

ASA/PIX : 通过 ASDM 使用 DHCP 服务器实现 IPsec VPN 客户端寻址的配置示例

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[Introduction](#)

本文档介绍如何使用自适应安全设备管理器 (ASDM) 或 CLI 配置 Cisco 5500 系列自适应安全设备 (ASA) 以使 DHCP 服务器向所有 VPN 客户端提供客户端 IP 地址。ASDM 通过一个直观且易于使用的基于 Web 的管理界面提供一流的安全管理和监控。完成 Cisco ASA 配置后，可以使用 Cisco VPN 客户端对其进行验证。

要在 Cisco VPN 客户端 (适用于 Windows 的 4.x 版本) 和 PIX 500 系列安全设备 7.x 之间设置远程访问 VPN 连接，请参阅[使用 Windows 2003 IAS RADIUS \(针对 Active Directory\) 进行身份验证的 PIX/ASA 7.x 和 Cisco VPN 客户端 4.x 配置示例](#)。远程 VPN 客户端用户使用 Microsoft Windows 2003 Internet 身份验证服务 (IAS) RADIUS 服务器根据 Active Directory 进行身份验证。

要使用 Cisco 安全访问控制服务器 (ACS 版本 3.2) 进行扩展身份验证 (Xauth) 以在 Cisco VPN 客户端 (适用于 Windows 的 4.x 版本) 和 PIX 500 系列安全设备 7.x 之间设置远程访问 VPN 连接，请参阅[使用 Cisco 安全 ACS 身份验证的 PIX/ASA 7.x 和 Cisco VPN 客户端 4.x 配置示例](#)。

[Prerequisites](#)

[Requirements](#)

本文档假设 ASA 处于完全运行状态，并配置为允许 Cisco ASDM 或 CLI 进行配置更改。

Note: 请参阅 [允许对 ASDM 进行 HTTPS 访问](#) 或 [PIX/ASA 7.x：内部和外部接口上的 SSH 配置示例](#) 以允许通过 ASDM 或 Secure Shell (SSH) 远程对设备进行配置。

[Components Used](#)

本文档中的信息基于以下软件和硬件版本：

- Cisco 可适应的安全工具软件版本 7.x 和以上
- 可适应安全设备管理器版本 5.x 和以上
- Cisco VPN 客户端软件版本 4.x 和以后

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

[相关产品](#)

此配置可能也与 Cisco PIX 安全工具版本 7.x 和以上一起使用。

[Conventions](#)

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

[背景信息](#)

远程访问 VPN 满足了移动工作者的安全连接组织网络的需要。移动用户可以使用安装在其 PC 机上的 VPN 客户端软件来建立安全连接。VPN 客户端将会向已配置为接受这些请求的中心站点设备发起连接。在本示例中，中心站点设备为使用动态加密映射的 ASA 5500 系列自适应安全设备。

在安全设备地址管理方面，我们必须通过隧道配置用于将客户端与专用网络上的资源连接起来的 IP 地址，使客户端运行起来似乎是直接连接到专用网络上。而且，我们仅配置分配给客户端的专用 IP 地址。分配给您的专用网络上其他资源的 IP 地址属于您的网络管理职责的一部分，不在 VPN 管理的范围内。因此，我们在此处讨论的 IP 地址指的是在您的专用网络编址方案中可将客户端作为隧道终点运行的 IP 地址。

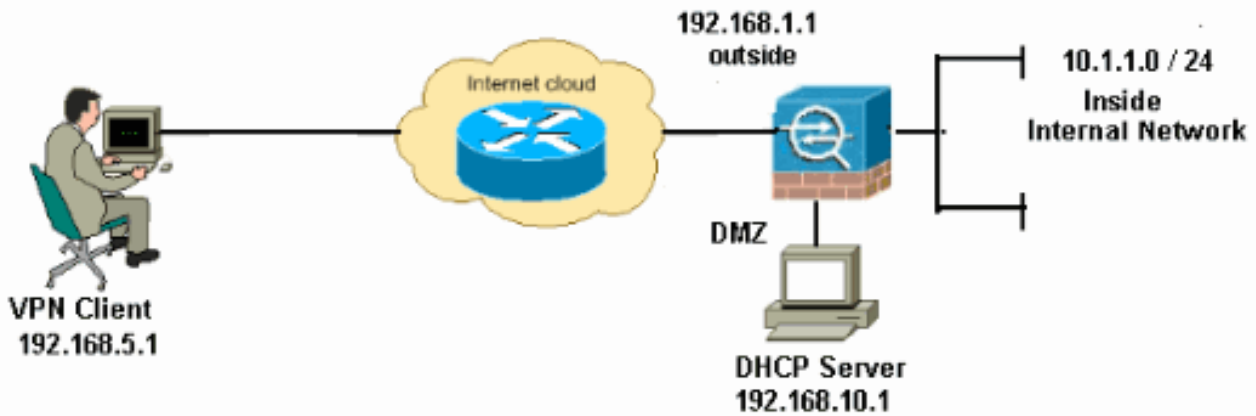
[Configure](#)

本部分提供有关如何配置本文档所述功能的信息。

Note: 使用 [命令查找工具](#) ([仅限注册用户](#)) 可获取有关本部分所使用命令的详细信息。

[Network Diagram](#)

本文档使用以下网络设置：



Note: 此配置中使用的 IP 编址方案在 Internet 上不可合法路由。这些地址是在实验室环境中使用的 RFC 1918 地址。

配置远程访问 VPN (IPSec)

ASDM程序

执行下列步骤以配置远程访问 VPN：

1. 选择 **Configuration > Remote Access VPN > Network (Client) Access > Advanced > IPSec > IKE Policies > Add** 以创建 ISAKMP 策略 2，如下所示。

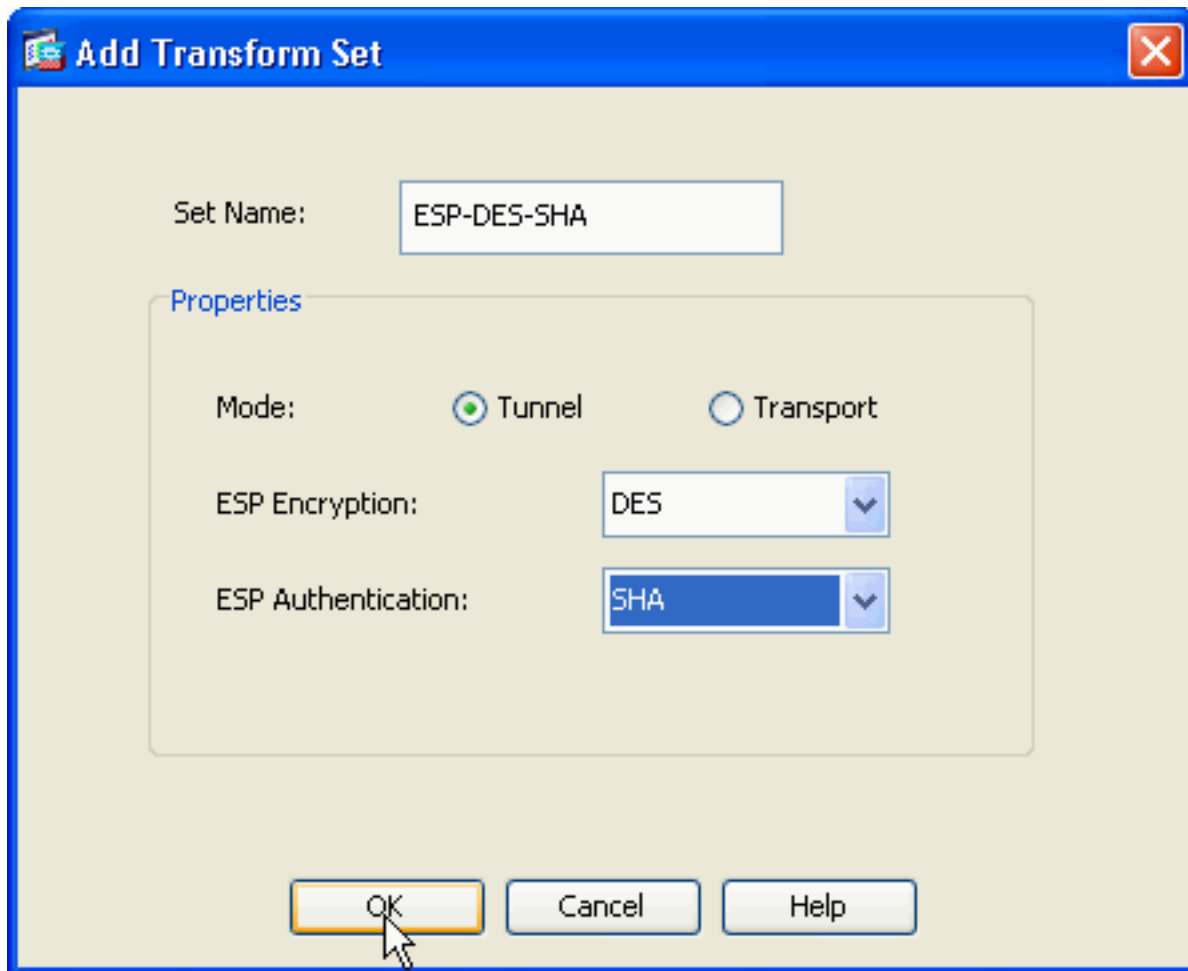
The screenshot shows the 'Add IKE Policy' dialog box in ASDM. The dialog has a blue title bar with the text 'Add IKE Policy' and a close button (X) in the top right corner. The main area contains several configuration fields:

- Priority:** A text input field containing the number '2'.
- Authentication:** A dropdown menu with 'pre-share' selected.
- Encryption:** A dropdown menu with 'des' selected.
- D-H Group:** A dropdown menu with '2' selected.
- Hash:** A dropdown menu with 'sha' selected.
- Lifetime:** A radio button for 'Unlimited' is unselected, and a radio button for '86400' is selected. To the right of the '86400' field is a dropdown menu with 'seconds' selected.

