

配置使用PPTP和MPPE的Cisco路由器和VPN客户端

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简介

本文档介绍如何配置 Cisco IOS® 路由器以便终止 Windows 2000 点对点隧道协议 (PPTP) 客户端和 Microsoft 点对点加密协议 (MPPE)。

有关使用 Cisco 安全访问控制服务器 (ACS) 进行 PPTP 身份验证的详细信息，请参阅[为 Windows 路由器 PPTP 身份验证配置 Cisco Secure ACS。](#)

先决条件

要求

本文档没有任何特定的要求。

使用的组件

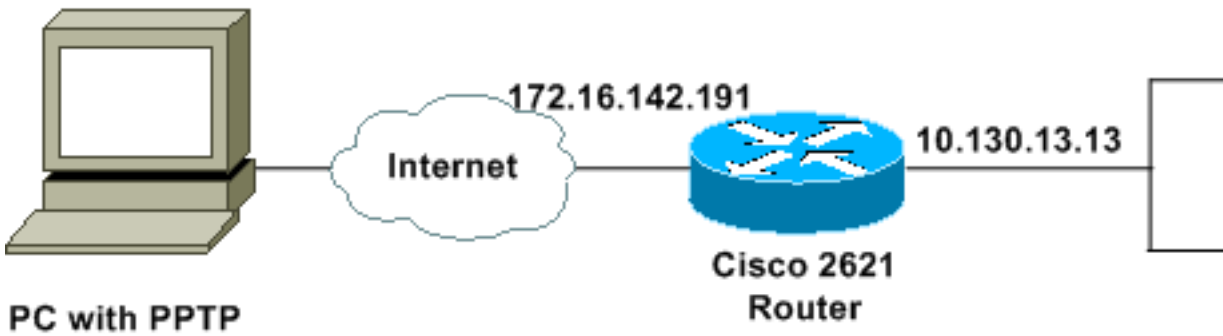
本文档中的信息基于以下软件和硬件版本：

- 运行 Cisco IOS 软件版本 12.2 的 Cisco 2621 路由器
- Microsoft Windows 2000

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

网络图

本文档使用以下网络设置：



规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

PPTP 路由器配置

这些 IOS 命令适用于所有支持 PPTP 的平台。

```
2621#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
!--- Enable virtual private dial-up networking. 2621(config)#vpdn enable
!--- Enters VPDN group configuration mode for the specified VPDN group. 2621(config)#vpdn-group
1
!--- Enters VPDN accept-dialin configuration mode !--- and enables the router to accept dial-in
requests. 2621(config-vpdn)#accept-dialin
!--- Specifies which PPTP protocol is used. 2621(config-vpdn-acc-in)#protocol pptp
!--- Specifies the virtual template that is used !--- in order to clone the virtual access
interface. 2621(config-vpdn-acc-in)#virtual-template 1
2621(config-vpdn-acc-in)#exit

2621(config)#ip local pool test 192.168.1.1 192.168.1.250
!--- Create virtual-template interface used for cloning !--- virtual-access interfaces with the
use of address pool test !--- with Challenge Authentication Protocol (CHAP) authentication, PAP,
and MS-CHAP. 2621(config)#interface virtual-template 1

2621(config-if)#encapsulation ppp
2621(config-if)#peer default ip address pool test
2621(config-if)#ip unnumbered FastEthernet0/0
2621(config-if)#no keepalive
2621(config-if)#ppp encrypt mppe auto
2621(config-if)#ppp authentication pap chap ms-chap
```

