

# ASA/PIX: IPsec VPN-clientadressering met DHCP-server met ASDM-configuratievoorbeeld

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## [Inleiding](#)

Dit document beschrijft hoe u de Cisco 5500 Series adaptieve security applicatie (ASA) kunt configureren om van de DHCP-server het IP-adres van de client te maken naar alle VPN-clients met behulp van de Adaptieve Security Devices Manager (ASDM) of CLI. De ASDM levert veiligheidsbeheer en controle van wereldklasse door middel van een intuïtieve, makkelijk te gebruiken web-gebaseerde beheerinterface. Nadat de Cisco ASA-configuratie is voltooid, kan deze worden geverifieerd met behulp van de Cisco VPN-client.

Raadpleeg [PIX/ASA 7.x en Cisco VPN-client 4.x met Windows 2003 IAS RADIUS \(Against Active Directory\) verificatievoorbeeld](#) voor het instellen van de VPN-verbinding op afstand tussen een Cisco VPN-client (4.x voor Windows) en de PIX 500 Series security applicatie 7.x. De externe VPN-clientgebruiker authenticceert de actieve map met een Microsoft Windows 2003-server voor internetverificatie (IAS) RADIUS.

Raadpleeg [PIX/ASA 7.x en Cisco VPN-client 4.x voor Cisco Secure ACS-verificatie Configuratievoorbeeld](#) om een VPN-verbinding op afstand in te stellen tussen een Cisco VPN-client (4.x voor Windows) en PIX 500 Series security applicatie 7.x met een Cisco Secure Access

Control Server (ACS versie 3.2) voor uitgebreide verificatie (Xauth).

## Voorwaarden

### Vereisten

Dit document gaat ervan uit dat de ASA volledig operationeel en geconfigureerd is om Cisco ASDM of CLI in staat te stellen configuratiewijzigingen door te voeren.

**Opmerking:** Raadpleeg [HTTPS-toegang voor ASDM](#) of [PIX/ASA 7.x: SSH in het Voorbeeld van de configuratie van binnen en buiten](#) om het apparaat extern te kunnen configureren door de ASDM of Secure Shell (SSH).

### Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- Software voor Cisco adaptieve security applicatie, versie 7.x en hoger
- Adaptieve Security Office Manager versie 5.x en hoger
- Cisco VPN-clientversie 4.x en hoger

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u de potentiële impact van elke opdracht begrijpen.

### Verwante producten

Deze configuratie kan ook worden gebruikt met Cisco PIX security applicatie versie 7.x en hoger.

### Conventies

Raadpleeg [Cisco Technical Tips Conventions \(Conventies voor technische tips van Cisco\) voor meer informatie over documentconventies.](#)

## Achtergrondinformatie

VPN's voor externe toegang voldoen aan de vereisten van de mobiele medewerkers om zich veilig aan te sluiten op het netwerk van de organisatie. Mobiele gebruikers kunnen een beveiligde verbinding opzetten met behulp van de VPN-clientsoftware die op hun pc's is geïnstalleerd. De VPN-client initieert een verbinding met een centraal siteapparaat dat is geconfigureerd om deze verzoeken te aanvaarden. In dit voorbeeld is het centrale plaatsapparaat een ASA 5500 Series adaptieve security applicatie die dynamische crypto kaarten gebruikt.

In het beheer van het veiligheidsapparaat moeten we IP adressen configureren die een client verbinden met een resource op het privénetwerk, door de tunnel en de client laten functioneren alsof deze direct verbonden is met het privénetwerk. Bovendien hebben we alleen te maken met de privé IP-adressen die aan klanten worden toegewezen. De IP-adressen die aan andere bronnen op uw privénetwerk zijn toegewezen, maken deel uit van uw netwerkbeheerverantwoordelijkheden en maken geen deel uit van VPN-beheer. Daarom, wanneer

IP adressen hier worden besproken, bedoelen we die IP adressen beschikbaar in uw privé netwerk adresseringsschema die de client als tunneleindpunt laten functioneren.

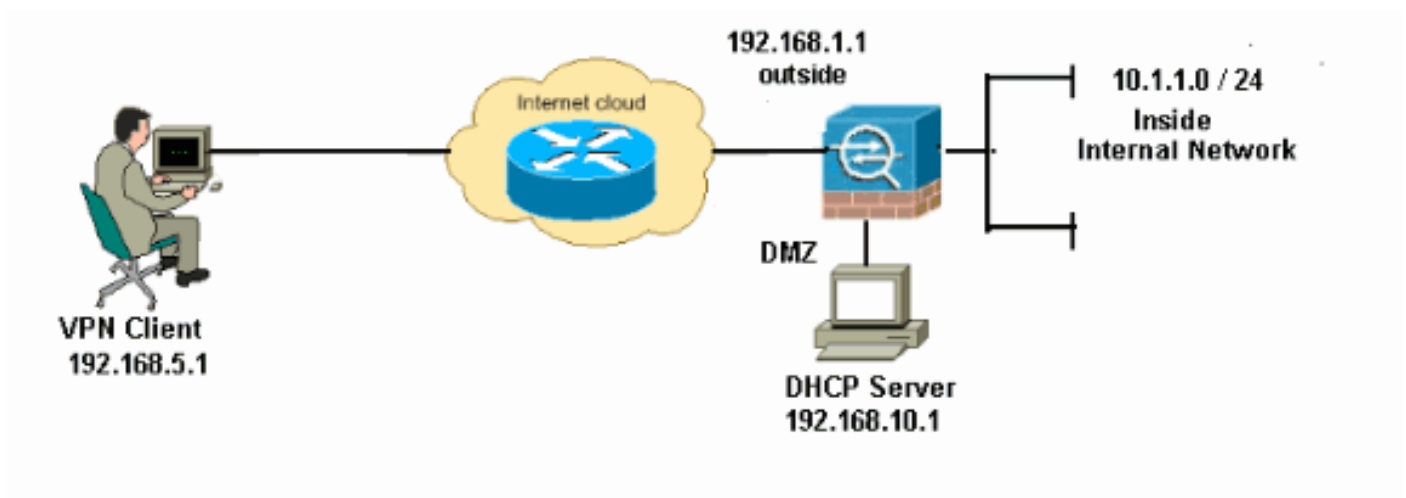
## Configureren

Deze sectie bevat informatie over het configureren van de functies die in dit document worden beschreven.

**Opmerking:** Gebruik het [Opdrachtupgereedschap](#) (alleen geregistreeerde klanten) om meer informatie te verkrijgen over de opdrachten die in deze sectie worden gebruikt.

## Netwerkdigram

Het netwerk in dit document is als volgt opgebouwd:



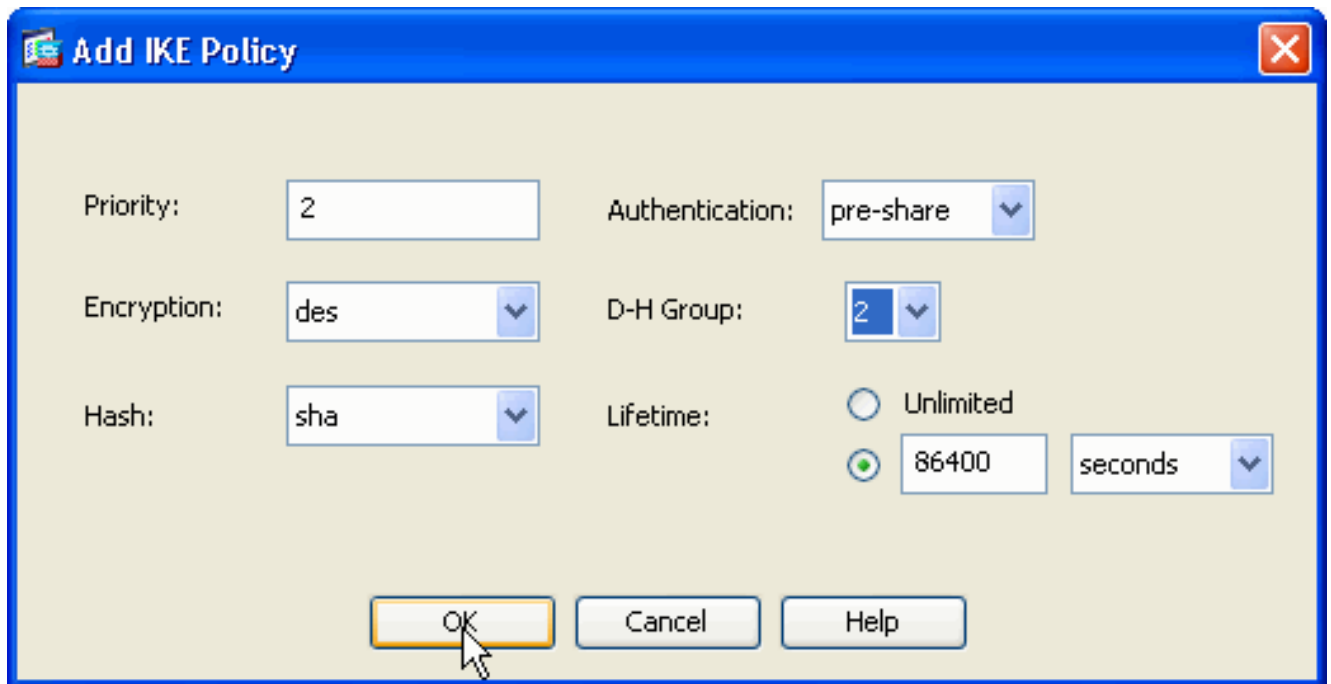
**Opmerking:** de IP-adresseringsschema's die in deze configuratie worden gebruikt, zijn niet wettelijk routeerbaar op het internet. Het zijn RFC 1918-adressen die in een labomgeving werden gebruikt.

