**。



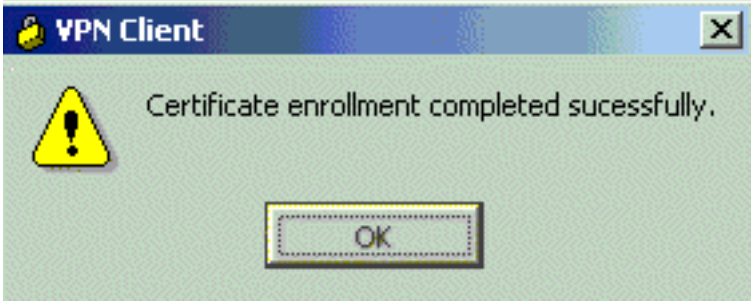
2. 选择**联机**作为证书登记类型，然后填写URL、域和密码的适当的域。当你完成的时候，**其次请**单击。



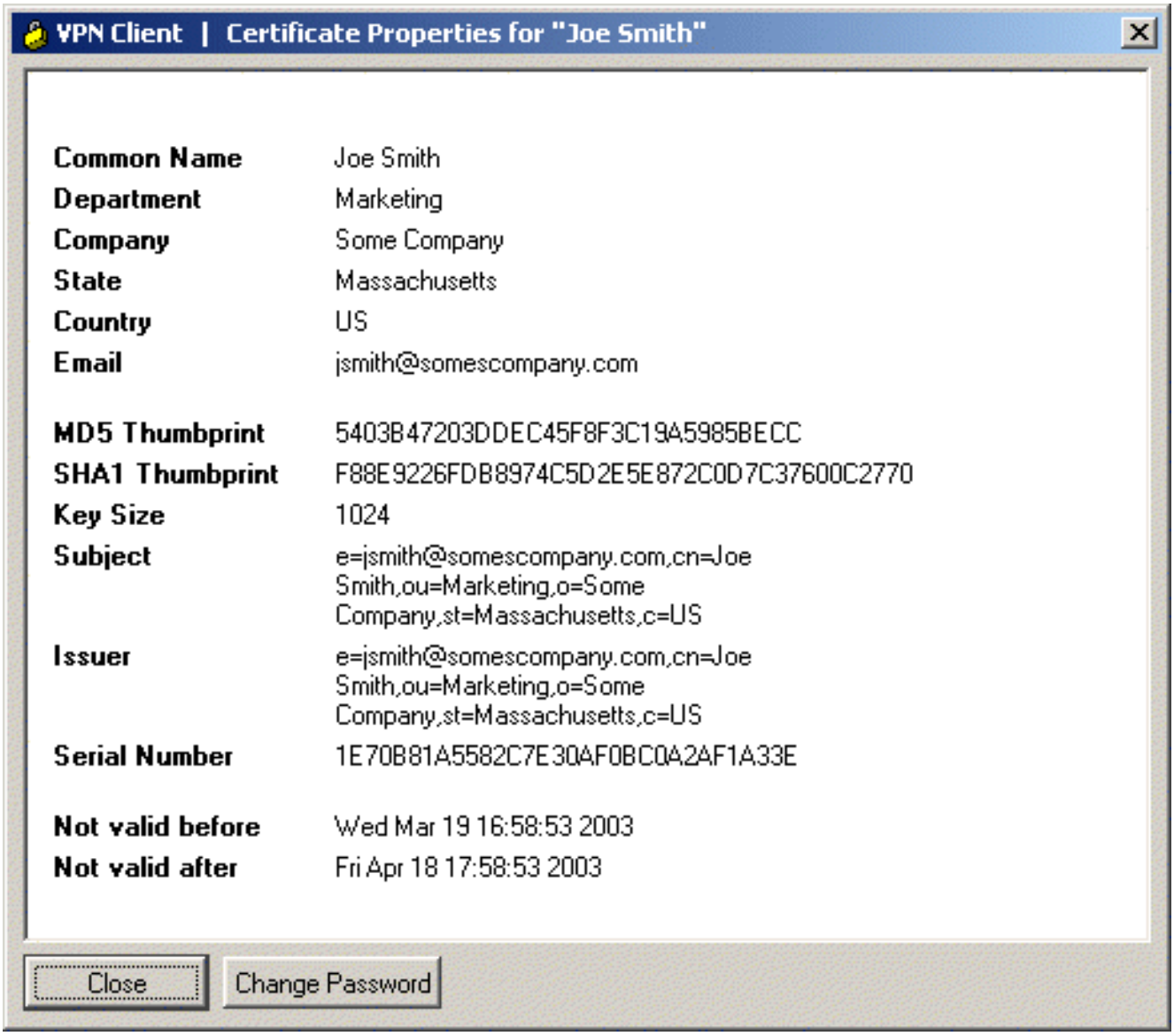
3. 在证书字段输入您的信息。如果需要编辑关于前期屏幕的任何信息，请点击**上一步**。否则，当你完成的时候，请单击**登记**。