Cisco 2621 路由器

```
2621#show run
Building configuration...

Current configuration : 1566 bytes
!
version 12.2
service timestamps debug datetime msec localtime
```



```

no ip route-cache
no ip mroute-cache
duplex auto
speed auto
!
interface FastEthernet0/1
ip address 10.130.13.13 255.255.0.0
duplex auto
speed auto
!
!--- Create virtual-template interface used for cloning
!--- virtual-access interfaces with the use of address
pool test !--- with CHAP authentication, PAP, and MS-
CHAP. interface Virtual-Template1
ip unnumbered FastEthernet0/0
peer default ip address pool test
no keepalive
ppp encrypt mppe auto
ppp authentication pap chap ms-chap
!
!--- Create IP pool named test and specify IP range. ip
local pool test 192.168.1.1 192.168.1.250
no ip http server
no ip http secure-server
ip classless
ip route 0.0.0.0 0.0.0.0 172.16.142.1
!
ip pim bidir-enable
!
!
!
call rsvp-sync
!
!
mgcp profile default
!
dial-peer cor custom
!
!
!
!
!
line con 0
exec-timeout 0 0
line aux 0
line vty 0 4
password cisco
login
!
!
end
2621#

```

使用 MPPE 和 MS-CHAP 配置路由器

```

!--- Enter configuration commands, one per line. !--- End with CNTL/Z. 2621(config)#interface
Virtual-Template1
2621(config-if)#ppp authentication ms-chap
2621(config-if)#ppp encrypt mppe ?

```

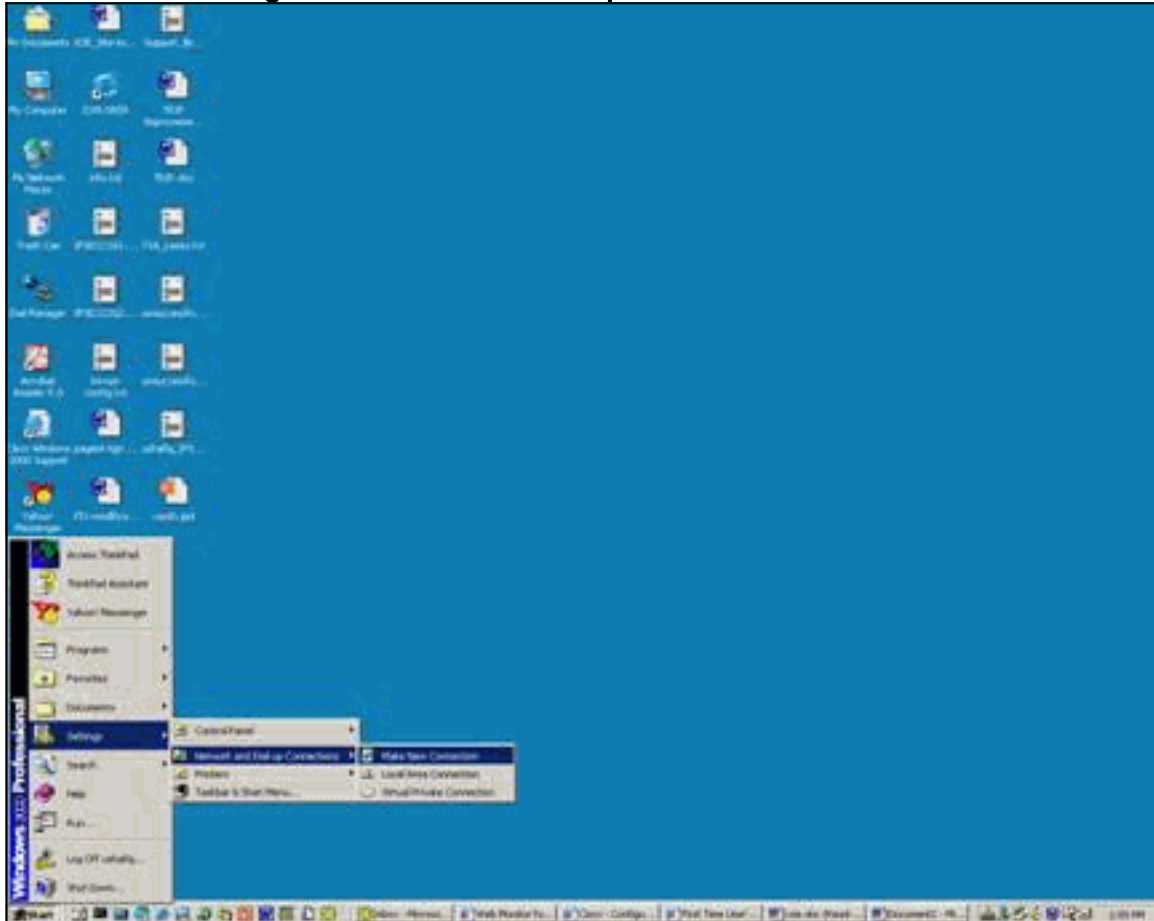
128 128 Bit Encryption only
40 40 Bit Encryption only
auto Will offer 40 and 128 bit if available

```
2621(config-if)#ppp encrypt mppe auto  
2621(config-if)#ppp encrypt mppe auto required
```