## Externe toegang instellen (IPSec)

### ASDM-procedure

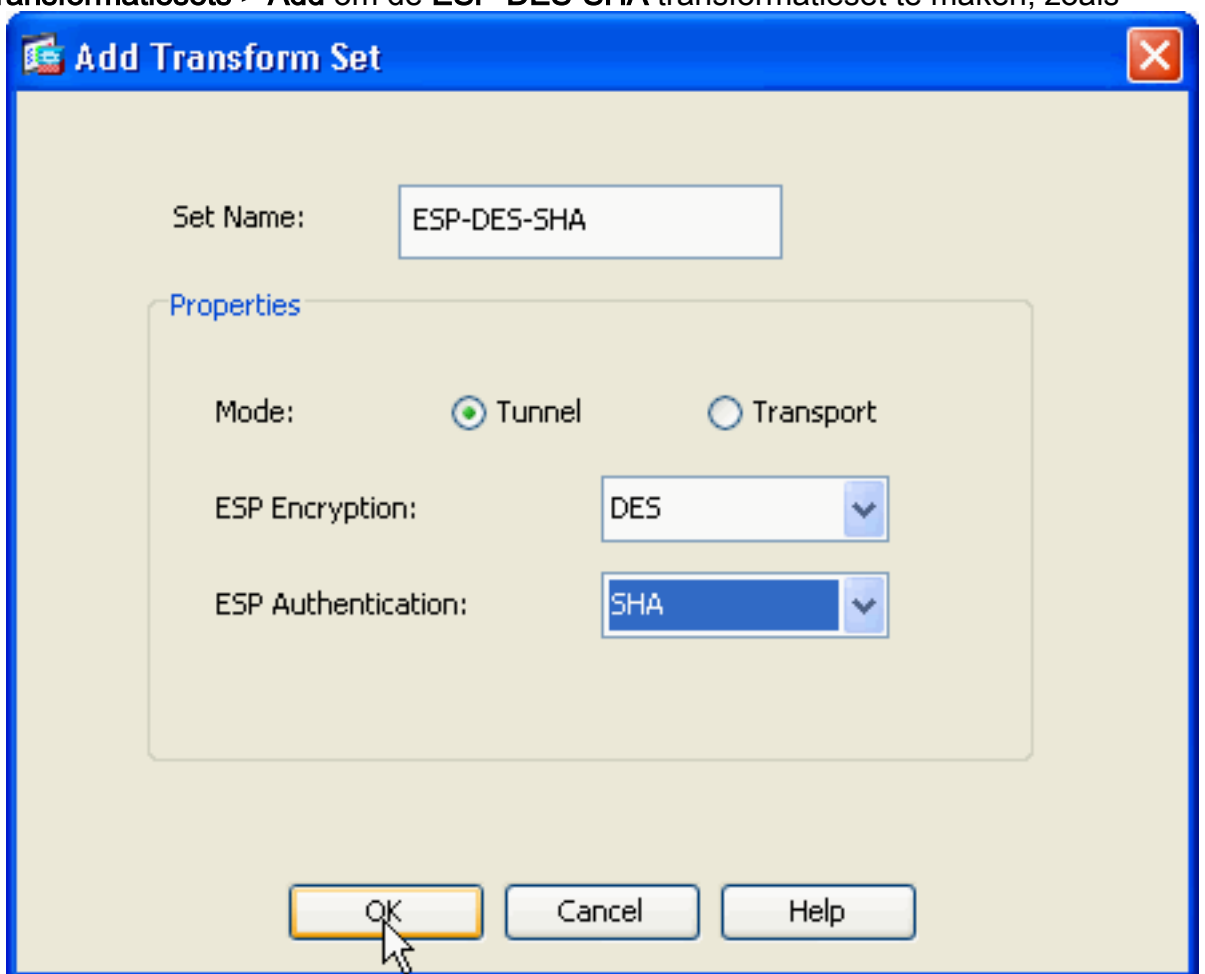
Voltooi deze stappen om de externe VPN-toegang te configureren:

1. Kies **Configuration > Remote Access VPN > Network (Client) Access > Advanced > IPSec > IKE-beleid > Add** om een ISAKMP-beleid 2 te maken, zoals wordt getoond.



Klik op OK en Toepassen.

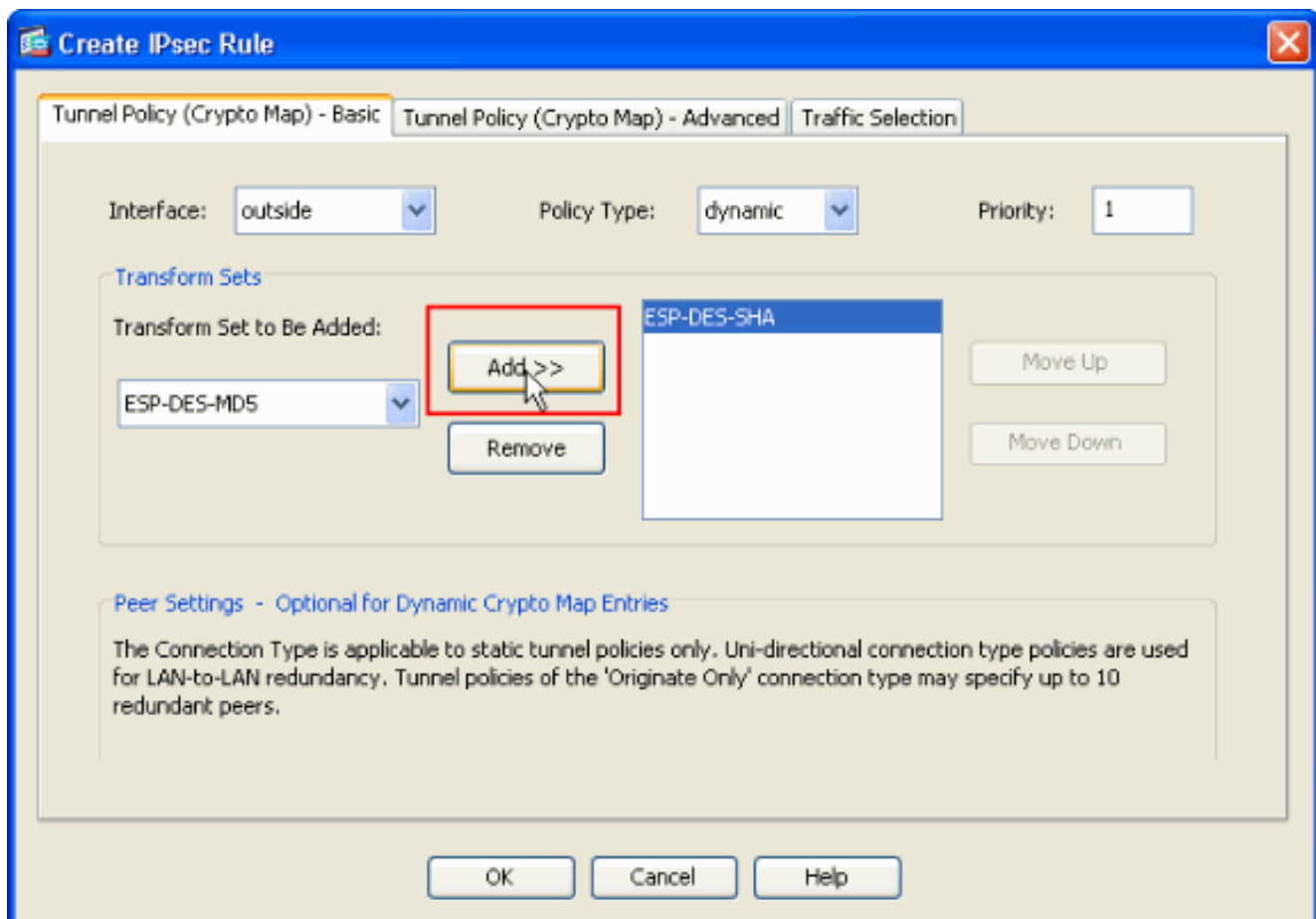
2. Kies **Configuration > Remote Access VPN > Network (Client) Access > Advanced > IPsec > IPsec Transformatiesets > Add** om de **ESP-DES-SHA** transformatieset te maken, zoals



getoond.

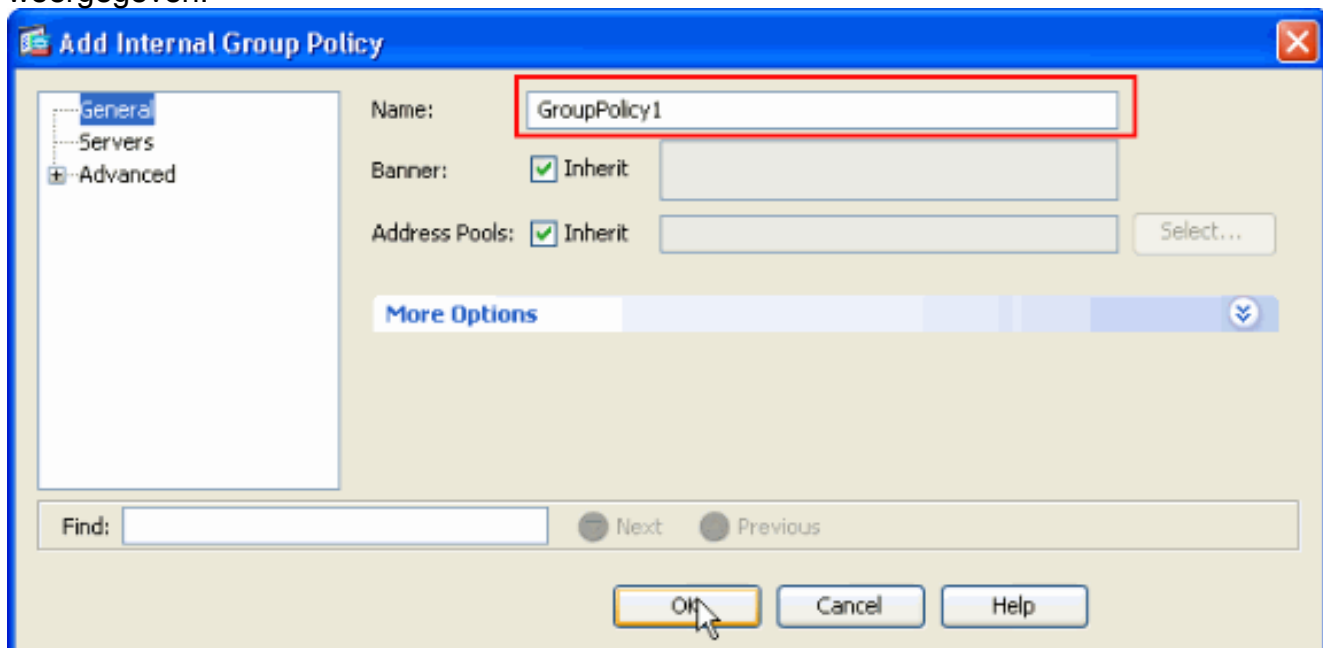
Klik op OK en Toepassen.

3. Kies **Configuration > Remote Access VPN > Network (Client) Access > Advanced > IPsec > Crypto Maps > Add** om een crypto-kaart te maken met dynamisch beleid van prioriteit 1, zoals  
getoond.