At the bottom of the dialog, there are three buttons: 'OK', 'Cancel', and 'Help'. A mouse cursor is pointing at the 'OK' button, which is highlighted with a yellow border.

单击 OK，然后单击 Apply。

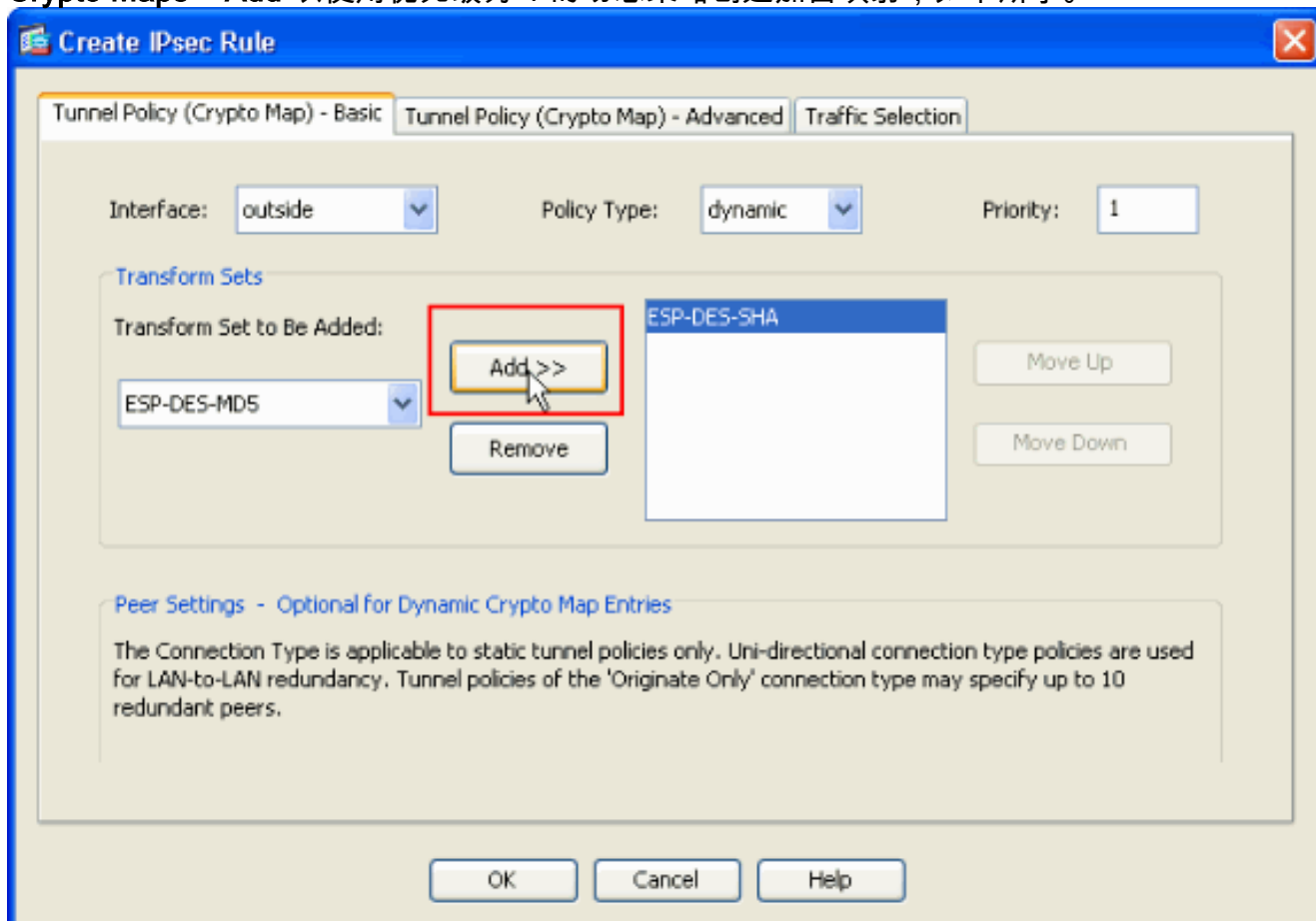
2. 选择 **Configuration > Remote Access VPN > Network (Client) Access > Advanced > IPSec > IPSec Transform Sets > Add** 以创建 ESP-DES-SHA 转换集，如下所示。



单击

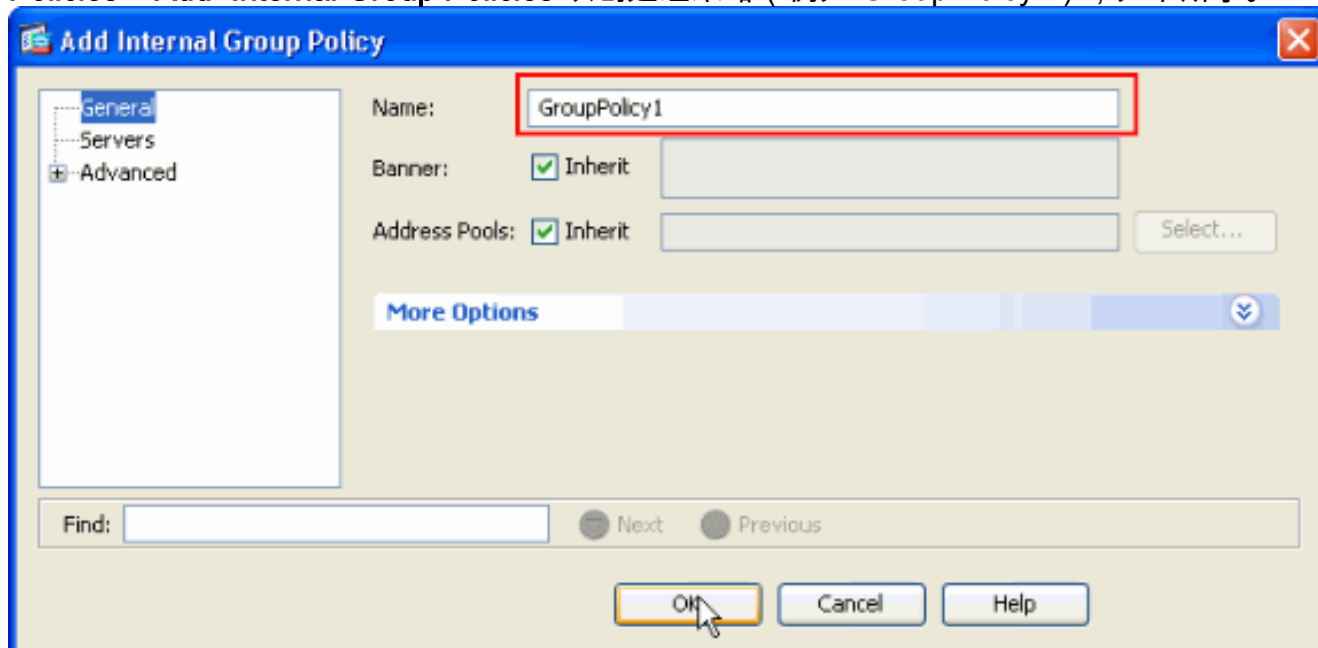
OK，然后单击 Apply。

3. 选择 **Configuration > Remote Access VPN > Network (Client) Access > Advanced > IPsec > Crypto Maps > Add** 以使用优先级为 1 的动态策略创建加密映射，如下所示。