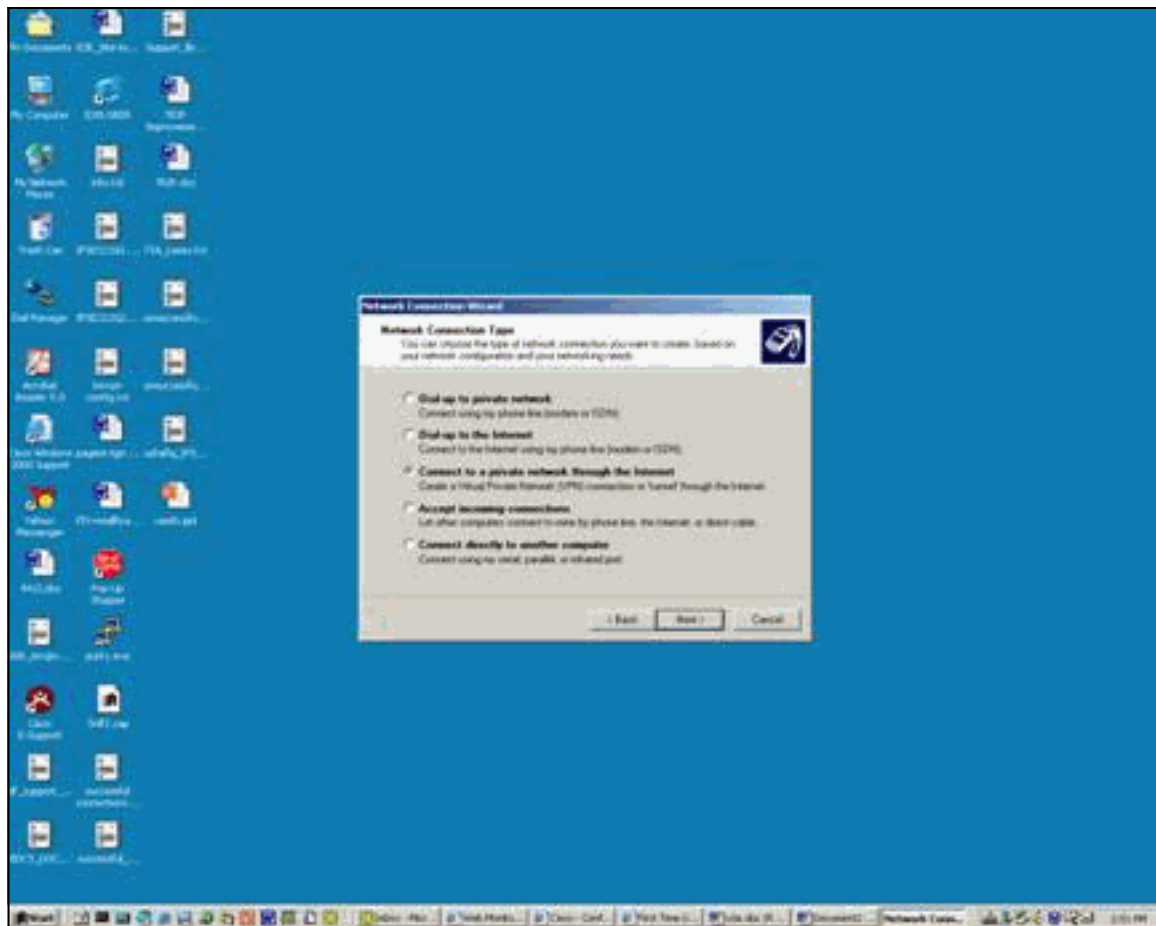
Windows 2000 VPN (PPTP) 设置和配置

请完成以下步骤：

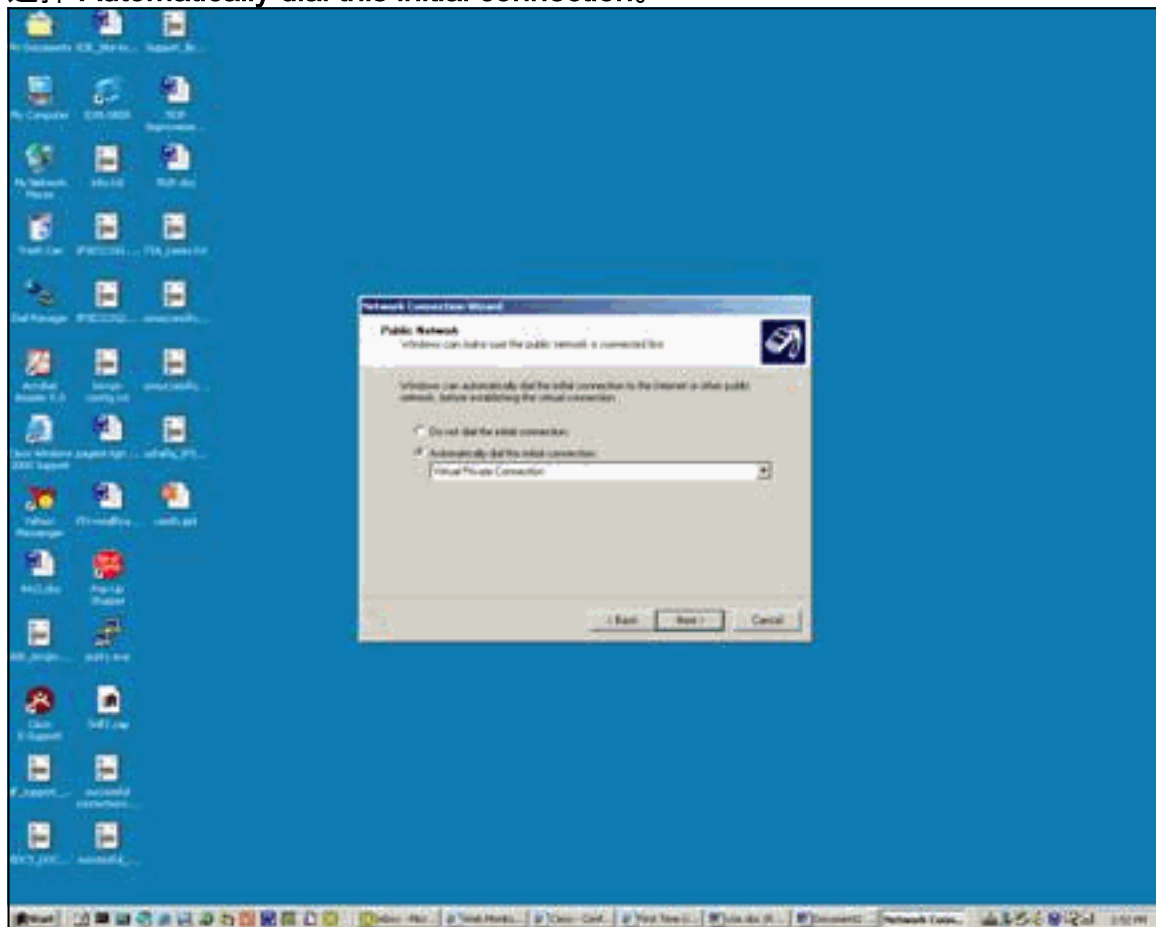
1. 选择 **Start > Settings > Network and Dial-up Connections > Make New Connection。**