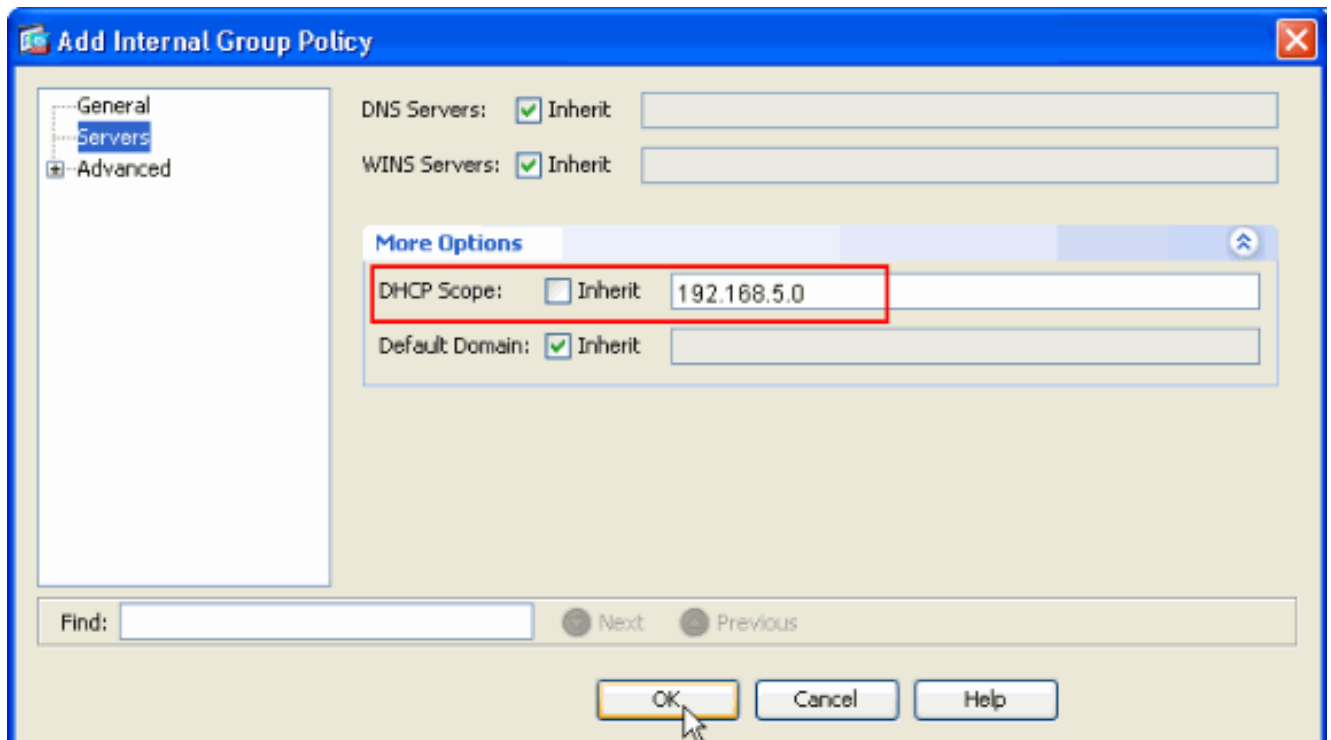
Klik op OK en Toepassen.

4. Kies **Configuration > Remote Access VPN > Network (Client) Access > Advanced > Group Policy > Add>Intern Group Policy** om een groepsbeleid (bijvoorbeeld **Group Policy1**) te maken, zoals wordt weergegeven.



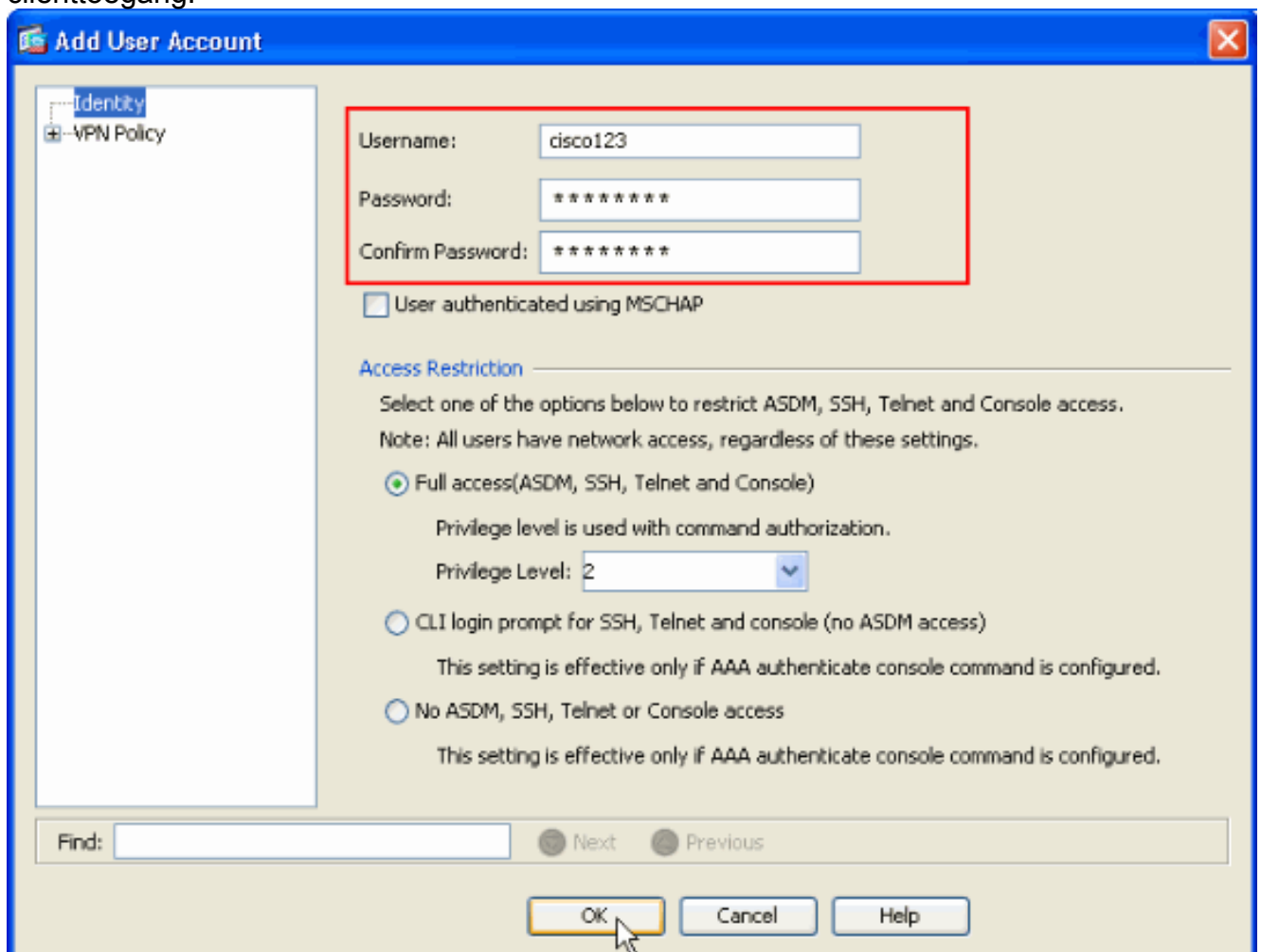
Klik op OK en Toepassen.

5. Kies **Configuration > Remote Access VPN > Network (Client) Access > Advanced > Group Policy > Add>Intern groepsbeleid>servers>** om de **DHCP-toepassingsbereik** voor de VPN-clientgebruikers dynamisch te configureren.



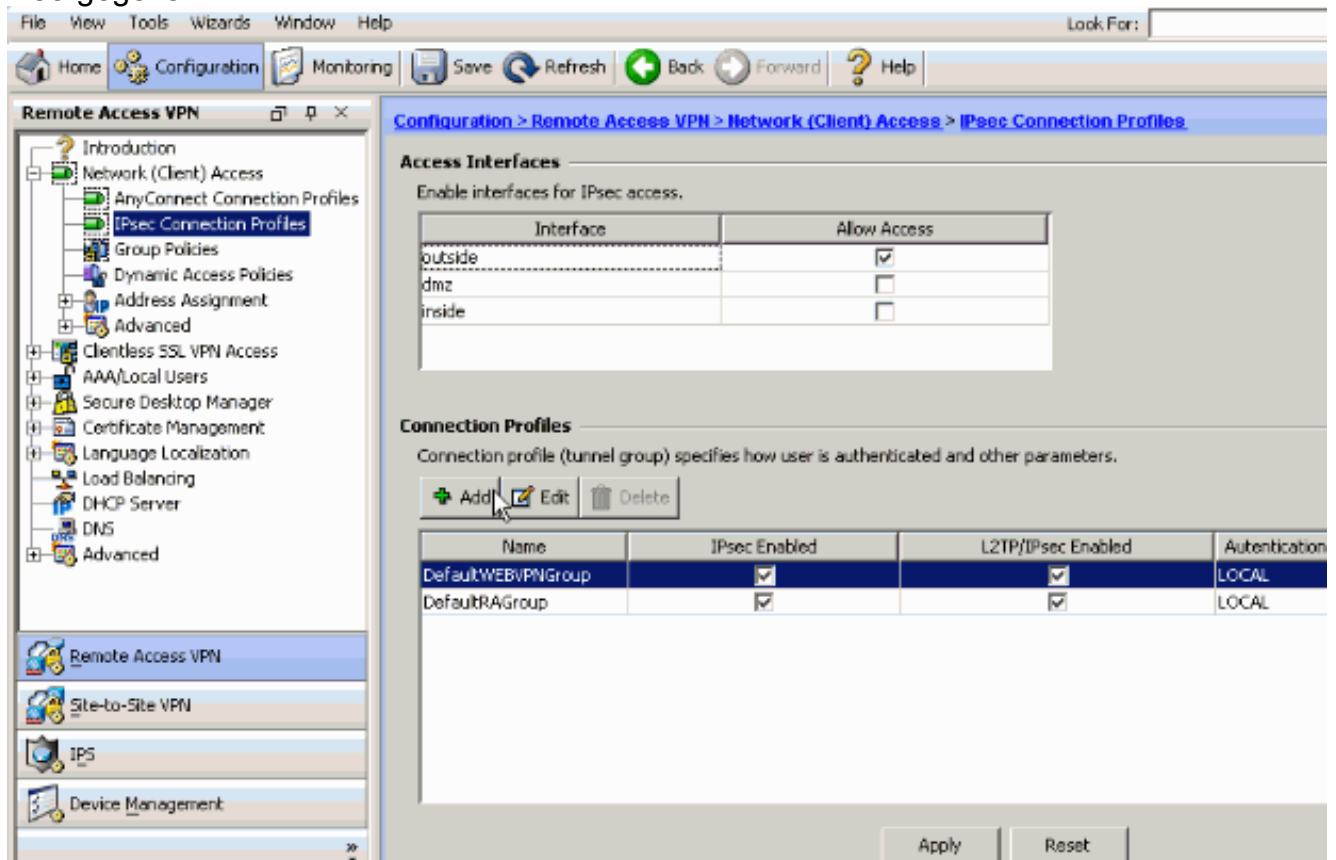
Klik op **OK** en **Toepassen**. **Opmerking:** de configuratie van DHCP Relay is optioneel. Raadpleeg [DHCP-adressering](#) voor meer informatie [configureren](#).

6. Kies **Configuration > Remote Access VPN > AAA-instelling > Local Gebruikers > Add** om de gebruikersaccount te maken (bijvoorbeeld gebruikersnaam - cisco123 en Wachtwoord - cisco123) voor VPN-clienttoegang.



7. Kies **Configuration > Remote Access VPN > Network (Client) Access > IPsec Connection**

**Profiles > Add** om een tunnelgroep toe te voegen (bijvoorbeeld **TunnelGroup1** en de PreShared Key zoals cisco123), zoals wordt weergegeven.