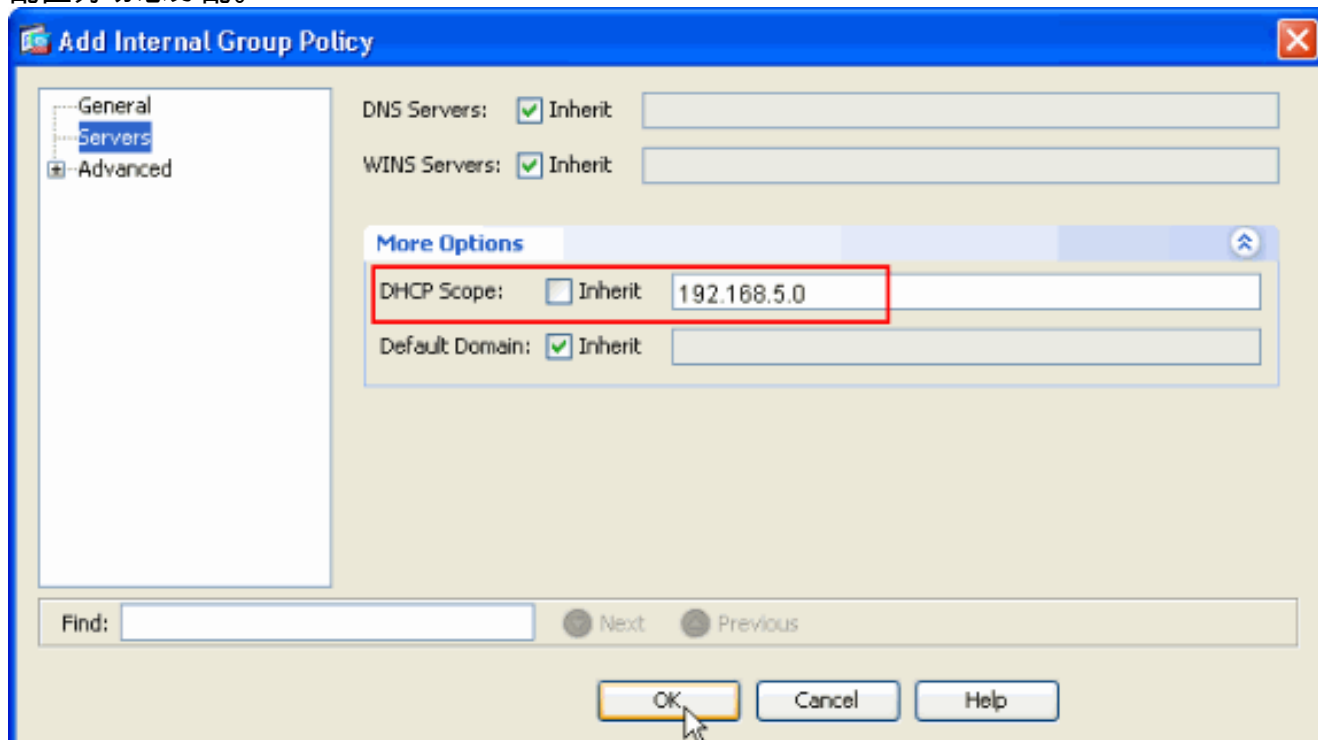
单击 OK，然后单击 Apply。

4. 选择 Configuration > Remote Access VPN > Network (Client) Access > Advanced > Group Policies > Add>Internal Group Policies 以创建组策略（例如 GroupPloicy1），如下所示。



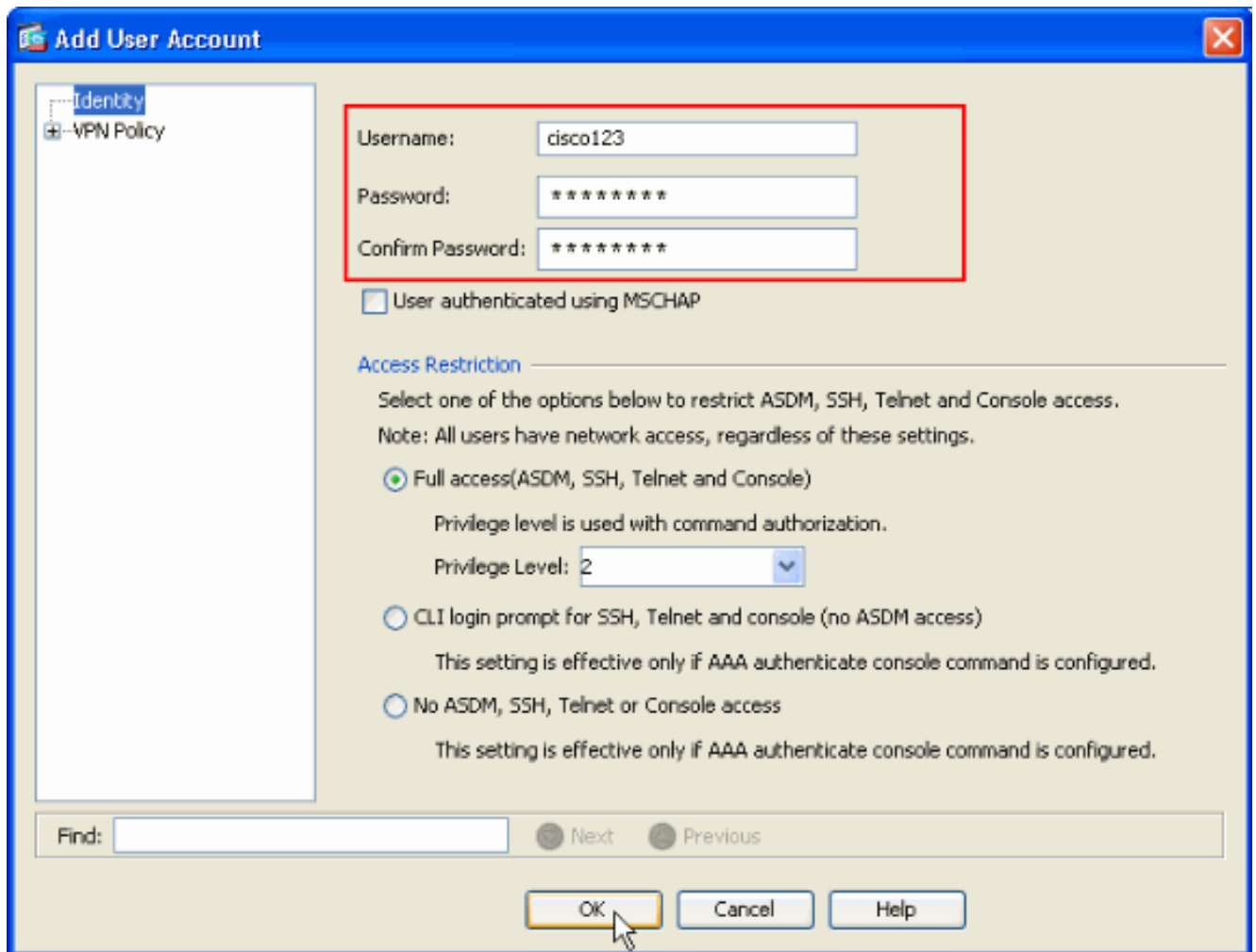
单击 OK，然后单击 Apply。

5. 选择 Configuration > Remote Access VPN > Network (Client) Access > Advanced > Group Policies > Add>Internal Group Policies>Servers>> 以便将 VPN 客户端用户的 DHCP 作用域配置为动态分配。