4. 当登记状态窗口确认您的请求登记到CA服务器时，请点击OK键继续。



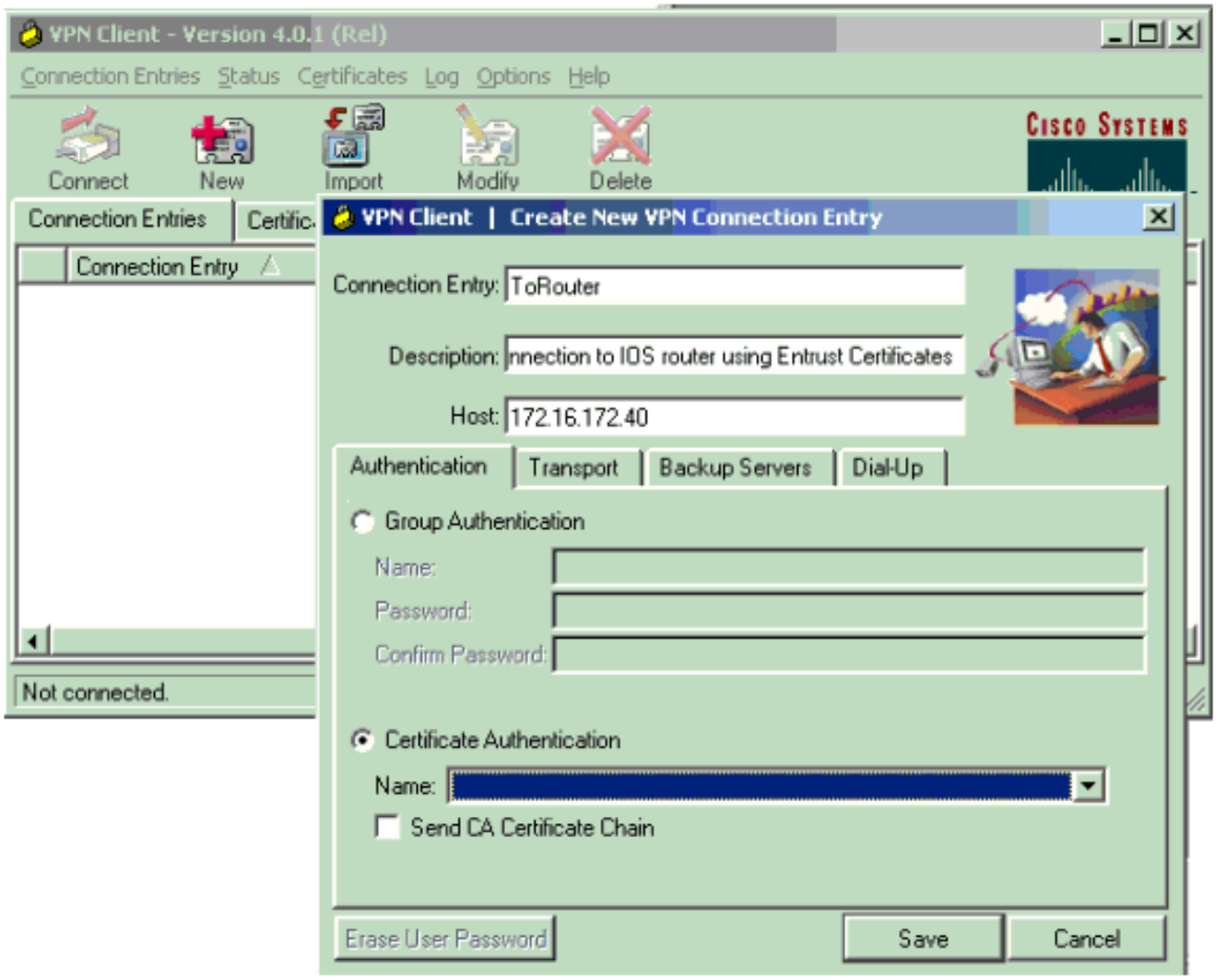
5. 在登记以后， VPN客户端应该接收一个人证书、一个CA根证明和两RA证书。数字证书屏幕验证VPN客户端的证书。要查看证书，请去**Certificates > View**。证书应该看起来类似于以下示例。



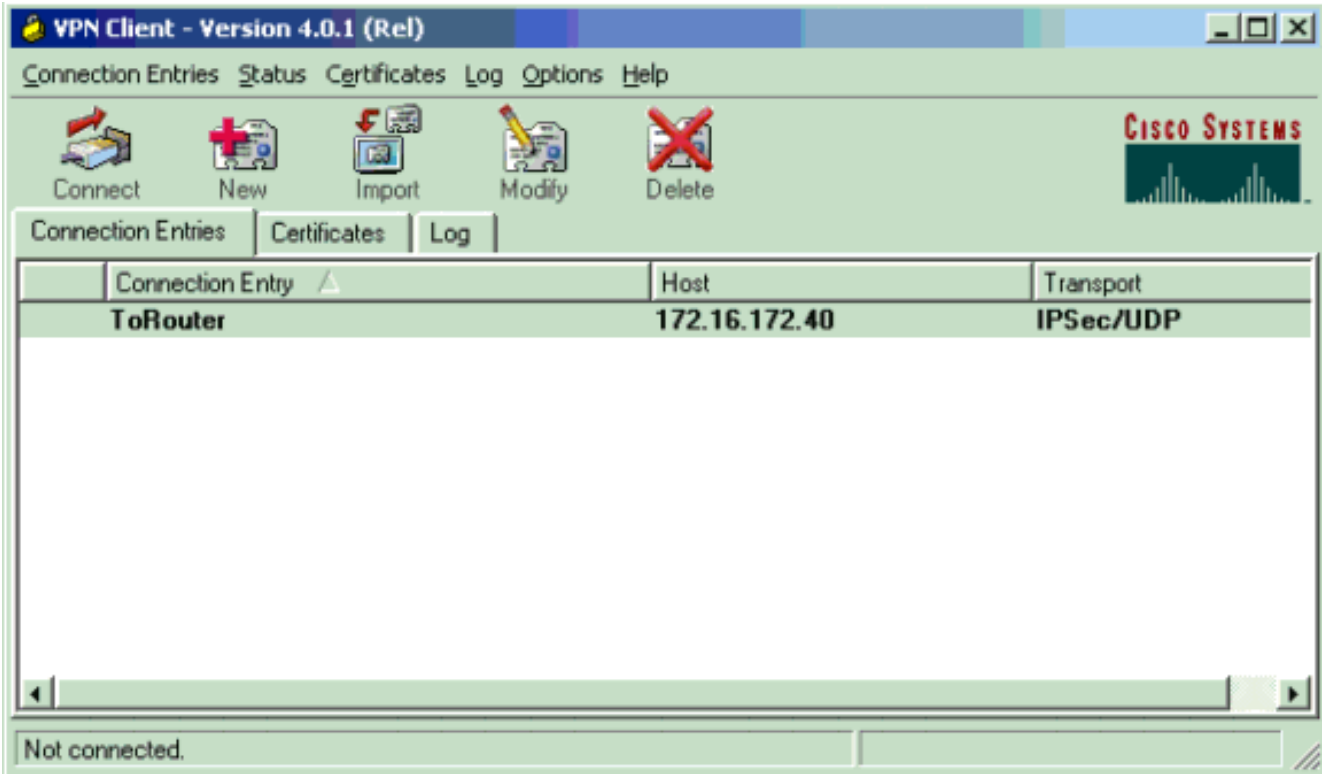
配置在Cisco VPN Client的VPN连接

以下屏幕截图给Cisco IOS路由器展示如何配置在Cisco VPN Client的一个新连接。

1. 启动VPN客户端，选择Connection Entries选项，并且单击**新**创建新连接。
2. 输入连接名、说明和主机IP地址。证书验证字段将自动地带有关于VPN客户端的信息。完成后单击 Save（保存）。