Kies onder het tabblad **Basic** de servergroep als **LOCAL** voor het veld Gebruikersverificatie. Kies **Groepsbeleid1** als het groepsbeleid voor het veld Standaardgroepsbeleid. Geef het IP-adres van de DHCP-server op in de ruimte die voor **DHCP-servers** is meegeleverd.

**Add IPsec Remote Access Connection Profile**

Basic  
+ Advanced

Name: TunnelGroup1

**IKE Peer Authentication**

Pre-shared Key: \*\*\*\*\*

Identity Certificate: -- None -- Manage...

**User Authentication**

Server Group: LOCAL Manage...

Fallback:  Use LOCAL if Server Group fails

**Client Address Assignment**

DHCP Servers: 192.168.10.1

Client Address Pools: Select...

**Default Group Policy**

Group Policy: GroupPolicy1 Manage...

(Following fields are attributed of the group policy selected above.)

Enable IPsec protocol

Enable L2TP over IPsec protocol

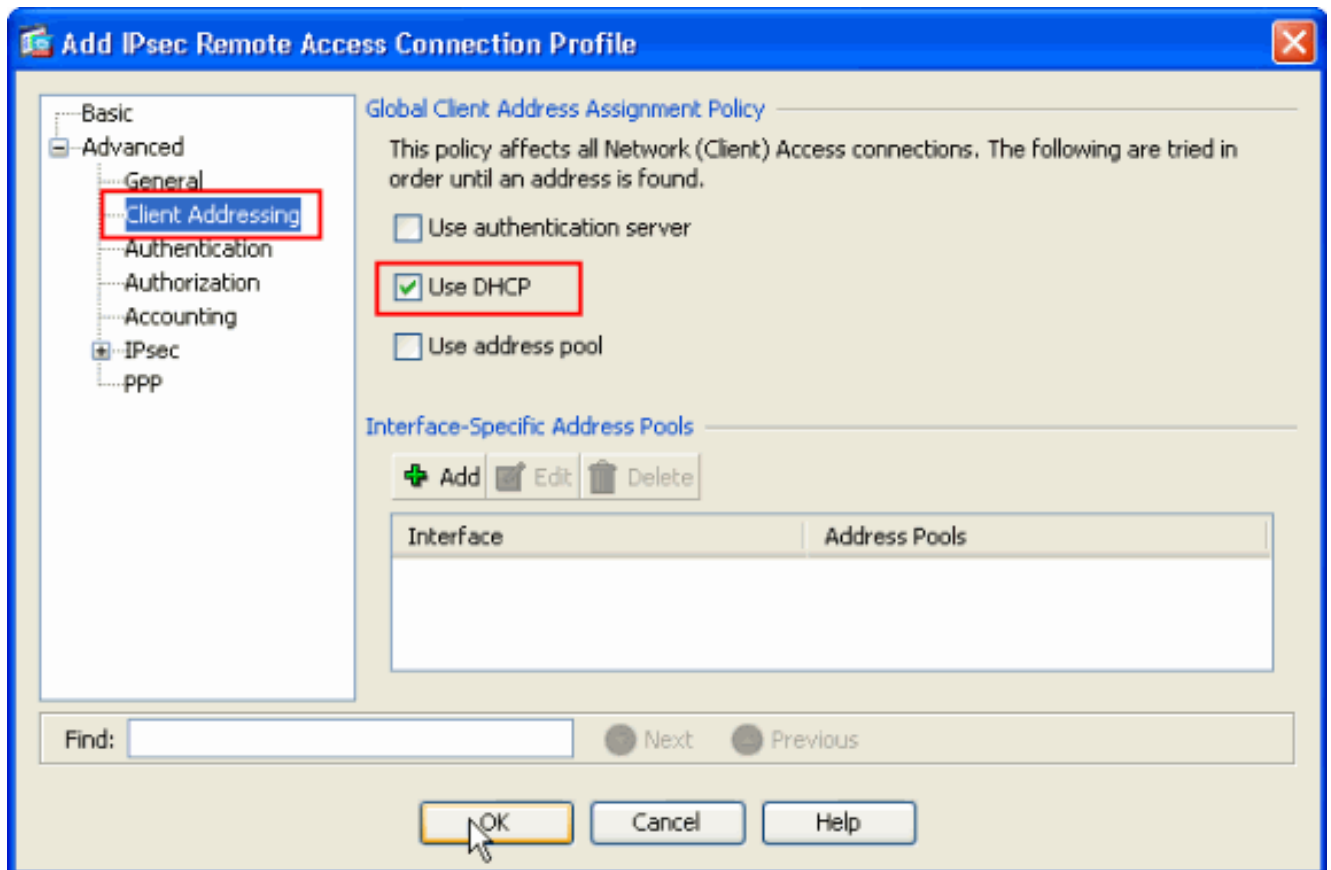
Find: Next Previous

OK Cancel Help

Klik op OK.

8. Kies **Geavanceerd > Clientadressering >** en controleer het selectiekader met **DHCP** voor de DHCP-server om IP-adres aan de VPN-clients toe te wijzen. **Opmerking:** Schakel de vinkjes uit voor **gebruik van de authenticatieserver** en **gebruik de adrestoewijzing**.

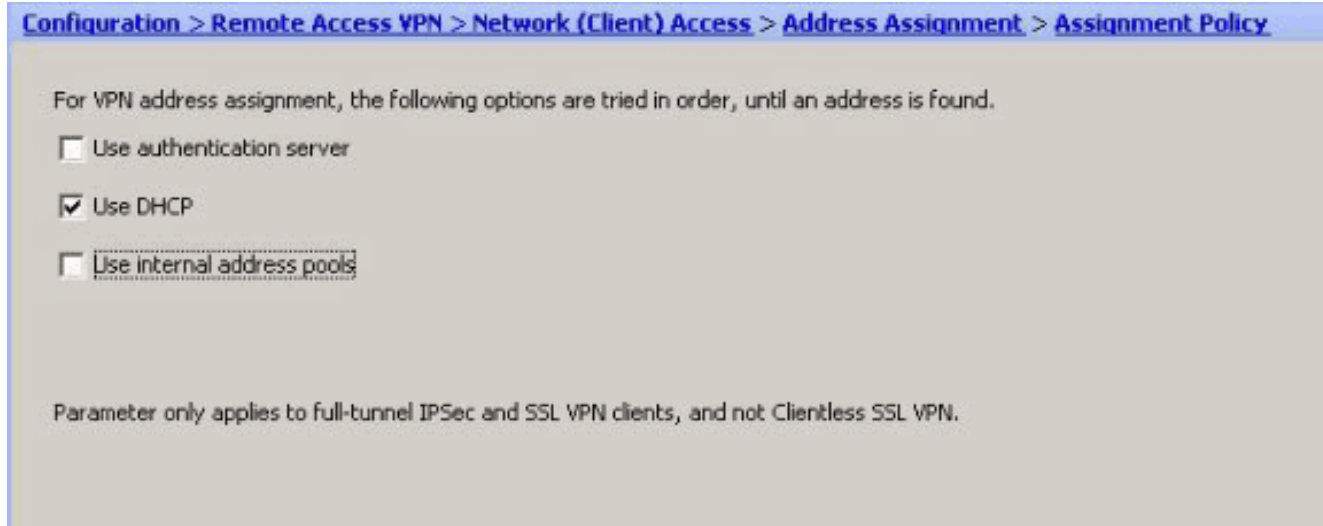




### Configuratie voor ASDM 6.x

De zelfde ASDM configuratie werkt prima met de ASDM versie 6.x, behalve voor sommige kleinere aanpassingen in termen van de ASDM paden. De ASDM-paden naar bepaalde velden hadden een afwijking van ASDM versie 6.2 en hoger. De aanpassingen samen met de bestaande paden worden hieronder weergegeven. Hier worden de grafische beelden niet toegevoegd in de gevallen waarin zij voor alle belangrijke ASDM-versies hetzelfde blijven.

1. Configuration > Remote Access VPN > Network (Client) Access > Advanced > IPsec > IKE-beleid > Add
2. Configuratie > Remote Access VPN > Toegang voor netwerk (client) > Geavanceerd > IPsec > IPsec Transformatiesets > Add
3. Configuration > Remote Access VPN > Network (Client) Access > Advanced > IPsec > Crypto Maps > Add
4. Kies Configuration > Remote Access VPN > Network (Client) Access > Group Policy > Add > Intern Group Policy
5. Kies Configuration > Remote Access VPN > Network (Client) Access > Group Policy > Add > Intern Group Policy > Server
6. Kies Configuration > Remote Access VPN > AAA-instellingen/lokale gebruikers > Local Gebruikers > Add
7. Configuratie > Remote Access VPN > Toegang tot netwerk (client) > IPsec Connection-profielen > Add
8. Kies Configuration > Remote Access VPN > Network (Client) Access > Address Asmission Policy



Al deze drie opties zijn standaard ingeschakeld. Cisco ASA volgt de zelfde volgorde om adressen aan de VPN cliënten toe te wijzen. Wanneer u de andere twee opties niet controleert, verifieert Cisco ASA de server en de lokale pool opties niet. De standaard enabled opties kunnen worden geverifieerd door de **show run all | in vpn-add** opdracht. Dit is een voorbeelduitvoer voor uw referentie:

```
vpn-addr-assign aaa
vpn-addr-assign dhcp
vpn-addr-assign local reuse-delay 0
```

Raadpleeg voor meer informatie over deze opdracht [vpn-addr-toewijzen](#).

## [ASA/PIX configureren met CLI](#)

Voltooi deze stappen om de DHCP-server te configureren om IP-adres aan de VPN-clients te geven vanuit de opdrachtregel. Raadpleeg [Beelden voor externe toegang VPN's](#) of [Cisco ASA 5500 Series adaptieve security applicaties-commando-referenties](#) voor meer informatie over elke opdracht die wordt gebruikt.