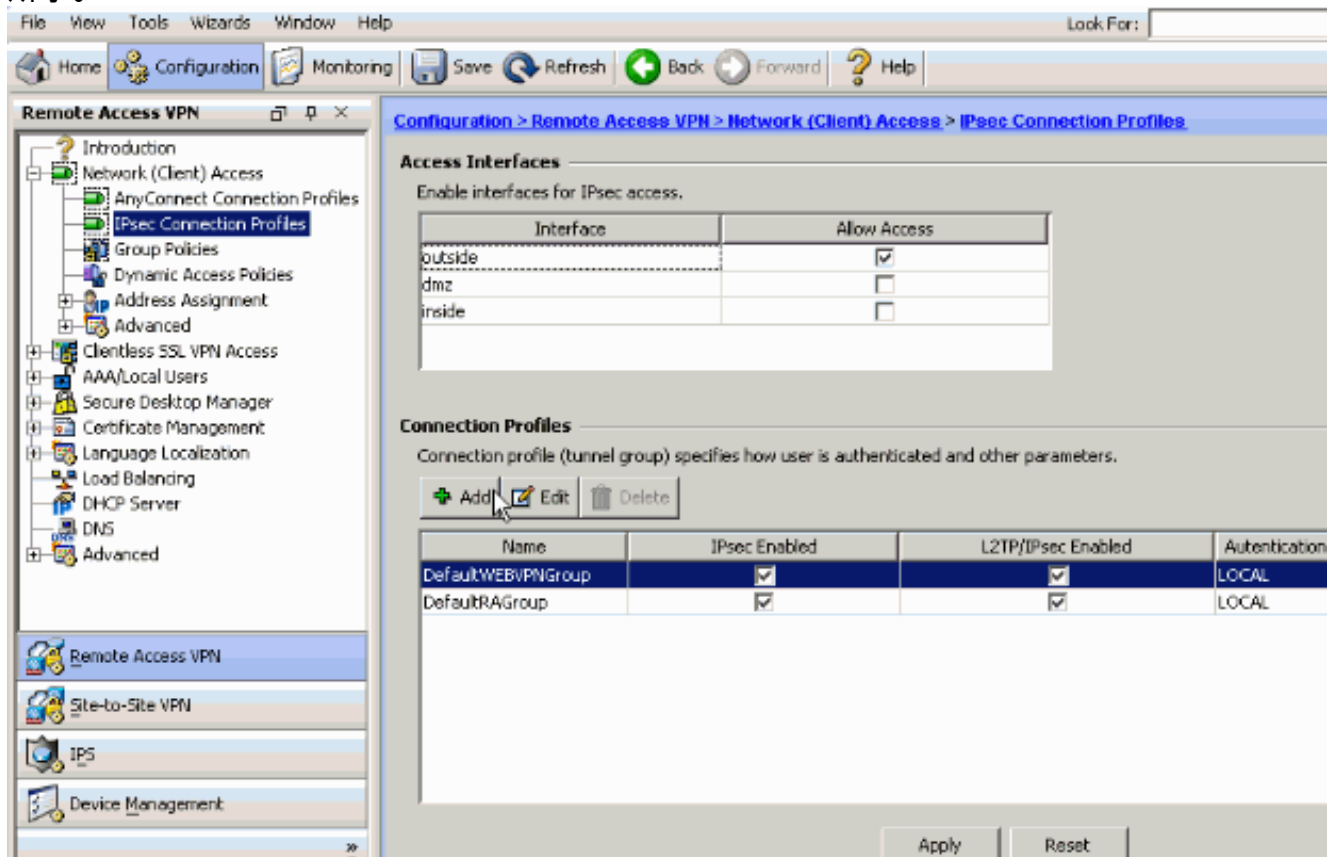


单击 OK，然后单击 Apply。Note: DHCP 作用域配置是可选操作。有关详细信息，请参阅[配置 DHCP 编址](#)。

6. 选择 Configuration > Remote Access VPN > AAA Setup > Local Users > Add 以创建用于 VPN 客户端访问的用户帐户（例如，用户名 - cisco123，口令 - cisco123）。

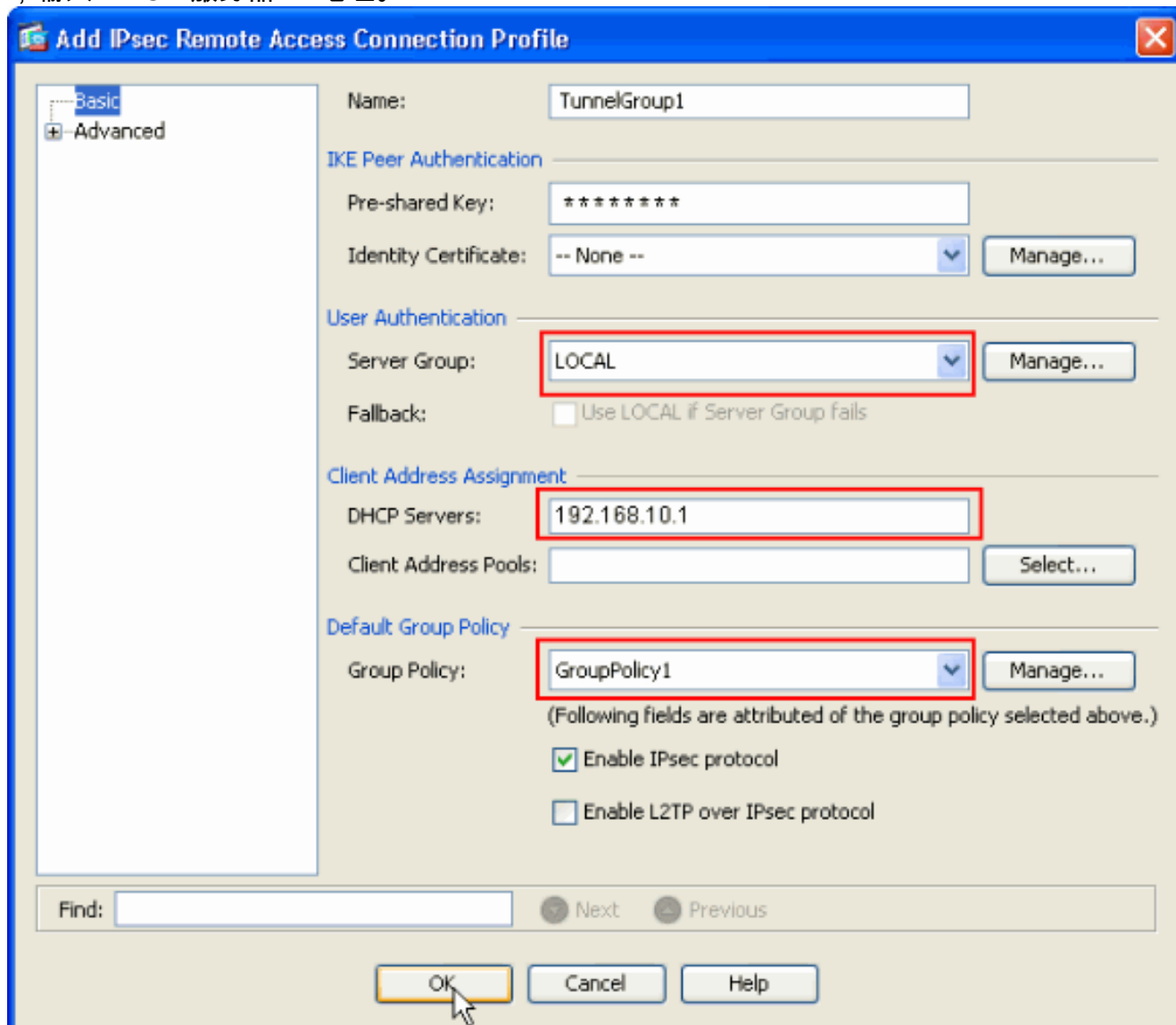


7. 选择 Configuration > Remote Access VPN > Network (Client) Access > IPsec Connection Profiles > Add> 以添加隧道组（例如，TunnelGroup1，Preshared Key 为 cisco123），如下所示。



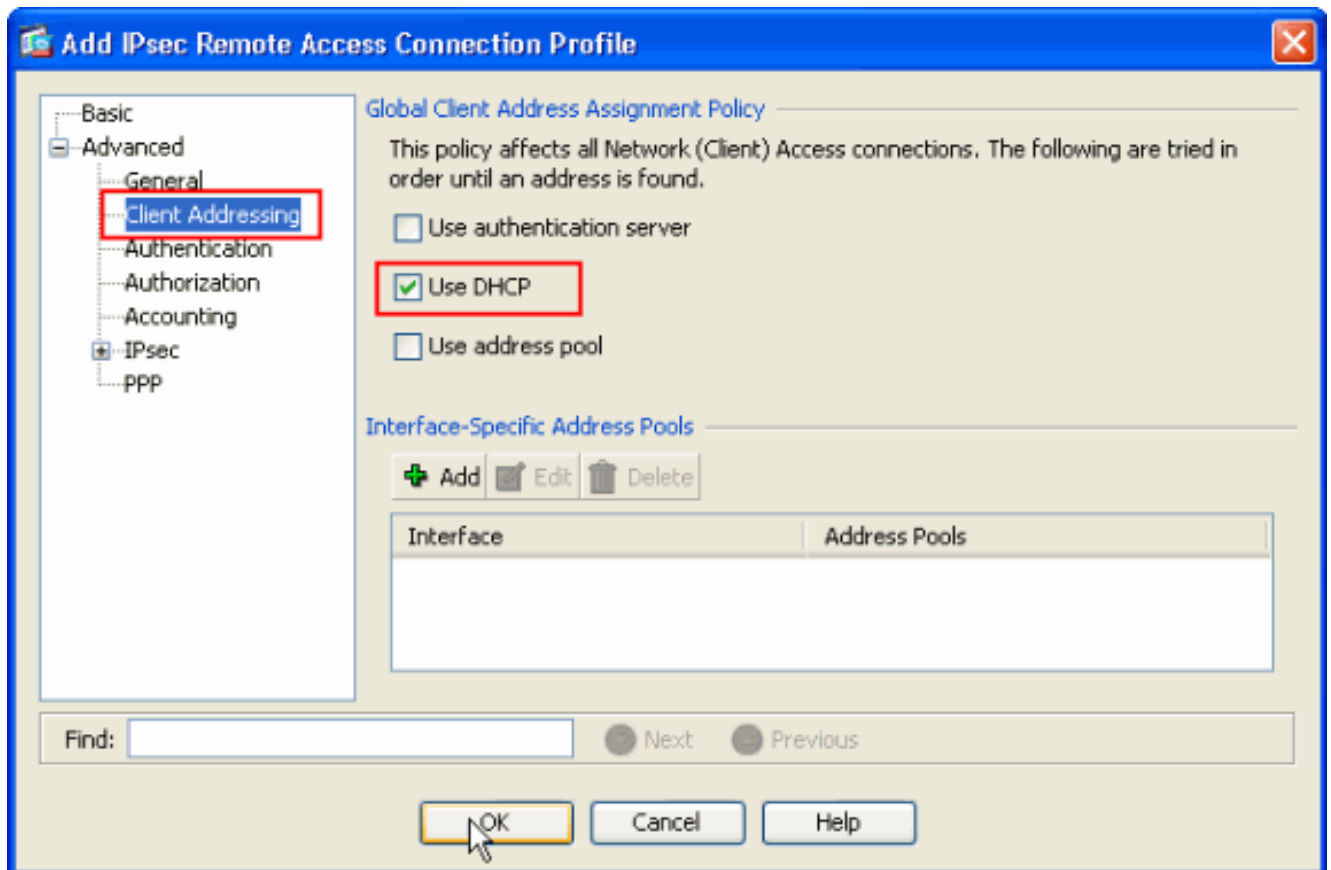
在 Basic 选项卡中，为 User Authentication 字段选择 LOCAL 作为 Server Group。为 Default