3. 要连接，请选择新连接条目然后单击**连接**。



验证

本部分所提供的信息可用于确认您的配置是否正常工作。

命令输出解释程序工具（仅限注册用户）支持某些 **show** 命令，使用此工具可以查看对 show 命令输出的分析。

- 3640#**show crypto isakmp sa** dst src state conn-id slot 172.16.172.40 171.69.89.129 QM_IDLE 1 0
- 3640#**show crypto ipsec sa** interface: Ethernet0/1 Crypto map tag: vpn, local addr. 172.16.172.40 local ident (addr/mask/prot/port): (10.1.0.0/255.255.0.0/0/0) remote ident (addr/mask/prot/port): (10.1.1.11/255.255.255.255/0/0) current_peer: 171.69.89.129 PERMIT, flags={} #pkts encaps: 4, #pkts encrypt: 4, #pkts digest 4 #pkts decaps: 17, #pkts decrypt: 17, #pkts verify 17 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0, #send errors 0, #recv errors 0 local crypto endpt.: 172.16.172.40, remote crypto endpt.: 171.69.89.129 path mtu 1500, media mtu 1500 current outbound spi: E73672A9 inbound esp sas: spi: 0xADA266D3(2913101523) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } slot: 0, conn id: 2002, flow_id: 3, crypto map: vpn sa timing: remaining key lifetime (k/sec): (4607997/3526) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0xE73672A9(3879105193) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } slot: 0, conn id: 2003, flow_id: 4, crypto map: vpn sa timing: remaining key lifetime (k/sec): (4607999/3526) IV size: 8 bytes replay detection support: Y outbound ah sas: outbound pcp sas: local ident (addr/mask/prot/port): (172.16.172.40/255.255.255.255/0/0) remote ident (addr/mask/prot/port): (10.1.1.11/255.255.255.255/0/0) current_peer: 171.69.89.129 PERMIT, flags={} #pkts encaps: 0, #pkts encrypt: 0, #pkts digest 0 #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0, #send errors 0, #recv errors 0 local crypto endpt.: 172.16.172.40, remote crypto endpt.: 171.69.89.129 path mtu 1500, media mtu 1500 current outbound spi: 1E04D17C inbound esp sas: spi: 0x96D25C98(2530368664) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } slot: 0, conn id: 2000, flow_id: 1, crypto map: vpn sa timing: remaining key lifetime (k/sec): (4608000/3527) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0x1E04D17C(503632252) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } slot: 0, conn id: 2001, flow_id: 2, crypto map: vpn sa timing: remaining key lifetime (k/sec): (4608000/3527) IV size: 8 bytes replay detection support: Y outbound ah sas: outbound pcp sas:
- 3640#**show crypto engine connection active** ID Interface IP-Address State Algorithm Encrypt Decrypt 1 Ethernet0/1 172.16.172.40 set HMAC_SHA+DES_56_CB 0 0 2000 Ethernet0/1 172.16.172.40 set HMAC_MD5+DES_56_CB 0 0 2001 Ethernet0/1 172.16.172.40 set HMAC_MD5+DES_56_CB 0 0 2002 Ethernet0/1 172.16.172.40 set HMAC_MD5+DES_56_CB 0 20 2003 Ethernet0/1 172.16.172.40 set HMAC_MD5+DES_56_CB 4 0

故障排除

本部分提供的信息可用于对配置进行故障排除。

下面在Cisco 3640路由器收集的工作的IKE协商的debug输出。以下调试打开。

3640#**show debug** Cryptographic Subsystem: Crypto ISAKMP debugging is on Crypto Engine debugging is on Crypto IPSEC debugging is on Crypto PKI Trans debugging is on 3640# 00:02:30: ISAKMP (0:0): received packet from 171.69.89.129 (N) NEW SA 00:02:30: ISAKMP: local port 500, remote port 500 00:02:30: ISAKMP: Created a peer node for 171.69.89.129 00:02:30: ISAKMP (0:1): Setting client config settings 62D99D98 00:02:30: ISAKMP (0:1): (Re)Setting client xauth list ClientAuth and state 00:02:30: ISAKMP: Locking CONFIG struct 0x62D99D98 from crypto_ikmp_config_initialize_sa, count 1 00:02:30: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_MM_EXCH Old State = IKE_READY New State = IKE_R_MM1 00:02:30: ISAKMP (0:1): processing SA payload. message ID = 0 00:02:30: ISAKMP (0:1): processing vendor id payload 00:02:30: ISAKMP (0:1): vendor ID seems Unity/DPD but bad major 00:02:30: ISAKMP (0:1): vendor ID is XAUTH 00:02:30: ISAKMP (0:1): processing vendor id payload 00:02:30: ISAKMP (0:1): vendor ID is DPD 00:02:30: ISAKMP (0:1): processing vendor id payload 00:02:30: ISAKMP (0:1): vendor ID is Unity 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 1 against priority 1 policy 00:02:30: ISAKMP:

encryption 3DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 5 00:02:30: ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 2 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash MD5 00:02:30: ISAKMP: default group 5 00:02:30: ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 3 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 5 00:02:30: ISAKMP: auth RSA sig 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 4 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash MD5 00:02:30: ISAKMP: default group 5 00:02:30: ISAKMP: auth RSA sig 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 5 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 2 00:02:30: ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 6 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash MD5 00:02:30: ISAKMP: default group 2 00:02:30: ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 7 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 2 00:02:30: ISAKMP: auth RSA sig 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 8 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash MD5 00:02:30: ISAKMP: default group 2 00:02:30: ISAKMP: auth RSA sig 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 9 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 1 00:02:30: ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 10 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash MD5 00:02:30: ISAKMP: default group 1 00:02:30: ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 11 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 1 00:02:30: ISAKMP: auth RSA sig 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 12 against priority 1 policy 00:02:30: ISAKMP: encryption 3DES-CBC 00:02:30: ISAKMP: hash MD5 00:02:30: ISAKMP: default group 1 00:02:30: ISAKMP: auth RSA sig 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Encryption algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 13 against priority 1 policy 00:02:30: ISAKMP: encryption DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 5 00:02:30: ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Diffie-Hellman group offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 14 against priority 1 policy 00:02:30: ISAKMP: encryption DES-CBC 00:02:30: ISAKMP: hash MD5 00:02:30: ISAKMP: default group 5 00:02:30:

ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Hash algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 15 against priority 1 policy 00:02:30: ISAKMP: encryption DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 5 00:02:30: ISAKMP: auth RSA sig 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Diffie-Hellman group offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 16 against priority 1 policy 00:02:30: ISAKMP: encryption DES-CBC 00:02:30: ISAKMP: hash MD5 00:02:30: ISAKMP: default group 5 00:02:30: ISAKMP: auth RSA sig 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:30: ISAKMP (0:1): Hash algorithm offered does not match policy! 00:02:30: ISAKMP (0:1): atts are not acceptable. Next payload is 3 00:02:30: ISAKMP (0:1): Checking ISAKMP transform 17 against priority 1 policy 00:02:30: ISAKMP: encryption DES-CBC 00:02:30: ISAKMP: hash SHA 00:02:30: ISAKMP: default group 2 00:02:30: ISAKMP: auth XAUTHInitRSA 00:02:30: ISAKMP: life type in seconds 00:02:30: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B **00:02:30: ISAKMP (0:1): atts are acceptable. Next payload is 3** 00:02:30: CryptoEngine0: generate alg parameter 00:02:31: CRYPTO_ENGINE: Dh phase 1 status: 0 00:02:31: CRYPTO_ENGINE: Dh phase 1 status: 0 00:02:31: ISAKMP (0:1): processing vendor id payload 00:02:31: ISAKMP (0:1): processing vendor id payload 00:02:31: ISAKMP (0:1): processing vendor id payload 00:02:31: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PROCESS_MAIN_MODE Old State = IKE_R_MM1 New State = IKE_R_MM1 00:02:31: ISAKMP (0:1): sending packet to 171.69.89.129 (R) MM_SA_SETUP 00:02:31: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PROCESS_COMPLETE Old State = IKE_R_MM1 New State = IKE_R_MM2 00:02:31: ISAKMP (0:1): received packet from 171.69.89.129 (R) MM_SA_SETUP 00:02:31: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_MM_EXCH Old State = IKE_R_MM2 New State = IKE_R_MM3 00:02:31: ISAKMP (0:1): processing KE payload. message ID = 0 00:02:31: CryptoEngine0: generate alg parameter 00:02:31: ISAKMP (0:1): processing NONCE payload. message ID = 0 00:02:31: CryptoEngine0: calculate pkey hmac for conn id 1 00:02:31: CryptoEngine0: create ISAKMP SKEYID for conn id 1 00:02:31: ISAKMP (0:1): SKEYID state generated 00:02:31: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PROCESS_MAIN_MODE Old State = IKE_R_MM3 New State = IKE_R_MM3 00:02:31: ISAKMP (0:1): sending packet to 171.69.89.129 (R) MM_KEY_EXCH 00:02:31: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PROCESS_COMPLETE Old State = IKE_R_MM3 New State = IKE_R_MM4 00:02:31: ISAKMP (0:1): received packet from 171.69.89.129 (R) MM_KEY_EXCH 00:02:31: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_MM_EXCH Old State = IKE_R_MM4 New State = IKE_R_MM5 00:02:31: ISAKMP (0:1): processing ID payload. message ID = 0 **00:02:31: ISAKMP (0:1): processing CERT payload. message ID = 0 00:02:31: ISAKMP (0:1): processing a CT_X509_SIGNATURE cert 00:02:31: CRYPTO_PKI: status = 0: poll CRL ldap search: server=171.69.89.126, base=CN = CRL1, OU = sjvpn, O = cisco, C = us, attribute= : scope=2, filter=cn=CRL1 00:02:31: CRYPTO_PKI: ldap_bind() succeeded. 00:02:32: CRYPTO_PKI: set CRL update timer with delay: 89703 00:02:32: CRYPTO_PKI: the current router time: 00:00:39 UTC Apr 9 2002 00:02:32: CRYPTO_PKI: the last CRL update time: 23:55:42 UTC Apr 8 2002 00:02:32: CRYPTO_PKI: the next CRL update time: 00:55:42 UTC Apr 10 2002 00:02:32: CRYPTO_PKI: status = 0: failed to get public key from the storage 00:02:32: CRYPTO_PKI: status = 65535: failed to get issuer pubkey in cert 00:02:32: CRYPTO_PKI: status = 0: failed to get public key from the storage 00:02:32: CRYPTO_PKI: status = 65535: failed to get issuer pubkey in cert 00:02:32: CRYPTO_PKI: status = 0: failed to get public key from the storage 00:02:32: CRYPTO_PKI: status = 65535: failed to get issuer pubkey in cert 00:02:32: CRYPTO_PKI: transaction GetCRL completed 00:02:32: CRYPTO_PKI: blocking callback received status: 105 00:02:32: CRYPTO_PKI: Certificate verified, chain status= 1 00:02:32: ISAKMP (0:1): OU = sjvpn 00:02:32: ISAKMP (0:1): processing CERT_REQ payload. message ID = 0 00:02:32: ISAKMP (0:1): peer wants a CT_X509_SIGNATURE cert 00:02:32: ISAKMP (0:1): peer want cert issued by OU = sjvpn, O = cisco, C = us** 00:02:32: ISAKMP (0:1): processing SIG payload. message ID = 0 00:02:32: Crypto engine 0: RSA decrypt with public key 00:02:32: CryptoEngine0: CRYPTO_RSA_PUB_DECRYPT 00:02:32: CryptoEngine0: generate hmac context for conn id 1 00:02:32: ISAKMP (0:1): processing NOTIFY INITIAL_CONTACT protocol 1 spi 0, message ID = 0, sa = 62D99794 00:02:32: ISAKMP (0:1): Process initial contact, bring down existing phase 1 and 2 SA's 00:02:32: ISAKMP (0:1): returning IP addr to the address pool 00:02:32: ISAKMP (0:1): peer does not do paranoid keepalives. **00:02:32: ISAKMP (0:1): SA has been authenticated with 171.69.89.129** 00:02:32: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PROCESS_MAIN_MODE Old State = IKE_R_MM5 New State = IKE_R_MM5 00:02:32: IPSEC(key_engine): got a queue event... 00:02:32: IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP 00:02:32: IPSEC(key_engine_delete_sas): delete all SAs shared with 171.69.89.129 00:02:32: ISAKMP (0:1): SA is doing RSA signature authentication plus XAUTH using id type ID_FQDN 00:02:32: ISAKMP (1): ID payload next-payload : 6 type : 2 protocol : 17 port : 500 length : 18 00:02:32: ISAKMP (1): Total payload length: 22 00:02:32: CryptoEngine0: generate hmac context for conn id 1 00:02:32:

Crypto engine 0: RSA encrypt with private key 00:02:32: CryptoEngine0: CRYPTO_RSA_PRIV_ENCRYPT 00:02:32: CryptoEngine0: clear dh number for conn id 1 00:02:32: ISAKMP (0:1): sending packet to 171.69.89.129 (R) CONF_XAUTH 00:02:32: CryptoEngine0: generate hmac context for conn id 1 00:02:32: ISAKMP (0:1): sending packet to 171.69.89.129 (R) CONF_XAUTH 00:02:32: ISAKMP: Sending phase 1 responder lifetime 86400 00:02:32: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PROCESS_COMPLETE Old State = IKE_R_MM5 New State = IKE_P1_COMPLETE **00:02:32: ISAKMP (0:1): Need XAUTH** 00:02:32: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT 00:02:32: ISAKMP: got callback 1 00:02:32: ISAKMP/xauth: request attribute XAUTH_TYPE_V2 00:02:32: ISAKMP/xauth: request attribute XAUTH_MESSAGE_V2 00:02:32: ISAKMP/xauth: request attribute XAUTH_USER_NAME_V2 00:02:32: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2 00:02:32: CryptoEngine0: generate hmac context for conn id 1 00:02:32: ISAKMP (0:1): initiating peer config to 171.69.89.129. ID = -670289125 00:02:32: ISAKMP (0:1): sending packet to 171.69.89.129 (R) CONF_XAUTH 00:02:32: ISAKMP (0:1): Input = IKE_MESG_FROM_AAA, IKE_AAA_START_LOGIN Old State = IKE_XAUTH_AAA_START_LOGIN_AWAIT New State = IKE_XAUTH_REQ_SENT 00:02:36: ISAKMP (0:1): received packet from 171.69.89.129 (R) CONF_XAUTH 00:02:36: ISAKMP (0:1): processing transaction payload from 171.69.89.129. message ID = -670289125 00:02:36: CryptoEngine0: generate hmac context for conn id 1 00:02:36: ISAKMP: Config payload REPLY 00:02:36: ISAKMP/xauth: reply attribute XAUTH_TYPE_V2 unexpected 00:02:36: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2 00:02:36: ISAKMP/xauth: reply attribute XAUTH_USER_PASSWORD_V2 00:02:36: ISAKMP (0:1): deleting node -670289125 error FALSE reason "done with xauth request/reply exchange" 00:02:36: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_CFG_REPLY Old State = IKE_XAUTH_REQ_SENT New State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT 00:02:36: ISAKMP: got callback 1 00:02:36: CryptoEngine0: generate hmac context for conn id 1 00:02:36: ISAKMP (0:1): initiating peer config to 171.69.89.129. ID = -1610220250 00:02:36: ISAKMP (0:1): sending packet to 171.69.89.129 (R) CONF_XAUTH 00:02:36: ISAKMP (0:1): Input = IKE_MESG_FROM_AAA, IKE_AAA_CONT_LOGIN Old State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT New State = IKE_XAUTH_SET_SENT 00:02:36: ISAKMP (0:1): received packet from 171.69.89.129 (R) CONF_XAUTH 00:02:36: ISAKMP (0:1): processing transaction payload from 171.69.89.129. message ID = -1610220250 00:02:36: CryptoEngine0: generate hmac context for conn id 1 00:02:36: ISAKMP: Config payload ACK **00:02:36: ISAKMP (0:1): XAUTH ACK Processed** 00:02:36: ISAKMP (0:1): deleting node -1610220250 error FALSE reason "done with transaction" **00:02:36: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_CFG_ACK Old State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE** 00:02:36: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE 00:02:36: ISAKMP (0:1): received packet from 171.69.89.129 (R) QM_IDLE 00:02:36: ISAKMP (0:1): processing transaction payload from 171.69.89.129. message ID = 1789347264 00:02:36: CryptoEngine0: generate hmac context for conn id 1 **00:02:36: ISAKMP: Config payload REQUEST** 00:02:36: ISAKMP (0:1): checking request: 00:02:36: ISAKMP: IP4_ADDRESS 00:02:36: ISAKMP: IP4_NETMASK 00:02:36: ISAKMP: IP4_DNS 00:02:36: ISAKMP: IP4_NBNS 00:02:36: ISAKMP: ADDRESS_EXPIRY 00:02:36: ISAKMP: APPLICATION_VERSION 00:02:36: ISAKMP: UNKNOWN Unknown Attr: 0x7000 00:02:36: ISAKMP: UNKNOWN Unknown Attr: 0x7001 00:02:36: ISAKMP: DEFAULT_DOMAIN 00:02:36: ISAKMP: SPLIT_INCLUDE 00:02:36: ISAKMP: UNKNOWN Unknown Attr: 0x7007 00:02:36: ISAKMP: UNKNOWN Unknown Attr: 0x7008 00:02:36: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_CFG_REQUEST Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT 00:02:36: ISAKMP: got callback 1 00:02:36: ISAKMP (0:1): attributes sent in message: 00:02:36: Address: 0.2.0.0 00:02:36: ISAKMP (0:1): allocating address 10.1.1.10 00:02:36: ISAKMP: Sending private address: 10.1.1.10 00:02:36: ISAKMP: Unknown Attr: IP4_NETMASK (0x2) 00:02:36: ISAKMP: Sending IP4_DNS server address: 10.1.1.5 00:02:36: ISAKMP: Sending IP4_NBNS server address: 10.1.1.5 00:02:36: ISAKMP: Sending ADDRESS_EXPIRY seconds left to use the address: 86394 00:02:36: ISAKMP: Sending APPLICATION_VERSION string: Cisco Internetwork Operating System Software IOS (tm) 3600 Software (C3640-IK8O3S-M), Version 12.2(8)T, RELEASE SOFTWARE (fc2) TAC Support: http://www.cisco.com/tac Copyright (c) 1986-2002 by cisco Systems, Inc. Compiled Thu 14-Feb-02 19:36 by ccai 00:02:36: ISAKMP: Unknown Attr: UNKNOWN (0x7000) 00:02:36: ISAKMP: Unknown Attr: UNKNOWN (0x7001) 00:02:36: ISAKMP: Sending DEFAULT_DOMAIN default domain name: sjpki.com 00:02:36: ISAKMP: Sending split include name 101 network 10.1.0.0 mask 255.255.0.0, protocol 0, src port 0, dst port 0 00:02:36: ISAKMP: Unknown Attr: UNKNOWN (0x7007) 00:02:36: ISAKMP: Unknown Attr: UNKNOWN (0x7008) 00:02:36: CryptoEngine0: generate hmac context for conn id 1 00:02:36: ISAKMP (0:1): responding to peer config from 171.69.89.129. ID = 1789347264 **00:02:36: ISAKMP (0:1): sending packet to 171.69.89.129 (R) CONF_ADDR** 00:02:36: ISAKMP (0:1): deleting node 1789347264 error FALSE reason "" 00:02:36: ISAKMP (0:1): Input = IKE_MESG_FROM_AAA, IKE_AAA_GROUP_ATTR Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE 00:02:36: ISAKMP (0:1): received packet from 171.69.89.129 (R) QM_IDLE 00:02:36: CryptoEngine0: generate hmac context for conn id 1 00:02:36: ISAKMP (0:1): processing HASH payload. message ID = -1460041169 00:02:36: ISAKMP (0:1): processing SA payload. message ID = -1460041169 **00:02:36: ISAKMP (0:1): Checking IPSec**