### Config op het ASA-apparaat uitvoeren

```
ASA# sh run
ASA Version 8.0(2)
!
!--- Specify the hostname for the Security Appliance.
hostname ASA enable password 8Ry2YjIyt7RRXU24 encrypted
names ! !--- Configure the outside and inside
interfaces. interface Ethernet0/0 nameif inside
security-level 100 ip address 10.1.1.1 255.255.255.0 !
interface Ethernet0/1 nameif outside security-level 0 ip
address 192.168.1.1 255.255.255.0 ! interface
Ethernet0/2 nameif DMZ security-level 50 ip address
192.168.10.2 255.255.255.0 !--- Output is suppressed.
passwd 2KFQnbNIdI.2KYOU encrypted boot system
disk0:/asa802-k8.bin ftp mode passive access-list 101
extended permit ip 10.1.1.0 255.255.255.0 192.168.5.0
255.255.255.0 pager lines 24 logging enable logging asdm
informational mtu inside 1500 mtu outside 1500 mtu dmz
1500 no failover icmp unreachable rate-limit 1 burst-
size 1 !--- Specify the location of the ASDM image for
ASA to fetch the image for ASDM access. asdm image
disk0:/asdm-613.bin no asdm history enable arp timeout
14400 global (outside) 1 192.168.1.5 nat (inside) 0
```

```
access-list 101 nat (inside) 1 0.0.0.0 0.0.0.0 route
outside 0.0.0.0 0.0.0.0 192.168.1.2 1 timeout xlate
3:00:00 timeout conn 1:00:00 half-closed 0:10:00 udp
0:02:00 icmp 0:00:02 timeout sunrpc 0:10:00 h323 0:05:00
h225 1:00:00 mgcp 0:05:00 mgcp-pat 0:05:00 timeout sip
0:30:00 sip_media 0:02:00 sip-invite 0:03:00 sip-
disconnect 0:02:00 timeout uauth 0:05:00 absolute
dynamic-access-policy-record DfltAccessPolicy http
server enable http 0.0.0.0 0.0.0.0 inside no snmp-server
location no snmp-server contact snmp-server enable traps
snmp authentication linkup linkdown coldstart crypto
ipsec transform-set ESP-DES-SHA esp-des esp-sha-hmac
crypto dynamic-map outside_dyn_map 1 set transform-set
ESP-DES-SHA crypto map outside_map 1 ipsec-isakmp
dynamic outside_dyn_map !--- Specifies the interface to
be used with !--- the settings defined in this
configuration. crypto map outside_map interface outside
!--- PHASE 1 CONFIGURATION ---! !--- This configuration
uses ISAKMP policy 2. !--- The configuration commands
here define the Phase !--- 1 policy parameters that are
used. crypto isakmp enable outside crypto isakmp policy
2 authentication pre-share encryption des hash sha group
2 lifetime 86400 no crypto isakmp nat-traversal !---
Specifies that the IP address to the vpn clients are
assigned by the DHCP Server and now by AAA or the Local
pool.The CLI vpn-addr-assign dhcp for VPN address
assignment through DHCP Server is hidden in the CLI
provided by show run command.
```

```
no vpn-addr-assign aaa
no vpn-addr-assign local
```

```
telnet timeout 5
ssh timeout 5
console timeout 0
threat-detection basic-threat
threat-detection statistics access-list
!
class-map inspection_default
  match default-inspection-traffic
!
!
policy-map type inspect dns preset_dns_map
  parameters
    message-length maximum 512
policy-map global_policy
  class inspection_default
    inspect dns preset_dns_map
    inspect ftp
    inspect h323 h225
    inspect h323 ras
    inspect netbios
    inspect rsh
    inspect rtsp
    inspect skinny
    inspect esmtp
    inspect sqlnet
    inspect sunrpc
    inspect tftp
    inspect sip
    inspect xdmcp
!
service-policy global_policy global
!
```

```

group-policy GroupPolicy1 internal
group-policy GroupPolicy1 attributes

!--- define the DHCP network scope in the group
policy.This configuration is Optional dhcp-network-scope
192.168.5.0

!--- In order to identify remote access users to the
Security Appliance, !--- you can also configure
usernames and passwords on the device. username cisco123
password ffIRPGpDSOJh9YLq encrypted

!--- Create a new tunnel group and set the connection !-
-- type to remote-access. tunnel-group TunnelGroup1 type
remote-access !--- Define the DHCP server address to the
tunnel group. tunnel-group TunnelGroup1 general-
attributes default-group-policy GroupPolicy1 dhcp-server
192.168.10.1

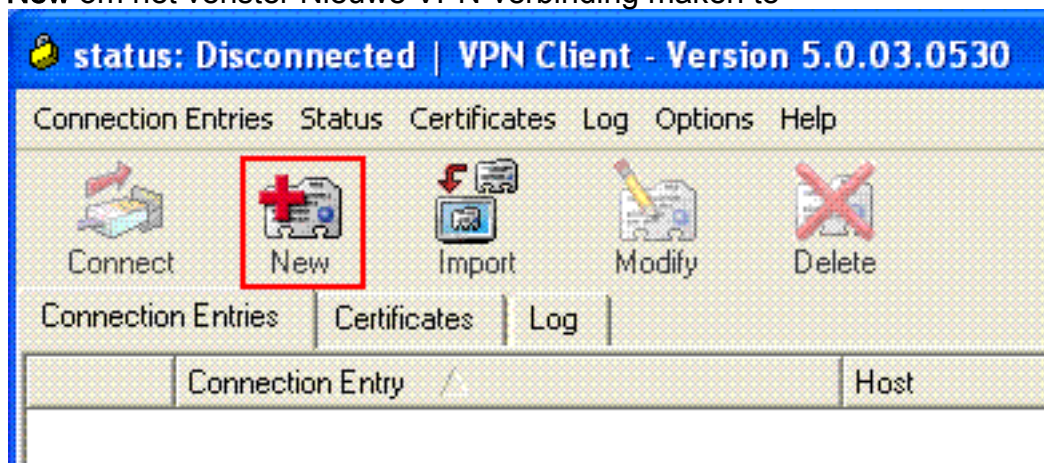
!--- Enter the pre-shared-key to configure the
authentication method. tunnel-group TunnelGroup1 ipsec-
attributes pre-shared-key * prompt hostname context
Cryptochecksum:e0725ca9ccc28af488ded9ee36b7822d : end
ASA#

```

## Cisco VPN-clientconfiguratie

Probeer met de Cisco ASA te verbinden aan het gebruik van de Cisco VPN-client om te controleren of de ASA met succes is geconfigureerd.

1. Selecteer **Start > Programma's > Cisco Systems VPN-client > VPN-client**.
2. Klik op **New** om het venster Nieuwe VPN-verbinding maken te



starten.

3. Vul de gegevens in van uw nieuwe aansluiting. Voer de naam van de verbindingsoort in samen met een beschrijving. Voer het **externe IP-adres van de ASA** in het hostvak in. Voer vervolgens de naam van de VPN-tunnelgroep (TunnelGroup1) en het wachtwoord in (Voorgedeelde sleutel - cisco123) zoals in ASA ingesteld. Klik op



VPN Client | Create New VPN Connection Entry

Connection Entry: ASA

Description: vpntunnel

Host: 192.168.1.1

Authentication | Transport | Backup Servers | Dial-Up

Group Authentication  Mutual Group Authentication

Name: TunnelGroup1

Password: \*\*\*\*\*

Confirm Password: \*\*\*\*\*

Certificate Authentication

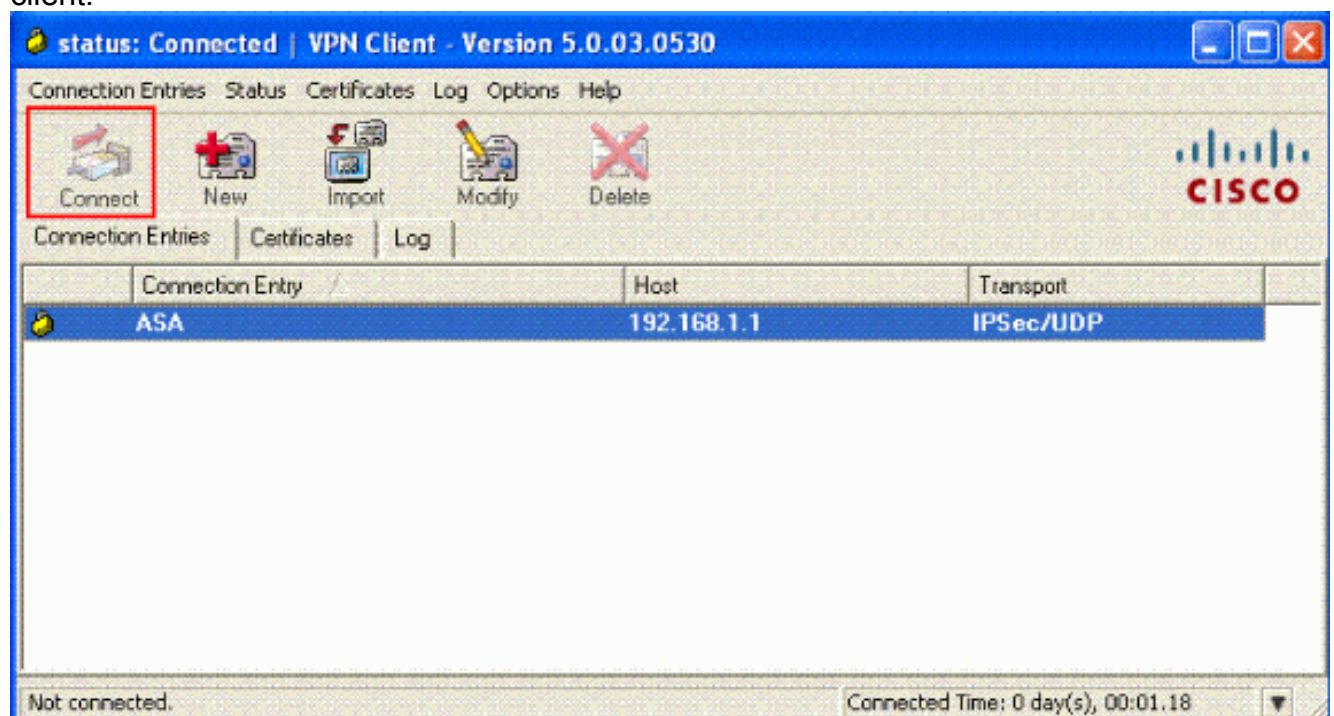
Name: [Dropdown]

Send CA Certificate Chain

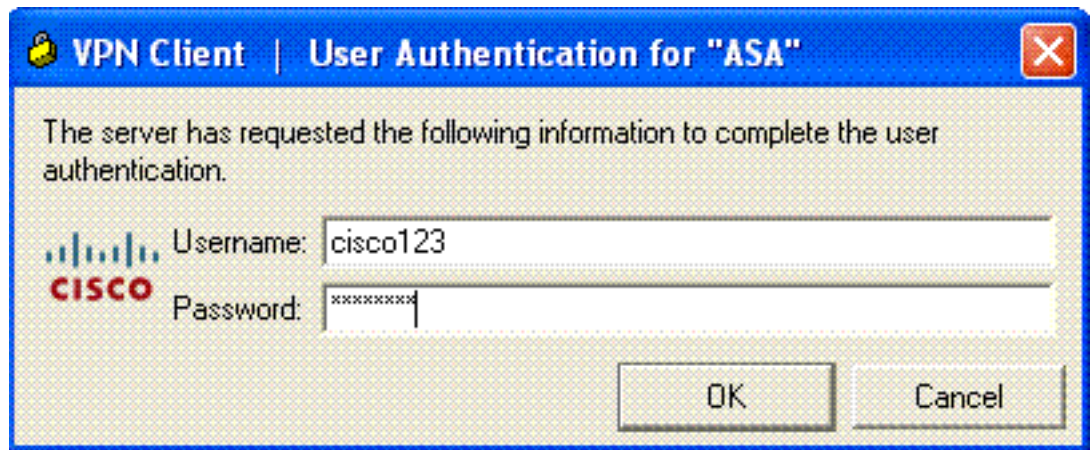
Erase User Password | Save | Cancel

Opslaan..