Group Policy 字段选择 **GroupPolicy1** 作为 Group Policy。在为 **DHCP Servers** 提供的空白处，输入 DHCP 服务器 IP 地址。



单击 Ok。

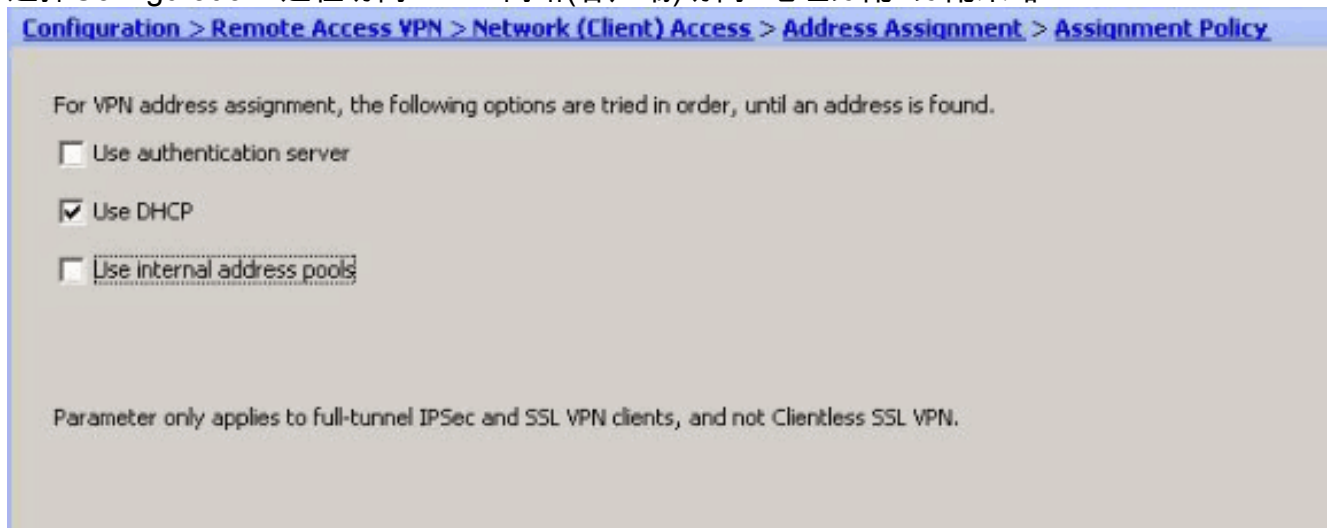
8. 选择 **Advanced > Client Addressing >** 并选中 Use DHCP 复选框，以使 DHCP 服务器向 VPN 客户端分配 IP 地址。**Note:** 确保 **Use authentication server** 和 **Use address pool** 两个复选框处于未选中状态。



ASDM 6.x的配置

同一种ASDM配置良好工作与ASDM版本6.x，除了一些较小修改根据ASDM路径。ASDM路径向某些字段有从ASDM版本6.2和以上的差异。与现有路径一起的修改下面是列出的。这里图象镜像在他们为所有主要ASDM版本依然是同样的案件没有附有。

1. Configuration>远程访问VPN >网络(客户端)访问>Advanced > IPsec > IKE策略>Add
2. Configuration>远程访问VPN >网络(客户端)访问>Advanced > IPsec > IPsec转换设置>Add
3. Configuration>远程访问VPN >网络(客户端)访问>Advanced > IPsec >加密映射>Add
4. 选择Configuration>远程访问VPN >网络(客户端)访问>组策略>Add >内部组策略
5. 选择Configuration>远程访问VPN >网络(客户端)访问>组策略>Add >Internal组策略>服务器
6. 选择Configuration>远程访问VPN >AAA设置的/本地用户>本地用户>Add
7. Configuration>远程访问VPN >网络(客户端)访问> IPsec连接Profiles>添加
8. 选择Configuration>远程访问VPN >网络(客户端)访问>地址分配>分配策略



默认情况下所有这三个选项被启用。Cisco ASA遵从同一顺序分配地址到VPN客户端。当您不

选定另外两个选项时，Cisco ASA不验证AAA服务器和本地地址池选项。默认值被启用的选项可以由show run全部验证|在请VPN添加命令。这是一输出示例:供您的参考：

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

关于此命令的更多信息，请参见VPN ADDR[分配](#)。

[使用 CLI 配置 ASA/PIX](#)

完成以下步骤，以便通过命令行配置 DHCP 服务器向 VPN 客户端提供 IP 地址。有关所使用的每个命令的详细信息，请参阅[配置远程接入 VPN](#) 或 [Cisco ASA 5500 系列自适应安全设备命令参考](#)。