proposal 1 00:02:36: ISAKMP: transform 1, ESP_3DES 00:02:36: ISAKMP: attributes in transform: 00:02:36: ISAKMP: authenticator is HMAC-MD5 00:02:36: ISAKMP: encaps is 1 00:02:36: ISAKMP: SA life type in seconds 00:02:36: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:36: validate proposal 0 00:02:36: IPSEC(validate_proposal): transform proposal (prot 3, trans 3, hmac_alg 1) not supported 00:02:36: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:36: ISAKMP (0:1): skipping next ANDed proposal (1) 00:02:36: ISAKMP (0:1): Checking IPSec proposal 2 00:02:36: ISAKMP: transform 1, ESP_3DES 00:02:36: ISAKMP: attributes in transform: 00:02:36: ISAKMP: authenticator is HMAC-SHA 00:02:36: ISAKMP: encaps is 1 00:02:36: ISAKMP: SA life type in seconds 00:02:36: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:36: validate proposal 0 00:02:36: IPSEC(validate_proposal): transform proposal (prot 3, trans 3, hmac_alg 2) not supported 00:02:36: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:36: ISAKMP (0:1): skipping next ANDed proposal (2) 00:02:36: ISAKMP (0:1): Checking IPSec proposal 3 00:02:36: ISAKMP: transform 1, ESP_3DES 00:02:36: ISAKMP: attributes in transform: 00:02:36: ISAKMP: authenticator is HMAC-MD5 00:02:36: ISAKMP: encaps is 1 00:02:36: ISAKMP: SA life type in seconds 00:02:36: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:36: validate proposal 0 00:02:36: IPSEC(validate_proposal): transform proposal (prot 3, trans 3, hmac_alg 1) not supported 00:02:36: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:36: ISAKMP (0:1): Checking IPSec proposal 4 00:02:36: ISAKMP: transform 1, ESP_3DES 00:02:36: ISAKMP: attributes in transform: 00:02:36: ISAKMP: authenticator is HMAC-SHA 00:02:36: ISAKMP: encaps is 1 00:02:36: ISAKMP: SA life type in seconds 00:02:36: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:36: validate proposal 0 00:02:36: IPSEC(validate_proposal): transform proposal (prot 3, trans 3, hmac_alg 2) not supported 00:02:36: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:36: ISAKMP (0:1): Checking IPSec proposal 5 00:02:36: ISAKMP: transform 1, ESP_DES 00:02:36: ISAKMP: attributes in transform: 00:02:36: ISAKMP: authenticator is HMAC-MD5 00:02:36: ISAKMP: encaps is 1 00:02:36: ISAKMP: SA life type in seconds 00:02:36: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:36: validate proposal 0 00:02:36: ISAKMP (0:1): atts are acceptable. 00:02:36: ISAKMP (0:1): Checking IPSec proposal 5 00:02:36: ISAKMP (0:1): transform 1, IPPCP LZS 00:02:36: ISAKMP: attributes in transform: 00:02:36: ISAKMP: encaps is 1 00:02:36: ISAKMP: SA life type in seconds 00:02:36: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:36: IPSEC(validate_proposal): transform proposal (prot 4, trans 3, hmac_alg 0) not supported 00:02:36: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:36: ISAKMP (0:1): Checking IPSec proposal 6 00:02:36: ISAKMP: transform 1, ESP_DES 00:02:36: ISAKMP: attributes in transform: 00:02:36: ISAKMP: authenticator is HMAC-SHA 00:02:36: ISAKMP: encaps is 1 00:02:36: ISAKMP: SA life type in seconds 00:02:36: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:36: validate proposal 0 00:02:36: IPSEC(validate_proposal): transform proposal (prot 3, trans 2, hmac_alg 2) not supported 00:02:36: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:36: ISAKMP (0:1): skipping next ANDed proposal (6) 00:02:36: ISAKMP (0:1): Checking IPSec proposal 7 00:02:36: ISAKMP: transform 1, ESP_DES 00:02:36: ISAKMP: attributes in transform: 00:02:36: ISAKMP: authenticator is HMAC-MD5 00:02:36: ISAKMP: encaps is 1 00:02:36: ISAKMP: SA life type in seconds 00:02:36: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:36: validate proposal 0 **00:02:36: ISAKMP (0:1): atts are acceptable.** 00:02:36: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 172.16.172.40, remote= 171.69.89.129, local_proxy= 172.16.172.40/255.255.255.255/0/0 (type=1), remote_proxy= 10.1.1.10/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 00:02:36: validate proposal request 0 00:02:36: ISAKMP (0:1): processing NONCE payload. message ID = -1460041169 00:02:36: ISAKMP (0:1): processing ID payload. message ID = -1460041169 00:02:36: ISAKMP (0:1): processing ID payload. message ID = -1460041169 00:02:36: ISAKMP (0:1): asking for 1 spis from ipsec 00:02:36: ISAKMP (0:1): Node -1460041169, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE 00:02:36: IPSEC(key_engine): got a queue event... 00:02:36: IPSEC(spi_response): getting spi 1289658319 for SA from 172.16.172.40 to 171.69.89.129 for prot 3 00:02:36: ISAKMP: received ke message (2/1) 00:02:36: CryptoEngine0: generate hmac context for conn id 1 00:02:36: ISAKMP (0:1): sending packet to 171.69.89.129 (R) QM_IDLE 00:02:36: ISAKMP (0:1): Node -1460041169, Input = IKE_MESG_FROM_IPSEC, IKE_SPI_REPLY Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2 00:02:36: ISAKMP (0:1): received packet from 171.69.89.129 (R) QM_IDLE 00:02:36: CryptoEngine0: generate hmac context for conn id 1 00:02:36: ipsec allocate flow 0 00:02:36: ipsec allocate flow 0 00:02:36: ISAKMP (0:1): Creating IPSec SAs 00:02:36: inbound SA from 171.69.89.129 to 172.16.172.40 (proxy 10.1.1.10 to 172.16.172.40) 00:02:36: has spi 0x4CDE9FCF and conn_id 2000 and flags 4 00:02:36: lifetime of 2147483 seconds 00:02:36: outbound SA from 172.16.172.40 to 171.69.89.129 (proxy 172.16.172.40 to 10.1.1.10) 00:02:36: has spi -154514029 and conn_id 2001 and flags C 00:02:36: lifetime of 2147483 seconds 00:02:36: ISAKMP (0:1): deleting node -1460041169 error FALSE reason "quick mode done (await()" 00:02:36: ISAKMP (0:1): Node -1460041169, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH Old State =

IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE 00:02:36: IPSEC(key_engine): got a queue event... **00:02:36: IPSEC(initialize_sas): , (key eng. msg.) INBOUND local= 172.16.172.40, remote= 171.69.89.129, local_proxy= 172.16.172.40/0.0.0.0/0/0 (type=1), remote_proxy= 10.1.1.10/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 2147483s and 0kb, spi= 0x4CDE9FCF(1289658319), conn_id= 2000, keysize= 0, flags= 0x4 00:02:36: IPSEC(initialize_sas): , (key eng. msg.) OUTBOUND local= 172.16.172.40, remote= 171.69.89.129, local_proxy= 172.16.172.40/0.0.0.0/0/0 (type=1), remote_proxy= 10.1.1.10/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 2147483s and 0kb, spi= 0xF6CA4D93(4140453267), conn_id= 2001, keysize= 0, flags= 0xC** 00:02:36: IPSEC(create_sa): sa created, (sa) sa_dest= 172.16.172.40, sa_prot= 50, sa_spi= 0x4CDE9FCF(1289658319), sa_trans= esp-des esp-md5-hmac , sa_conn_id= 2000 00:02:36: IPSEC(create_sa): sa created, (sa) sa_dest= 171.69.89.129, sa_prot= 50, sa_spi= 0xF6CA4D93(4140453267), sa_trans= esp-des esp-md5-hmac , sa_conn_id= 2001 00:02:36: ISAKMP: received ke message (4/1) 00:02:36: ISAKMP: Locking CONFIG struct 0x62D99D98 for crypto_ikmp_config_handle_kei_mess, count 2 00:02:37: ISAKMP (0:1): received packet from 171.69.89.129 (R) QM_IDLE 00:02:37: CryptoEngine0: generate hmac context for conn id 1 00:02:37: ISAKMP (0:1): processing HASH payload. message ID = 926518983 00:02:37: ISAKMP (0:1): processing SA payload. message ID = 926518983 00:02:37: ISAKMP (0:1): Checking IPSec proposal 1 00:02:37: ISAKMP: transform 1, ESP_3DES 00:02:37: ISAKMP: attributes in transform: 00:02:37: ISAKMP: authenticator is HMAC-MD5 00:02:37: ISAKMP: encaps is 1 00:02:37: ISAKMP: SA life type in seconds 00:02:37: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:37: validate proposal 0 00:02:37: IPSEC(validate_proposal): transform proposal (prot 3, trans 3, hmac_alg 1) not supported 00:02:37: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:37: ISAKMP (0:1): skipping next ANDed proposal (1) 00:02:37: ISAKMP (0:1): Checking IPSec proposal 2 00:02:37: ISAKMP: transform 1, ESP_3DES 00:02:37: ISAKMP: attributes in transform: 00:02:37: ISAKMP: authenticator is HMAC-SHA 00:02:37: ISAKMP: encaps is 1 00:02:37: ISAKMP: SA life type in seconds 00:02:37: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:37: validate proposal 0 00:02:37: IPSEC(validate_proposal): transform proposal (prot 3, trans 3, hmac_alg 2) not supported 00:02:37: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:37: ISAKMP (0:1): skipping next ANDed proposal (2) 00:02:37: ISAKMP (0:1): Checking IPSec proposal 3 00:02:37: ISAKMP: transform 1, ESP_3DES 00:02:37: ISAKMP: attributes in transform: 00:02:37: ISAKMP: authenticator is HMAC-MD5 00:02:37: ISAKMP: encaps is 1 00:02:37: ISAKMP: SA life type in seconds 00:02:37: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:37: validate proposal 0 00:02:37: IPSEC(validate_proposal): transform proposal (prot 3, trans 3, hmac_alg 1) not supported 00:02:37: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:37: ISAKMP (0:1): Checking IPSec proposal 4 00:02:37: ISAKMP: transform 1, ESP_3DES 00:02:37: ISAKMP: attributes in transform: 00:02:37: ISAKMP: authenticator is HMAC-SHA 00:02:37: ISAKMP: encaps is 1 00:02:37: ISAKMP: SA life type in seconds 00:02:37: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:37: validate proposal 0 00:02:37: IPSEC(validate_proposal): transform proposal (prot 3, trans 3, hmac_alg 2) not supported 00:02:37: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:37: ISAKMP (0:1): Checking IPSec proposal 5 00:02:37: ISAKMP: transform 1, ESP_DES 00:02:37: ISAKMP: attributes in transform: 00:02:37: ISAKMP: authenticator is HMAC-MD5 00:02:37: ISAKMP: encaps is 1 00:02:37: ISAKMP: SA life type in seconds 00:02:37: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:37: validate proposal 0 00:02:37: ISAKMP (0:1): atts are acceptable. 00:02:37: ISAKMP (0:1): Checking IPSec proposal 5 00:02:37: ISAKMP (0:1): transform 1, IPPCP LZS 00:02:37: ISAKMP: attributes in transform: 00:02:37: ISAKMP: encaps is 1 00:02:37: ISAKMP: SA life type in seconds 00:02:37: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:37: IPSEC(validate_proposal): transform proposal (prot 4, trans 3, hmac_alg 0) not supported 00:02:37: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:37: ISAKMP (0:1): Checking IPSec proposal 6 00:02:37: ISAKMP: transform 1, ESP_DES 00:02:37: ISAKMP: attributes in transform: 00:02:37: ISAKMP: authenticator is HMAC-SHA 00:02:37: ISAKMP: encaps is 1 00:02:37: ISAKMP: SA life type in seconds 00:02:37: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:37: validate proposal 0 00:02:37: IPSEC(validate_proposal): transform proposal (prot 3, trans 2, hmac_alg 2) not supported 00:02:37: ISAKMP (0:1): atts not acceptable. Next payload is 0 00:02:37: ISAKMP (0:1): skipping next ANDed proposal (6) 00:02:37: ISAKMP (0:1): Checking IPSec proposal 7 00:02:37: ISAKMP: transform 1, ESP_DES 00:02:37: ISAKMP: attributes in transform: 00:02:37: ISAKMP: authenticator is HMAC-MD5 00:02:37: ISAKMP: encaps is 1 00:02:37: ISAKMP: SA life type in seconds 00:02:37: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 00:02:37: validate proposal 0 00:02:37: ISAKMP (0:1): atts are acceptable. 00:02:37: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 172.16.172.40, remote= 171.69.89.129, local_proxy= 10.1.0.0/255.255.0.0/0/0 (type=4), remote_proxy= 10.1.1.10/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 00:02:37: validate proposal request 0 00:02:37: ISAKMP (0:1): processing NONCE payload. message ID = 926518983