4. Klik op de verbinding die u wilt gebruiken en klik op **Connect** vanuit het hoofdvenster van VPN-client.

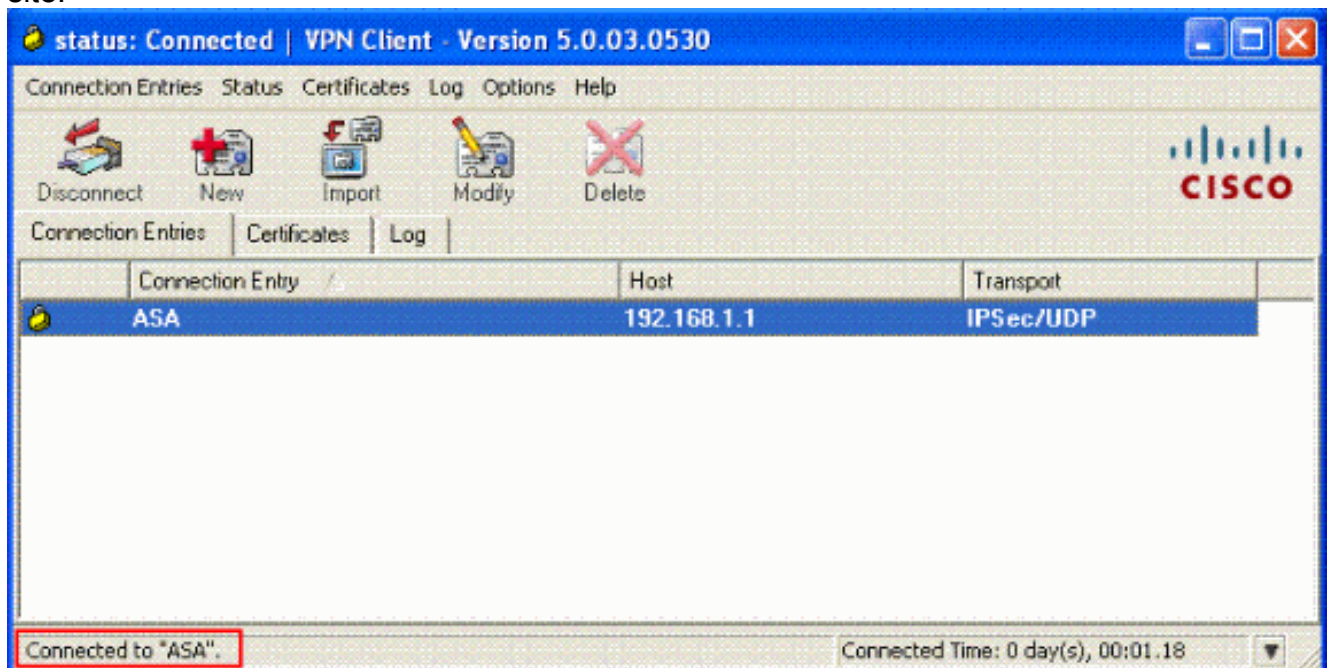


5. Voer desgevraagd de **gebruikersnaam** in : Cisco123 en **Wachtwoord**: cisco123 zoals in de ASA hierboven voor meer informatie ingesteld en klik op **OK** om verbinding te maken met het

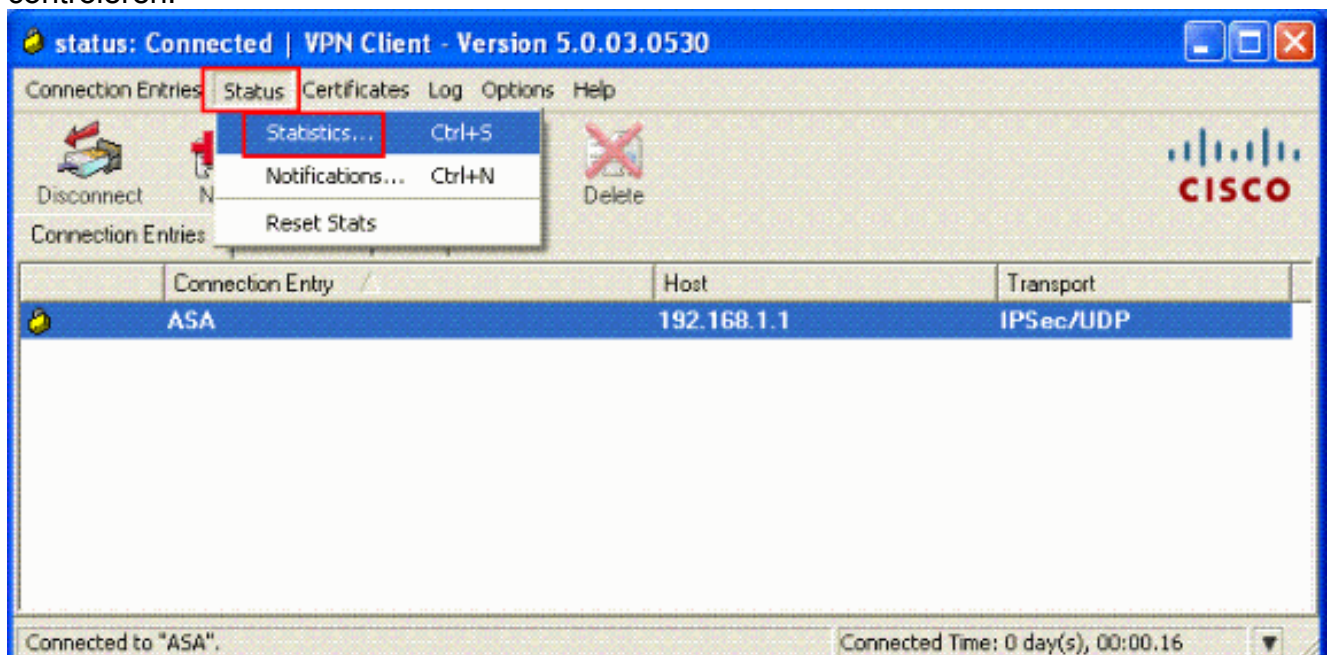


externe netwerk.

6. De VPN-client is verbonden met de ASA op de centrale site.



7. Zodra de verbinding met succes is tot stand gebracht, selecteert u **Statistieken** in het menu Status om de details van de tunnel te controleren.



# Verifiëren

## Opdrachten tonen

Gebruik dit gedeelte om te bevestigen dat de configuratie correct werkt.

Het [Uitvoer Tolk](#) ([uitsluitend geregistreeerde](#) klanten) (OIT) ondersteunt bepaalde **show** opdrachten. Gebruik de OIT om een analyse van **tonen** opdrachtoutput te bekijken.

- **toon crypto isakmp sa**-toont alle huidige IKE Security Associations (SAs) bij een peer.
- **toon crypto ipsec sa**-Toont de instellingen die worden gebruikt door huidige SA's.

```
ASA #show crypto ipsec sa
interface: outside
  Crypto map tag: dynmap, seq num: 10, local addr: 192.168.1.1

  local ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
  remote ident (addr/mask/prot/port): (192.168.5.1/255.255.255.255/0/0)
  current_peer: 192.168.1.2, username: cisco123
  dynamic allocated peer ip: 192.168.5.1

  #pkts encaps: 55, #pkts encrypt: 55, #pkts digest: 55
  #pkts decaps: 55, #pkts decrypt: 55, #pkts verify: 55
  #pkts compressed: 0, #pkts decompressed: 0
  #pkts not compressed: 0, #pkts comp failed: 0, #pkts decomp failed: 0
  #pre-frag successes: 0, #pre-frag failures: 0, #fragments created: 0
  #PMTUs sent: 0, #PMTUs rcvd: 0, #decapsulated frgs needing reassembly: 0
  #send errors: 0, #recv errors: 0

  local crypto endpt.: 192.168.1.1, remote crypto endpt.: 192.168.1.2

  path mtu 1500, ipsec overhead 58, media mtu 1500
  current outbound spi: C2C25E2B

inbound esp sas:
  spi: 0x69F8C639 (1777911353)
    transform: esp-des esp-md5-hmac none
    in use settings ={RA, Tunnel, }
    slot: 0, conn_id: 40960, crypto-map: dynmap
    sa timing: remaining key lifetime (sec): 28337
    IV size: 8 bytes
    replay detection support: Y
outbound esp sas:
  spi: 0xC2C25E2B (3267517995)
    transform: esp-des esp-md5-hmac none
    in use settings ={RA, Tunnel, }
    slot: 0, conn_id: 40960, crypto-map: dynmap
    sa timing: remaining key lifetime (sec): 28337
    IV size: 8 bytes
    replay detection support: Y

ASA #show crypto isakmp sa

Active SA: 1
  Rekey SA: 0 (A tunnel will report 1 Active and 1 Rekey SA during rekey)
Total IKE SA: 1

1  IKE Peer: 192.168.1.2
```



Type : user                      Role : responder  
Rekey : no                        State : AM\_ACTIVE

## Problemen oplossen

Deze sectie bevat informatie waarmee u problemen met de configuratie kunt oplossen. Ook wordt een voorbeelduitvoer van debug-uitvoer weergegeven.

**Opmerking:** Voor meer informatie over het oplossen van problemen [bij externe toegang IPsec](#), zie [de meest gebruikelijke L2L- en Remote Access IPsec VPN-probleemoplossing](#)

## Beveiligingsassociaties wissen

Wanneer u een probleem oplossen, zorg er dan voor dat de bestaande beveiligingsassociaties worden gewist nadat u een wijziging hebt aangebracht. In de bevoorrechte modus van de PIX, gebruik deze opdrachten:

- **Schakel [crypto] ipsec sa**—Verwijdert de actieve IPsec SAs. Het sleutelwoord crypto is optioneel.
- **Schakel [crypto] isakmp sa**—Verwijdert de actieve IKE SA's. Het sleutelwoord crypto is optioneel.

## Opdrachten voor probleemoplossing

Het [Uitvoer Tolk](#) ([uitsluitend geregistreeerde](#) klanten) (OIT) ondersteunt bepaalde **show** opdrachten. Gebruik de OIT om een analyse van **tonen** opdrachtoutput te bekijken.

**Opmerking:** Raadpleeg [Belangrijke informatie over debug Commands](#) voordat u **debug**-opdrachten gebruikt.

- **debug crypto ipsec 7**—display de IPsec onderhandelingen van fase 2.
- **debug crypto isakmp 7** — Hiermee geeft u de ISAKMP-onderhandelingen van fase 1 weer.