在 ASA 设备上运行配置

```
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
```

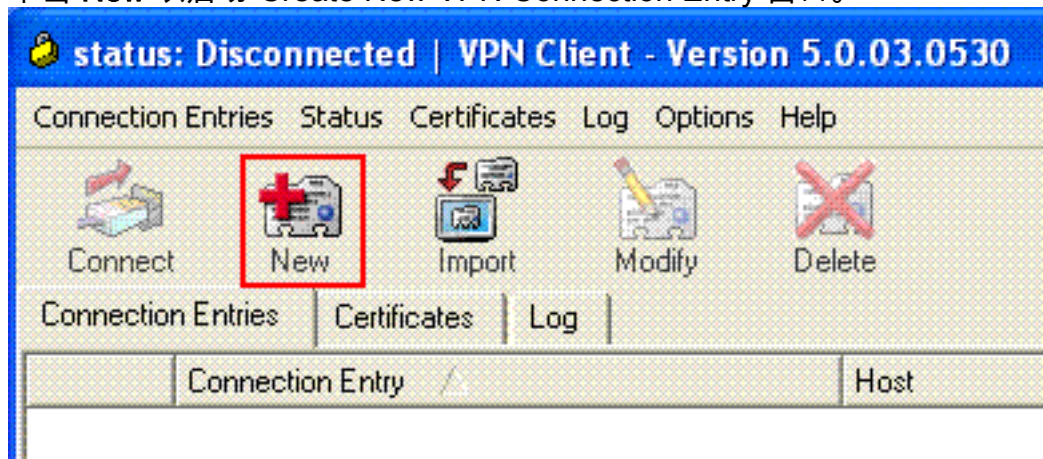
```
telnet timeout 5  
ssh timeout 5  
console timeout 0  
threat-detection basic-threat  
threat-detection statistics access-list  
!  
class-map inspection_default  
  match default-inspection-traffic  
!  
!  
policy-map type inspect dns preset_dns_map  
  parameters  
    message-length maximum 512  
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#

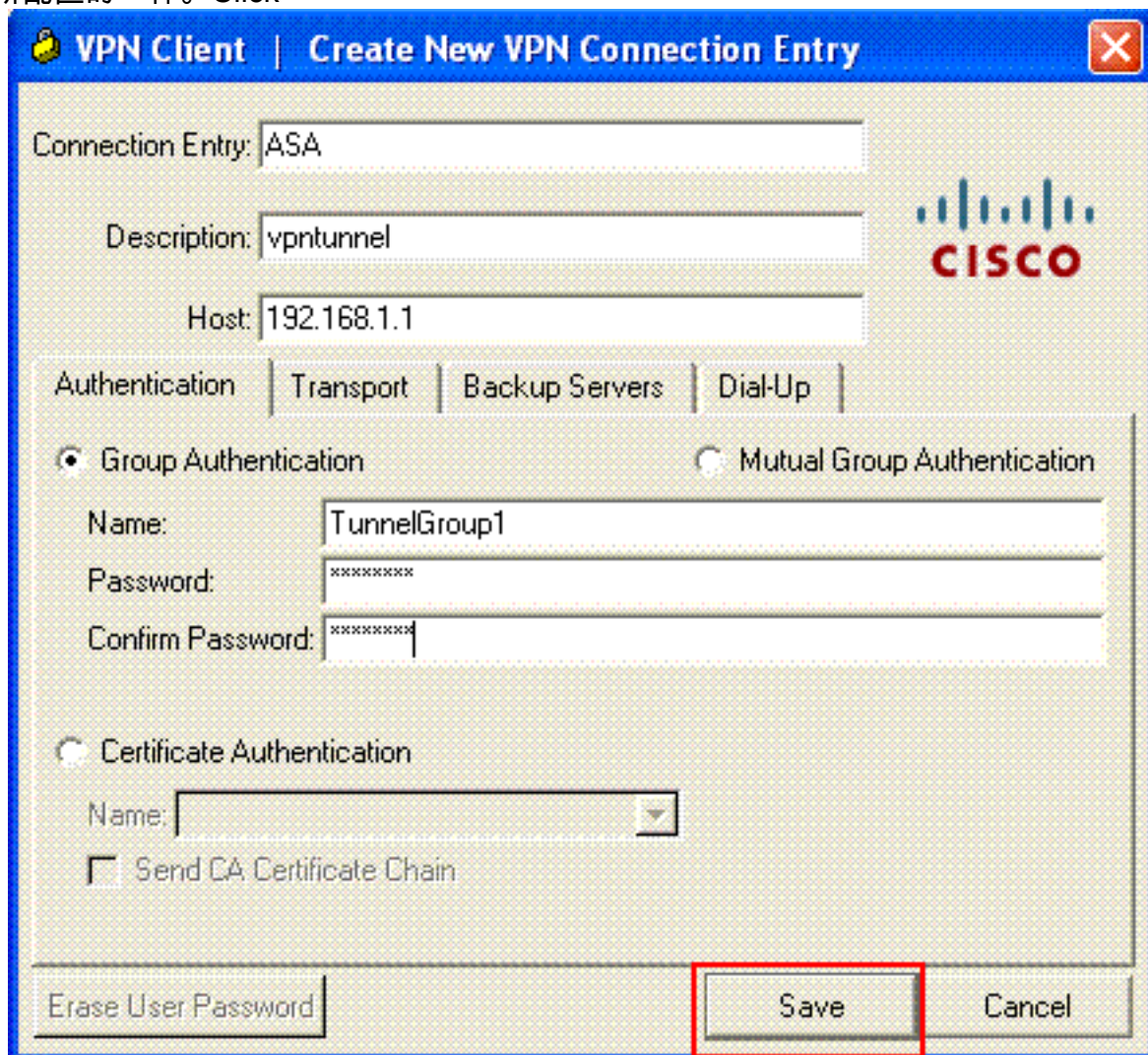
Cisco VPN 客户端配置

尝试使用 Cisco VPN 客户端连接到 Cisco ASA 以验证是否成功配置了 ASA。

1. 选择 **Start > Programs > Cisco Systems VPN Client > VPN Client**。
2. 单击 **New** 以启动 Create New VPN Connection Entry 窗口。