00:02:37: ISAKMP (0:1): processing ID payload. message ID = 926518983 00:02:37: ISAKMP (0:1): processing ID payload. message ID = 926518983 00:02:37: ISAKMP (0:1): asking for 1 spis from ipsec 00:02:37: ISAKMP (0:1): Node 926518983, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE 00:02:37: IPSEC(key_engine): got a queue event... 00:02:37: IPSEC(spi_response): getting spi 1746304572 for SA from 172.16.172.40 to 171.69.89.129 for prot 3 00:02:37: ISAKMP: received ke message (2/1) 00:02:37: CryptoEngine0: generate hmac context for conn id 1 00:02:37: ISAKMP (0:1): sending packet to 171.69.89.129 (R) QM_IDLE 00:02:37: ISAKMP (0:1): Node 926518983, Input = IKE_MESG_FROM_IPSEC, IKE_SPI_REPLY Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2 00:02:37: ISAKMP (0:1): received packet from 171.69.89.129 (R) QM_IDLE 00:02:37: CryptoEngine0: generate hmac context for conn id 1 00:02:37: ipsec allocate flow 0 00:02:37: ipsec allocate flow 0 00:02:37: ISAKMP (0:1): Creating IPSec SAs 00:02:37: inbound SA from 171.69.89.129 to 172.16.172.40 (proxy 10.1.1.10 to 10.1.0.0) 00:02:37: has spi 0x68167E3C and conn_id 2002 and flags 4 00:02:37: lifetime of 2147483 seconds 00:02:37: outbound SA from 172.16.172.40 to 171.69.89.129 (proxy 10.1.0.0 to 10.1.1.10) 00:02:37: has spi -697634356 and conn_id 2003 and flags C 00:02:37: lifetime of 2147483 seconds 00:02:37: ISAKMP (0:1): deleting node 926518983 error FALSE reason "quick mode done (await()" 00:02:37: ISAKMP (0:1): Node 926518983, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE 00:02:37: IPSEC(key_engine): got a queue event... **00:02:37: IPSEC(initialize_sas): , (key eng. msg.) INBOUND local= 172.16.172.40, remote= 171.69.89.129, local_proxy= 10.1.0.0/255.255.0.0/0/0 (type=4), remote_proxy= 10.1.1.10/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 2147483s and 0kb, spi= 0x68167E3C(1746304572), conn_id= 2002, keysize= 0, flags= 0x4 00:02:37: IPSEC(initialize_sas): , (key eng. msg.) OUTBOUND local= 172.16.172.40, remote= 171.69.89.129, local_proxy= 10.1.0.0/255.255.0.0/0/0 (type=4), remote_proxy= 10.1.1.10/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 2147483s and 0kb, spi= 0xD66AF1CC(3597332940), conn_id= 2003, keysize= 0, flags= 0xC** 00:02:37: IPSEC(create_sa): sa created, (sa) sa_dest= 172.16.172.40, sa_prot= 50, sa_spi= 0x68167E3C(1746304572), sa_trans= esp-des esp-md5-hmac , sa_conn_id= 2002 00:02:37: IPSEC(create_sa): sa created, (sa) sa_dest= 171.69.89.129, sa_prot= 50, sa_spi= 0xD66AF1CC(3597332940), sa_trans= esp-des esp-md5-hmac , sa_conn_id= 2003

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