## Monster debug-uitvoer

- [ASA 8.0](#)
- [VPN-client 5.0 voor Windows](#)

## ASA 8.0

```
ASA#debug crypto isakmp 7
Jan 22 22:21:24 [IKEv1]: IP = 192.168.1.2, IKE_DECODE RECEIVED Message
(msgid=0) with payloads : HDR + SA (1) + KE (4) + NONCE (10) + ID (5) + VENDOR
(13) + VENDOR (13) + VENDOR (13) + VENDOR (13) + VENDOR (13) + NONE (0) total le
ngth : 856
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing SA payload
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing ke payload
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing ISA_KE payload
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing nonce payload
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing ID payload
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing VID payload
```



Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, Received xauth V6 VID  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, Received DPD VID  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, Received Fragmentation VID  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, IKE Peer included IKE fragmenta  
tion capability flags: Main Mode: True Aggressive Mode: False  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, Received NAT-Traversal ver 02 V  
ID  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, processing VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: IP = 192.168.1.2, Received Cisco Unity client VID  
Jan 22 22:21:24 [IKEv1]: IP = 192.168.1.2, Connection landed on tunnel\_group Tun  
nelGroup1  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, processin  
g IKE SA payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, IKE SA Pr  
oposal # 1, Transform # 13 acceptable Matches global IKE entry # 2  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing ISAKMP SA payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing ke payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing nonce payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, Generatin  
g keys for Responder...  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing ID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing hash payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, Computing  
hash for ISAKMP  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing Cisco Unity VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing xauth V6 VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing dpd vid payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing Fragmentation VID + extended capabilities payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, construct  
ing VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, Send Alti  
ga/Cisco VPN3000/Cisco ASA GW VID  
Jan 22 22:21:24 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE SENDING Message (msgid=0)  
with payloads : HDR + SA (1) + KE (4) + NONCE (10) + ID (5) + HASH (8) + VENDOR  
(13) + VENDOR (13) + VENDOR (13) + VENDOR (13) + VENDOR (13) + NONE (0) total le  
ngth : 368  
Jan 22 22:21:24 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE RECEIVED Message (msgid=0)  
with payloads : HDR + HASH (8) + NOTIFY (11) + VENDOR (13) + VENDOR (13) + NONE  
(0) total length : 116  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, processin  
g hash payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, Computing  
hash for ISAKMP  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, processin  
g notify payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, processin  
g VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, Processin  
g IOS/PIX Vendor ID payload (version: 1.0.0, capabilities: 00000408)  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, processin  
g VID payload  
Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, Received

Cisco Unity client VID

Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, constructing blank hash payload

Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, constructing qm hash payload

Jan 22 22:21:24 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE SENDING Message (msgid=e8a1816d) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0) total length : 68

Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE RECEIVED Message (msgid=e8a1816d) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0) total length : 84

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, process\_attr(): Enter!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, Processing MODE\_CFG Reply attributes.

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IKEGetUserAttributes: primary DNS = cleared

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IKEGetUserAttributes: secondary DNS = cleared

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IKEGetUserAttributes: primary WINS = cleared

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IKEGetUserAttributes: secondary WINS = cleared

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IKEGetUserAttributes: IP Compression = disabled

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IKEGetUserAttributes: Split Tunneling Policy = Disabled

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IKEGetUserAttributes: Browser Proxy Setting = no-modify

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IKEGetUserAttributes: Browser Proxy Bypass Local = disable

Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, User (cisco123) authenticated.

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, constructing blank hash payload

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, constructing qm hash payload

Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE SENDING Message (msgid=14360de6) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0) total length : 60

Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE RECEIVED Message (msgid=14360de6) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0) total length : 56

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, process\_attr(): Enter!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Processing cfg ACK attributes

Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE RECEIVED Message (msgid=2663a1dd) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0) total length : 193

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, process\_attr(): Enter!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Processing cfg Request attributes

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE\_CFG: Received request for IPV4 address!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE\_CFG: Received request for IPV4 net mask!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE\_CFG: Received request for DNS server address!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE\_CFG: Received request for WINS server address!

Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Received unsupported transaction mode attribute: 5

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE\_CFG: Received request for Banner!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE\_CFG: Received request for Save PW setting!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1

92.168.1.2, MODE\_CFG: Received request for Default Domain Name!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for Split Tunnel List!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for Split DNS!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for PFS setting!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for Client Browser Proxy Setting!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for backup ip-sec peer list!  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, Received unknown transaction mode attribute: 28684  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for Application Version!  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, Client Type: WinNT Client Application Version: 5.0.03.0530  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for FWTYPE!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for DHCP hostname for DDNS is: Wireless12  
3!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, MODE\_CFG: Received request for UDP Port!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Obtained IP addr (192.168.5.1) prior to initiating Mode Cfg (XAuth e  
nabled)  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, Assigned private IP address 192.168.5.1 to remote user  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing blank hash payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Send Client Browser Proxy Attributes!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Browser Proxy set to No-Modify. Browser Proxy data will NOT be inclu  
ded in the mode-cfg reply  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing qm hash payload  
Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE SENDING Message (msgid=266  
3a1dd) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0) total length : 158  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Delay Quick Mode processing, Cert/Trans Exch/RM DSID in progress  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Resume Quick Mode processing, Cert/Trans Exch/RM DSID completed  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, **PHASE 1 COMPLETED**  
Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, Keep-alive type for this connection:  
DPD  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Starting P1 rekey timer: 950 seconds.  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, sending notify message  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing blank hash payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing qm hash payload  
Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE SENDING Message (msgid=f44  
35669) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE (0) total length : 84  
Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE RECEIVED Message (msgid=54  
1f8e43) with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) +  
NONE (0) total length : 1022  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, processing hash payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1

92.168.1.2, processing SA payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, processing nonce payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, processing ID payload  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, Received remote Proxy Host data in ID Payload: Address 192.168.5.1, Proto  
col 0, Port 0  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, processing ID payload  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, Received local IP Proxy Subnet data in ID Payload: Address 0.0.0.0, Mask  
0.0.0.0, Protocol 0, Port 0  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, QM IsRekeyed old sa not found by addr  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, IKE Remote Peer configured for crypto map: dynmap  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, processing IPsec SA payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, IPsec SA Proposal # 14, Transform # 1 acceptable Matches global IPS  
ec SA entry # 10  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, IKE: requesting SPI!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, IKE got SPI from key engine: SPI = 0x31de01d8  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, oakley constructing quick mode  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing blank hash payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing IPsec SA payload  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, Overriding Initiator's IPsec rekeying duration from 2147483 to 28800 secon  
ds  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing IPsec nonce payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing proxy ID  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Transmitting Proxy Id:  
Remote host: 192.168.5.1 Protocol 0 Port 0  
Local subnet: 0.0.0.0 mask 0.0.0.0 Protocol 0 Port 0  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Sending RESPONDER LIFETIME notification to Initiator  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, constructing qm hash payload  
Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE SENDING Message (msgid=541  
f8e43) with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) +  
NOTIFY (11) + NONE (0) total length : 176  
Jan 22 22:21:31 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE RECEIVED Message (msgid=54  
1f8e43) with payloads : HDR + HASH (8) + NONE (0) total length : 48  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, processing hash payload  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, loading all IPSEC SAs  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Generating Quick Mode Key!  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Generating Quick Mode Key!  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, Security negotiation complete for User (cisco123) Responder, Inbound SPI  
= 0x31de01d8, Outbound SPI = 0x8b7597a9  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1

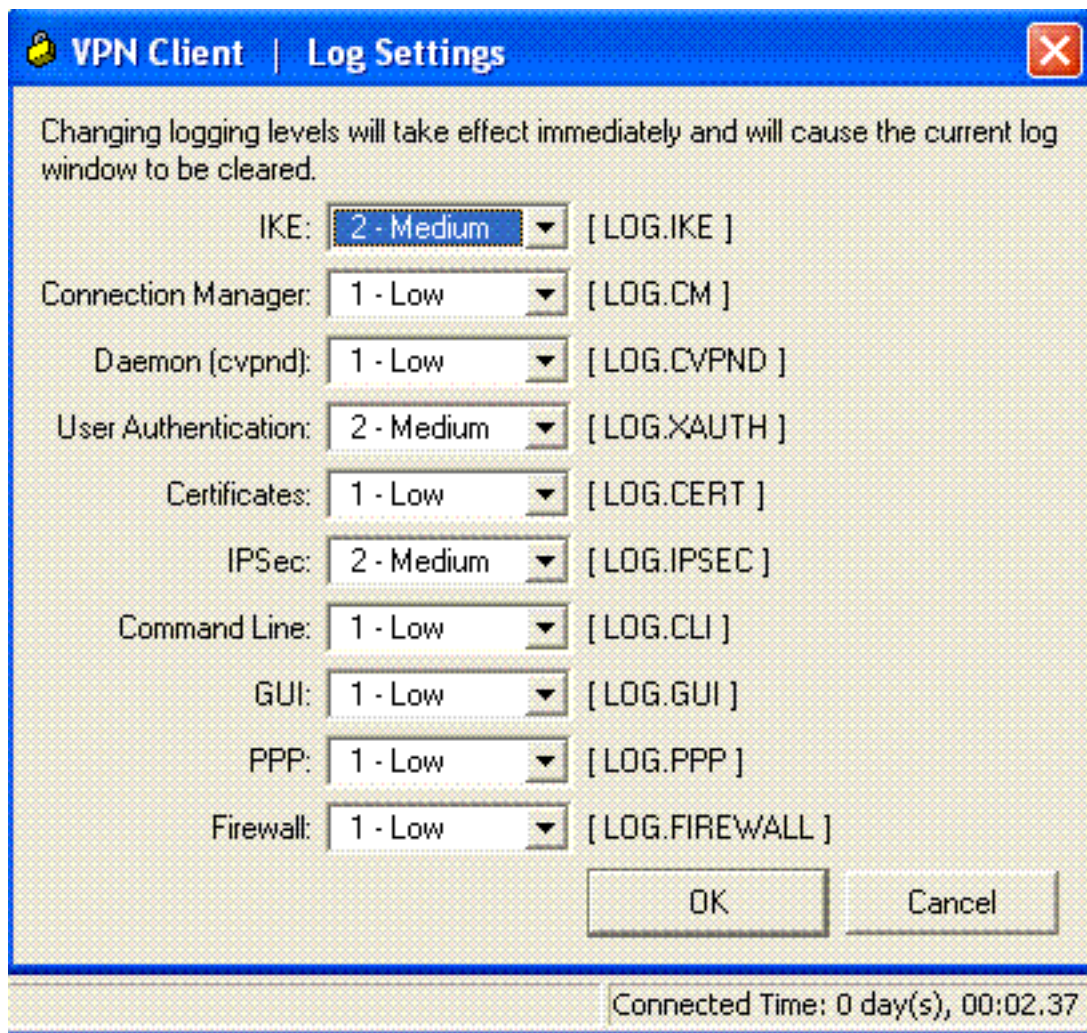
92.168.1.2, IKE got a KEY\_ADD msg for SA: SPI = 0x8b7597a9  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Pitcher: received KEY\_UPDATE, spi 0x31de01d8  
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 1  
92.168.1.2, Starting P2 rekey timer: 27360 seconds.  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, Adding static route for client address: 192.168.5.1  
Jan 22 22:21:31 [IKEv1]: Group = TunnelGroup1, Username = cisco123, IP = 192.168  
.1.2, **PHASE 2 COMPLETED** (msgid=541f8e43)  
Jan 22 22:21:41 [IKEv1]: IP = 192.168.1.2, IKE\_DECODE RECEIVED Message (msgid=78  
f7d3ae) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE (0) total length : 8  
0