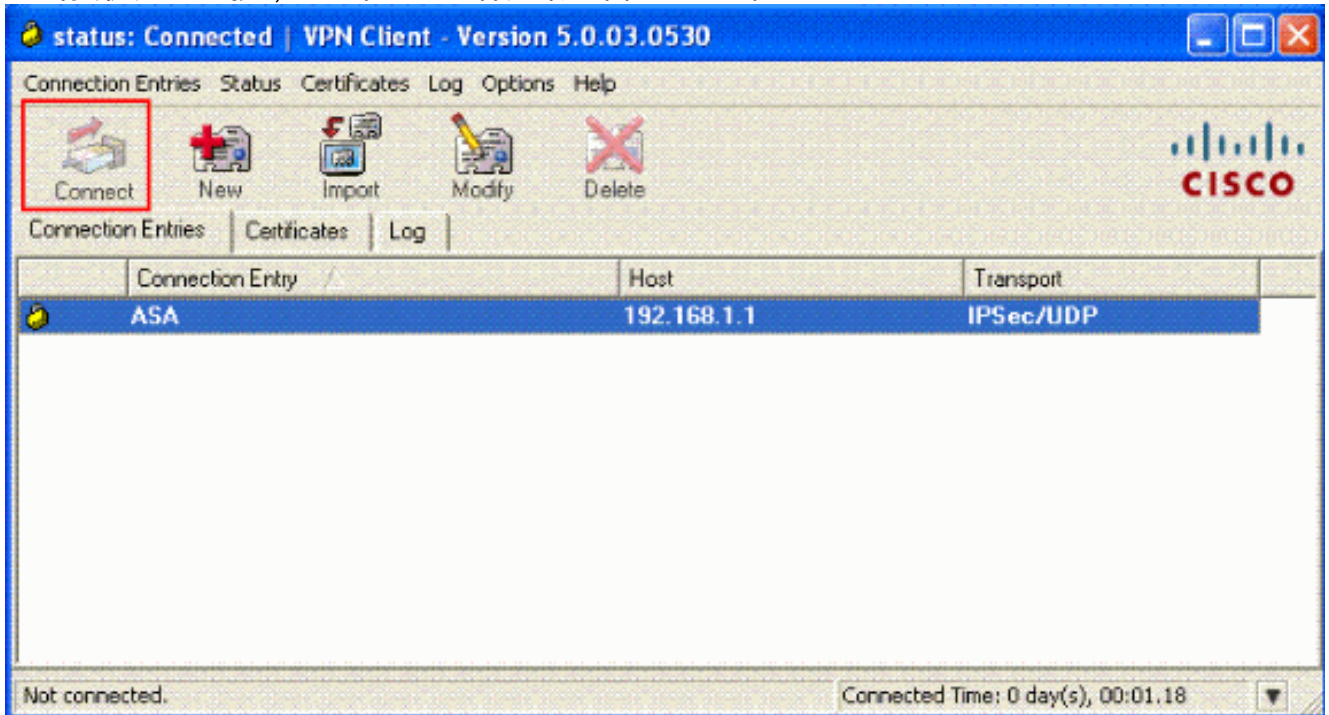


3. 填写新连接的详细信息。输入 Connection Entry 的名称与说明。在 Host 框中输入 **ASA 的外部 IP 地址**。然后请输入VPN隧道组name(TunnelGroup1)和密码(预共享密钥- cisco123)如 ASA所配置的一样。Click

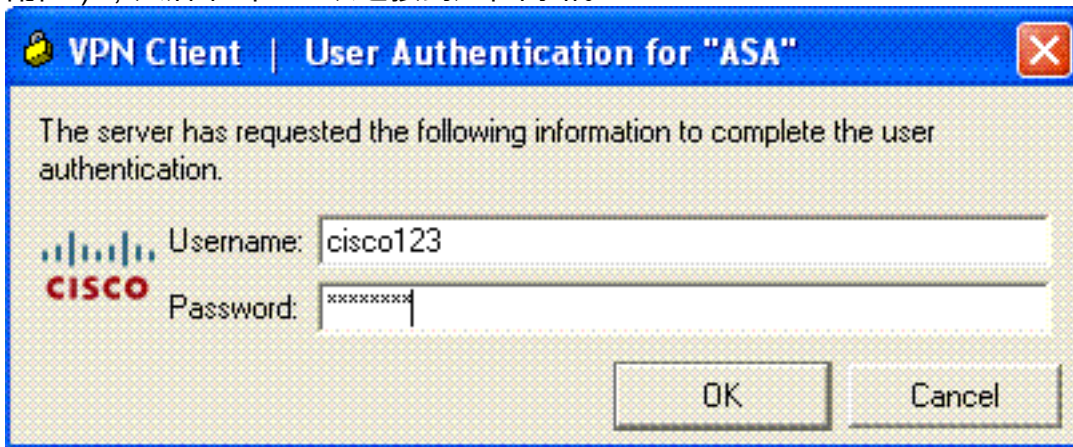


Save.

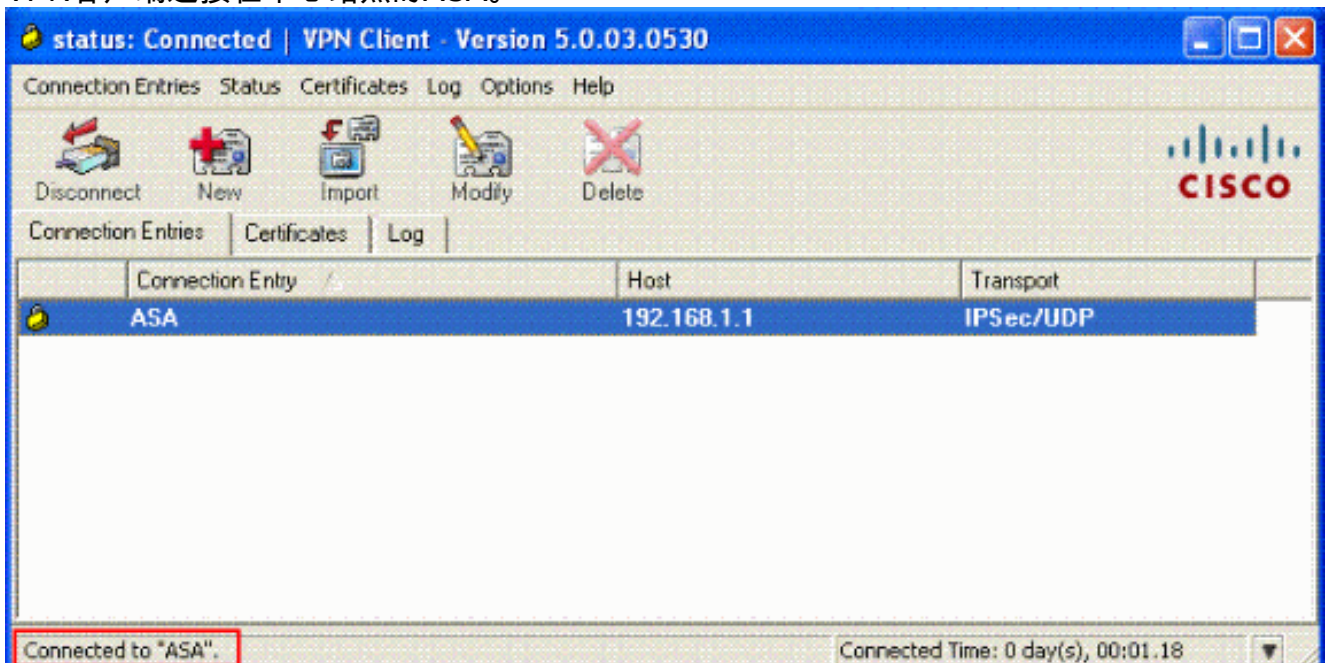
4. 单击要使用的连接，然后在 VPN 客户端主窗口中单击 **Connect**。



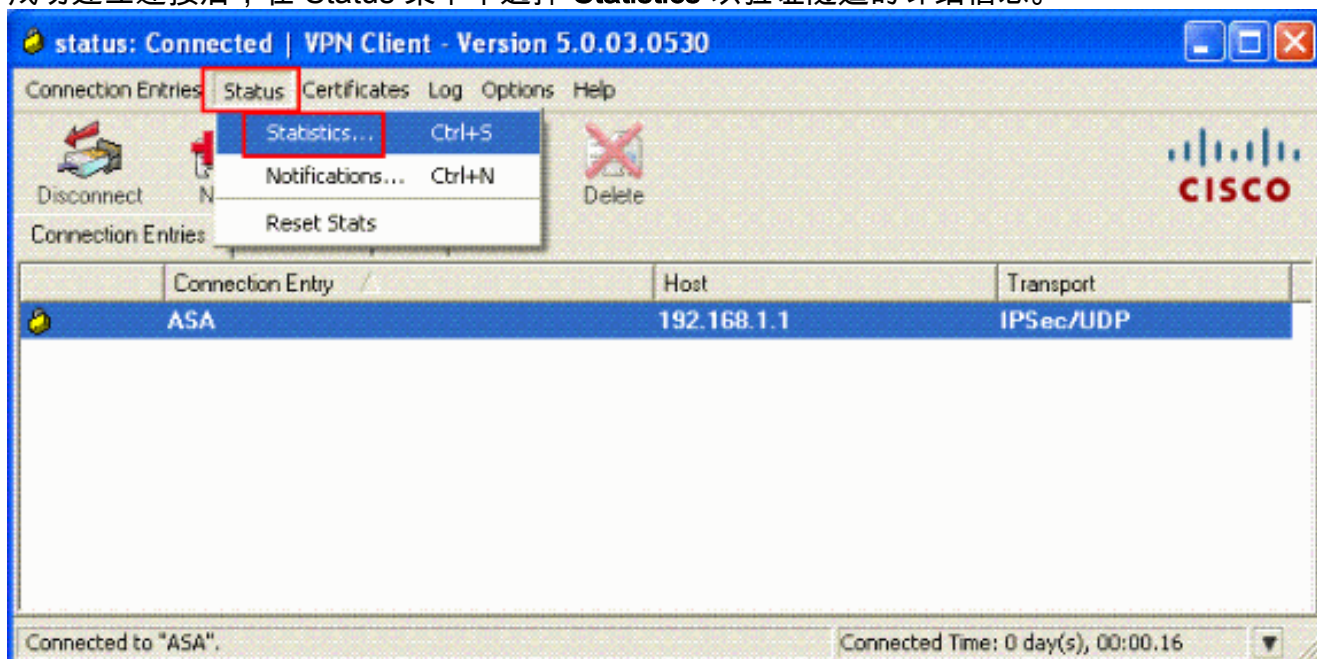
5. 当提示，请输入用户名：**cisco123** 和 Password:**cisco123**（按照上面对 ASA 进行的扩展验证配置），然后单击 OK 以连接到远程网络。



6. VPN客户端连接在中心站点的ASA。



7. 成功建立连接后，在 Status 菜单中选择 **Statistics** 以验证隧道的详细信息。



Verify

显示命令

使用本部分可确定配置能否正常运行。

[命令输出解释程序 \(仅限注册用户\)](#) (OIT) 支持某些 **show** 命令。使用 OIT 可查看对 **show** 命令输出的分析。

- **show crypto isakmp sa** — 显示对等体上的所有当前 IKE 安全关联 (SA)。
- **show crypto ipsec sa** — 显示当前 SA 使用的设置。