ASA#**debug crypto ipsec 7**

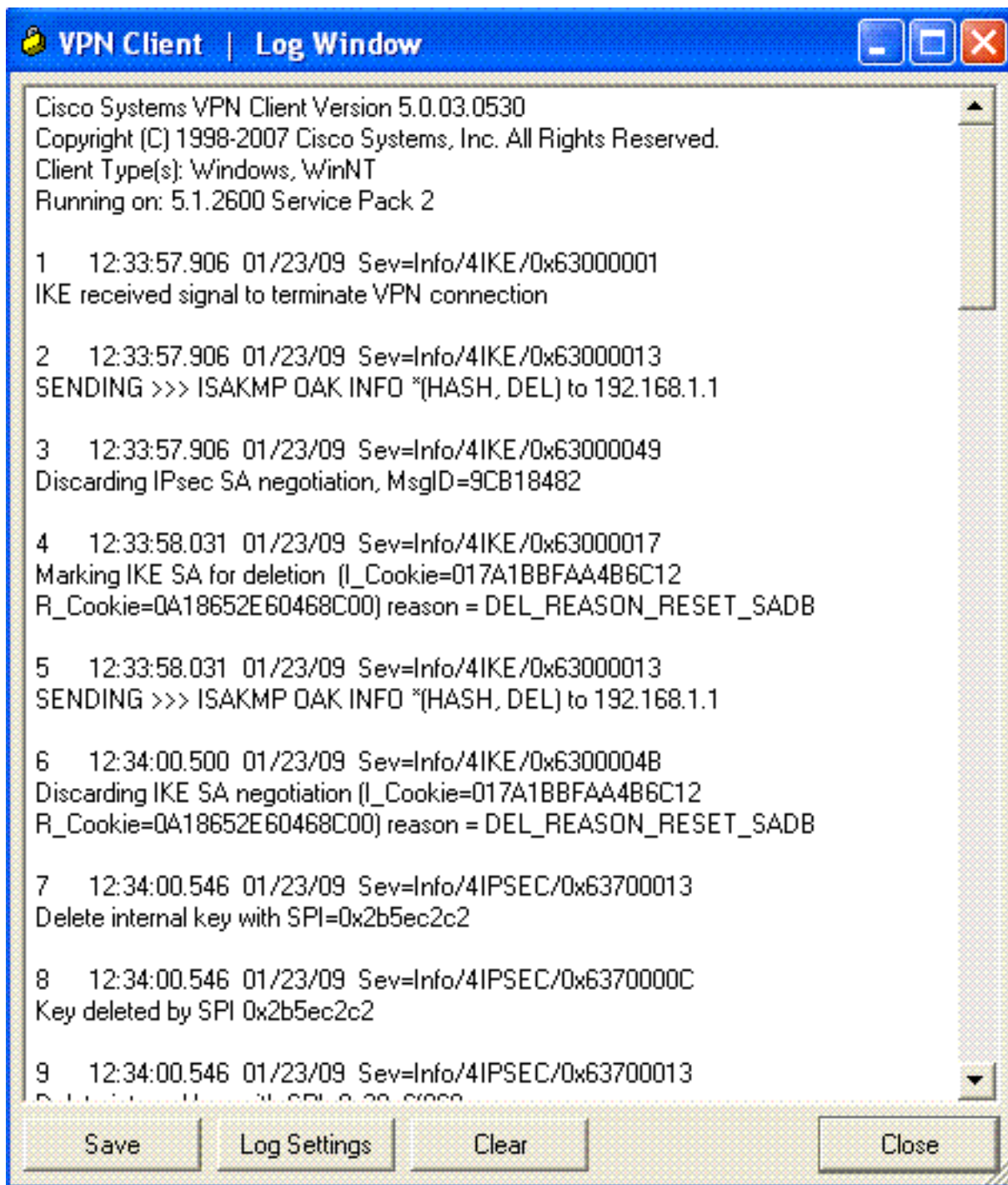
*!--- Deletes the old SAs.* ASA# IPSEC: Deleted inbound decrypt rule, SPI 0x7F3C985A Rule ID:  
0xD5567DB0 IPSEC: Deleted inbound permit rule, SPI 0x7F3C985A Rule ID: 0xD4EF1DF0 IPSEC: Deleted  
inbound tunnel flow rule, SPI 0x7F3C985A Rule ID: 0xD556AF60 IPSEC: Deleted inbound VPN context,  
SPI 0x7F3C985A VPN handle: 0x0004678C IPSEC: Deleted outbound encrypt rule, SPI 0xC921E280 Rule  
ID: 0xD517EE30 IPSEC: Deleted outbound permit rule, SPI 0xC921E280 Rule ID: 0xD5123250 IPSEC:  
Deleted outbound VPN context, SPI 0xC921E280 VPN handle: 0x00040AB4 *!--- Creates new SAs.* ASA#  
IPSEC: New embryonic SA created @ 0xD4EF2390, SCB: 0xD4EF22C0, Direction: inbound SPI :  
0x7F3C985A Session ID: 0x0000F000 VPIF num : 0x00000002 Tunnel type: ra Protocol : esp Lifetime  
: 240 seconds IPSEC: New embryonic SA created @ 0xD556B118, SCB: 0xD556B048, Direction: outbound  
SPI : 0xC921E280 Session ID: 0x0000F000 VPIF num : 0x00000002 Tunnel type: ra Protocol : esp  
Lifetime : 240 seconds IPSEC: Completed host OBSA update, SPI 0xC921E280 IPSEC: Creating  
outbound VPN context, SPI 0xC921E280 Flags: 0x00000005 SA : 0xD556B118 SPI : 0xC921E280 MTU :  
1500 bytes VCID : 0x00000000 Peer : 0x00000000 SCB : 0x0133B741 Channel: 0xD4160FA8 IPSEC:  
Completed outbound VPN context, SPI 0xC921E280 VPN handle: 0x00040AB4 IPSEC: New outbound  
encrypt rule, SPI 0xC921E280 Src addr: 0.0.0.0 Src mask: 0.0.0.0 Dst addr: 192.168.5.1 Dst mask:  
255.255.255.255 Src ports Upper: 0 Lower: 0 Op : ignore Dst ports Upper: 0 Lower: 0 Op : ignore  
Protocol: 0 Use protocol: false SPI: 0x00000000 Use SPI: false IPSEC: Completed outbound encrypt  
rule, SPI 0xC921E280 Rule ID: 0xD517EE30 IPSEC: New outbound permit rule, SPI 0xC921E280 Src  
addr: 192.168.1.1 Src mask: 255.255.255.255 Dst addr: 192.168.1.2 Dst mask: 255.255.255.255 Src  
ports Upper: 0 Lower: 0 Op : ignore Dst ports Upper: 0 Lower: 0 Op : ignore Protocol: 50 Use  
protocol: true SPI: 0xC921E280 Use SPI: true IPSEC: Completed outbound permit rule, SPI  
0xC921E280 Rule ID: 0xD5123250 IPSEC: Completed host IBSA update, SPI 0x7F3C985A IPSEC: Creating  
inbound VPN context, SPI 0x7F3C985A Flags: 0x00000006 SA : 0xD4EF2390 SPI : 0x7F3C985A MTU : 0  
bytes VCID : 0x00000000 Peer : 0x00040AB4 SCB : 0x0132B2C3 Channel: 0xD4160FA8 IPSEC: Completed  
inbound VPN context, SPI 0x7F3C985A VPN handle: 0x0004678C IPSEC: Updating outbound VPN context  
0x00040AB4, SPI 0xC921E280 Flags: 0x00000005 SA : 0xD556B118 SPI : 0xC921E280 MTU : 1500 bytes  
VCID : 0x00000000 Peer : 0x0004678C SCB : 0x0133B741 Channel: 0xD4160FA8 IPSEC: Completed  
outbound VPN context, SPI 0xC921E280 VPN handle: 0x00040AB4 IPSEC: Completed outbound inner  
rule, SPI 0xC921E280 Rule ID: 0xD517EE30 IPSEC: Completed outbound outer SPD rule, SPI  
0xC921E280 Rule ID: 0xD5123250 IPSEC: New inbound tunnel flow rule, SPI 0x7F3C985A Src addr:  
192.168.5.1 Src mask: 255.255.255.255 Dst addr: 0.0.0.0 Dst mask: 0.0.0.0 Src ports Upper: 0  
Lower: 0 Op : ignore Dst ports Upper: 0 Lower: 0 Op : ignore Protocol: 0 Use protocol: false  
SPI: 0x00000000 Use SPI: false IPSEC: Completed inbound tunnel flow rule, SPI 0x7F3C985A Rule  
ID: 0xD556AF60 IPSEC: New inbound decrypt rule, SPI 0x7F3C985A Src addr: 192.168.1.2 Src mask:  
255.255.255.255 Dst addr: 192.168.1.1 Dst mask: 255.255.255.255 Src ports Upper: 0 Lower: 0 Op :  
ignore Dst ports Upper: 0 Lower: 0 Op : ignore Protocol: 50 Use protocol: true SPI: 0x7F3C985A  
Use SPI: true IPSEC: Completed inbound decrypt rule, SPI 0x7F3C985A Rule ID: 0xD5567DB0 IPSEC:  
New inbound permit rule, SPI 0x7F3C985A Src addr: 192.168.1.2 Src mask: 255.255.255.255 Dst  
addr: 192.168.1.1 Dst mask: 255.255.255.255 Src ports Upper: 0 Lower: 0 Op : ignore Dst ports  
Upper: 0 Lower: 0 Op : ignore Protocol: 50 Use protocol: true SPI: 0x7F3C985A Use SPI: true  
IPSEC: Completed inbound permit rule, SPI 0x7F3C985A Rule ID: 0xD4EF1DF0

[VPN-client 5.0 voor Windows](#)

Selecteer Log > Instellingen loggen om de logniveaus in de VPN-client in te schakelen.



Selecteer **Log > venster in** om de logitems in de VPN-client te bekijken.



## [Gerelateerde informatie](#)

- [Cisco ASA 5500 Series ondersteuningspagina voor adaptieve security applicaties](#)
- [Cisco ASA 5500 Series Opdrachten voor adaptieve security applicaties](#)
- [Ondersteuning van Cisco PIX 500 Series security applicaties](#)
- [Cisco PIX 500 Series security applicaties, opdracht](#)
- [Cisco adaptieve security apparaatbeheer](#)
- [Ondersteuning van IPsec-onderhandeling/IKE-protocollen](#)