```
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, #rcv 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
```

[Troubleshoot](#)

本部分提供的信息可用于对配置进行故障排除。此外本部分还提供了 debug 输出示例。

Note: 关于排除远程访问IPSec VPN故障的更多信息请参考最[普通的L2L和排除解决方案故障的远程访问IPSec VPN](#)

[清除安全关联](#)

进行故障排除时，请务必在做出更改后清除现有的安全关联。在 PIX 的特权模式下，使用以下命令：

- **clear [crypto] ipsec sa** - 删除活动 IPsec SA。crypto的关键字是可选的。
- **clear [crypto] isakmp sa** - 删除活动 IKE SA。crypto的关键字是可选的。

[故障排除命令](#)

[命令输出解释程序](#) ([仅限注册用户](#)) (OIT) 支持某些 **show** 命令。使用 OIT 可查看对 show 命令输出的分析。

Note: 使用 **debug** 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

- **debug crypto ipsec 7** - 显示第 2 阶段的 IPsec 协商。
- **debug crypto isakmp 7** - 显示第 1 阶段的 ISAKMP 协商。

[示例调试输出](#)

- [ASA 8.0](#)
- [适用于 Windows 的 VPN 客户端 5.0](#)

[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, processing 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, processing notify payload

Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, processing VID payload

Jan 22 22:21:24 [IKEv1 DEBUG]: Group = TunnelGroup1, IP = 192.168.1.2, Processing 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, processing 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 = 192.168.1.2, MODE_CFG: Received request for Default Domain Name!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE_CFG: Received request for Split Tunnel List!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE_CFG: Received request for Split DNS!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE_CFG: Received request for PFS setting!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE_CFG: Received request for Client Browser Proxy Setting!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, 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 = 192.168.1.2, 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 = 192.168.1.2, MODE_CFG: Received request for FWTYPE!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE_CFG: Received request for DHCP hostname for DDNS is: Wireless123!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, MODE_CFG: Received request for UDP Port!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Obtained IP addr (192.168.5.1) prior to initiating Mode Cfg (XAuth enabled)

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 = 192.168.1.2, constructing blank hash payload

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Send Client Browser Proxy Attributes!

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Browser Proxy set to No-Modify. Browser Proxy data will NOT be included in the mode-cfg reply

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=2663a1dd) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0) total length : 158

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Delay Quick Mode processing, Cert/Trans Exch/RM DSID in progress

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, 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 = 192.168.1.2, sending notify message

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=f4435669) 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=541f8e43) 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 = 192.168.1.2, processing hash payload

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, processing SA payload

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, processing nonce payload

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, 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, Protocol 0, Port 0

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, 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 = 192.168.1.2, processing IPsec SA payload

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, IPsec SA Proposal # 14, Transform # 1 acceptable Matches global IPsec 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 = 192.168.1.2, IKE got SPI from key engine: SPI = 0x31de01d8

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, oakley constructing quick mode

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 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 seconds

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

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, constructing proxy ID

Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, 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 = 192.168.1.2, Sending RESPONDER LIFETIME notification to Initiator

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=541f8e43) 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=541f8e43) with payloads : HDR + HASH (8) + NONE (0) total length : 48
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, processing hash payload
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, loading all IPSEC SAs
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Generating Quick Mode Key!
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, 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 = 192.168.1.2, IKE got a KEY_ADD msg for SA: SPI = 0x8b7597a9
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, Pitcher: received KEY_UPDATE, spi 0x31de01d8
Jan 22 22:21:31 [IKEv1 DEBUG]: Group = TunnelGroup1, Username = cisco123, IP = 192.168.1.2, 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=78f7d3ae) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE (0) total length : 80

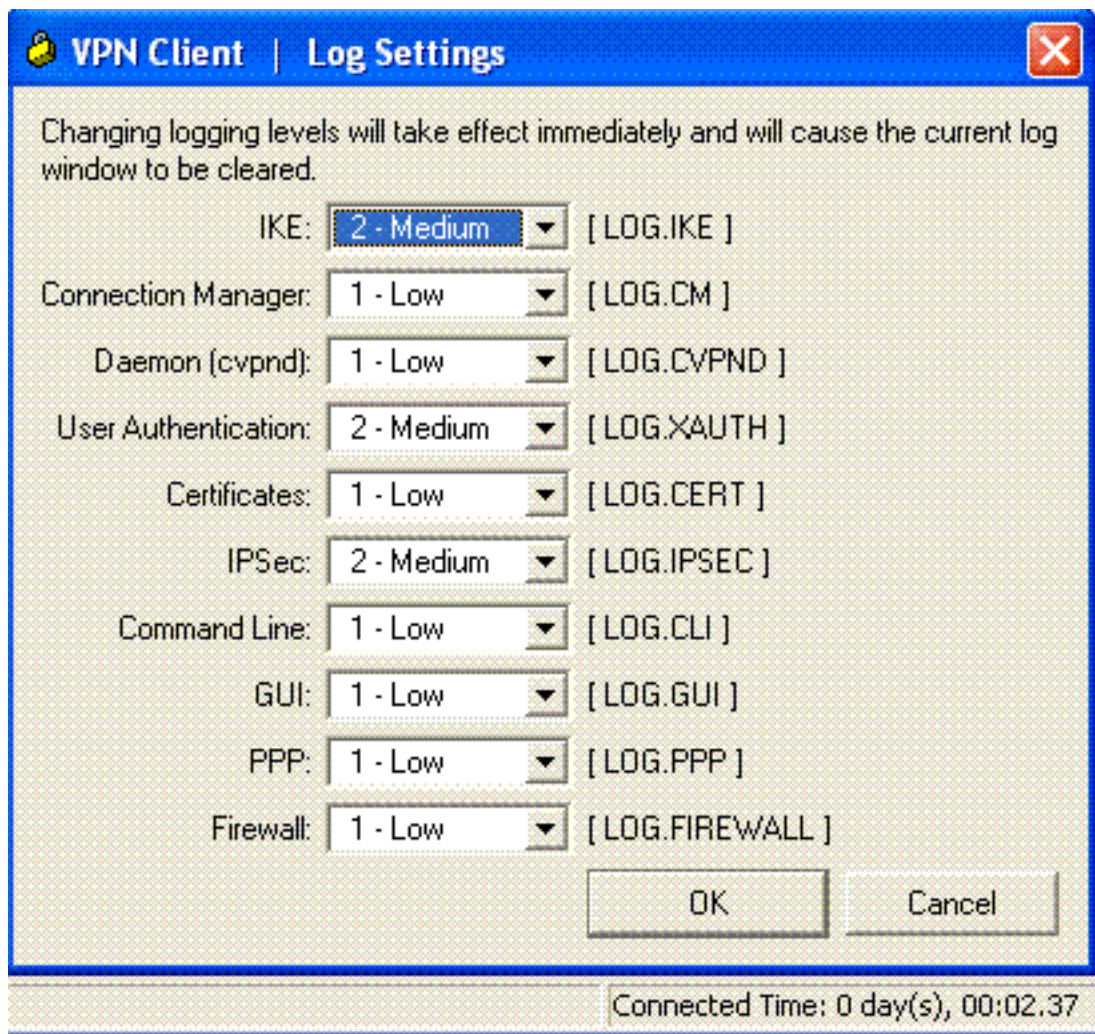
ASA#**debug crypto ipsec 7**

!--- 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

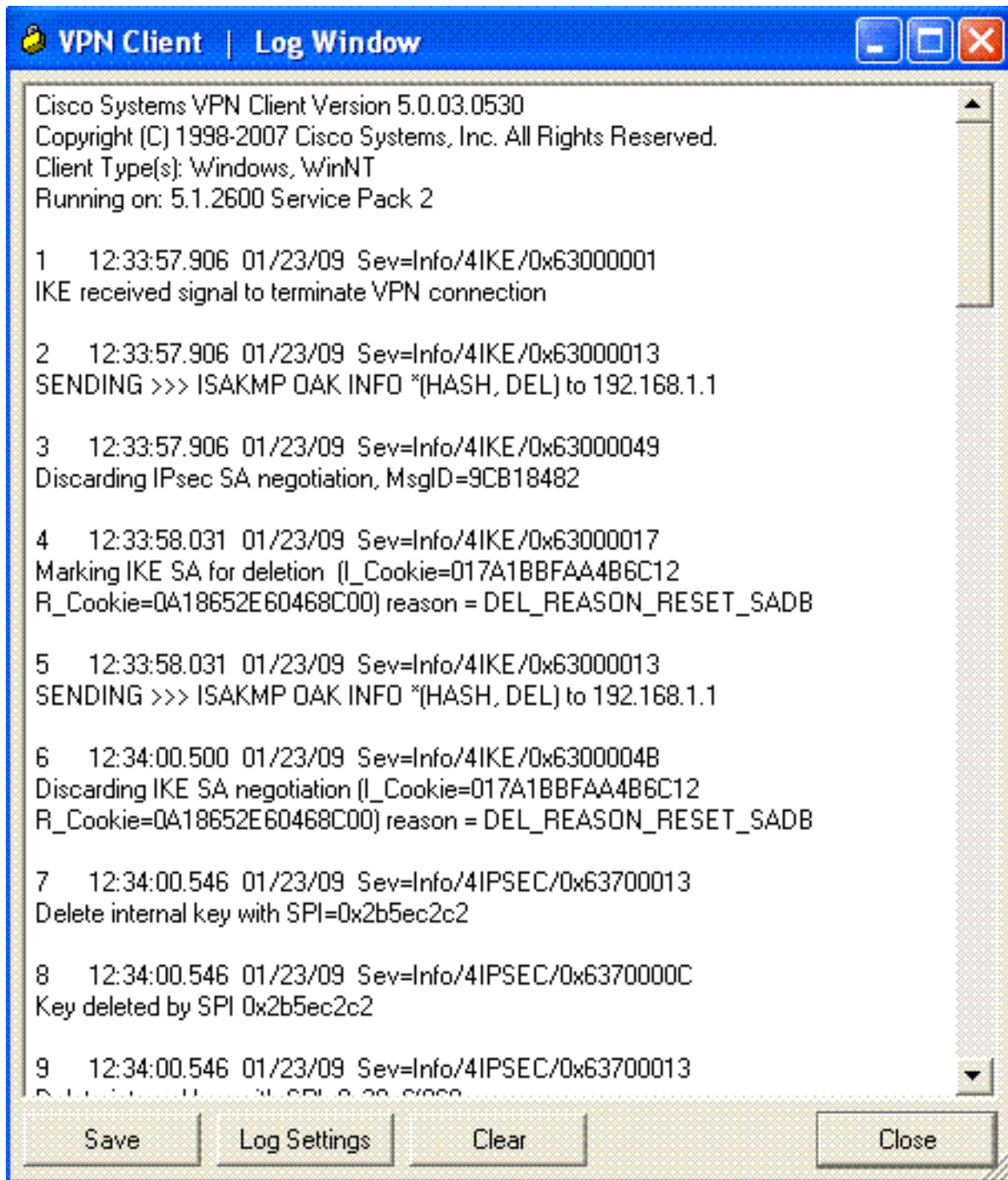
SPI: 0x00000000 Use SPI: false IPSEC: Completed inbound tunnel flow rule, SPI 0x7F3C985A Rule ID: 0xD556AF60 IPSEC: New inbound decrypt rule, SPI 0x7F3C985A Src addr: 192.168.1.2 Src mask: 255.255.255.255 Dst addr: 192.168.1.1 Dst mask: 255.255.255.255 Src ports Upper: 0 Lower: 0 Op : ignore Dst ports 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

[适用于 Windows 的 VPN 客户端 5.0](#)

选择 **Log > Log settings** 以便在 VPN 客户端中启用日志级别。



选择 **Log > Log Window** 以查看 VPN 客户端中的日志项。



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