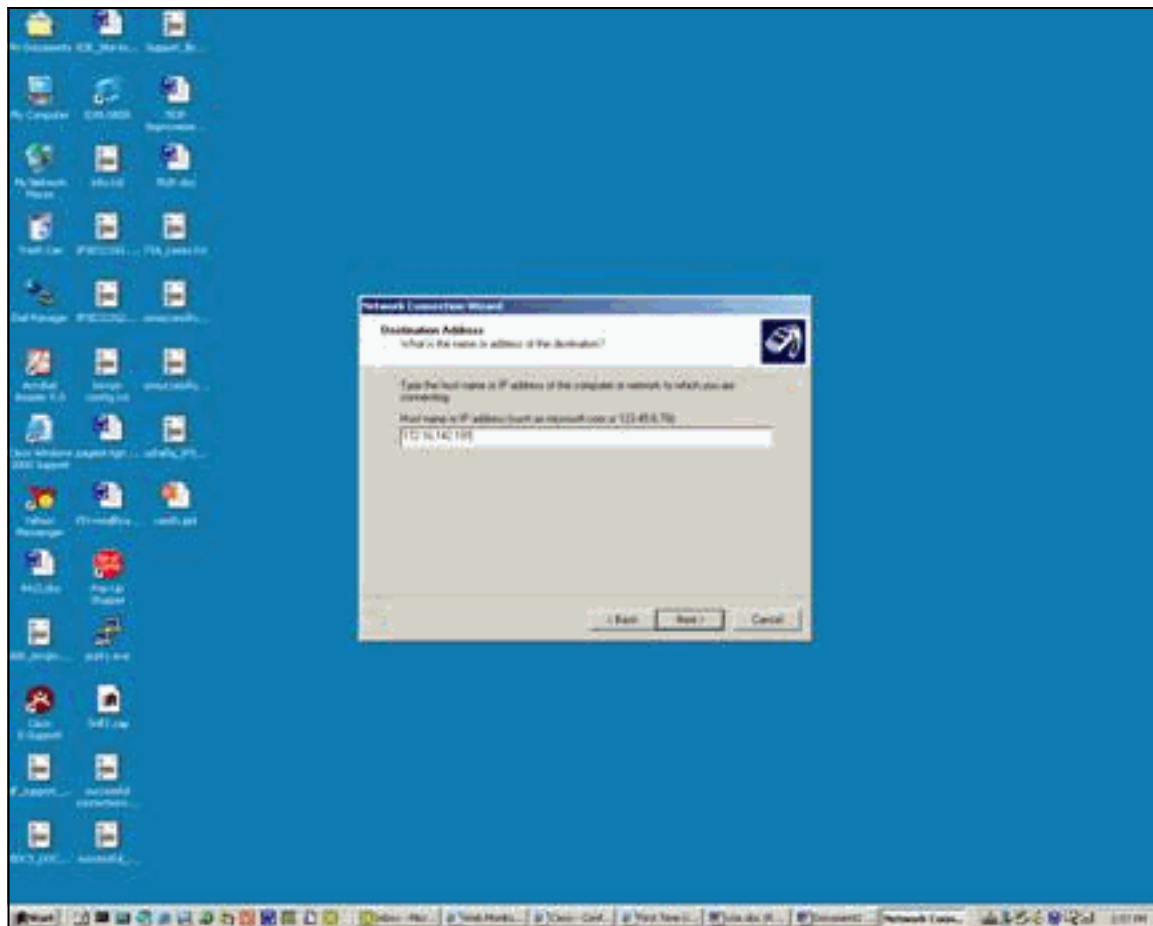
2. 出现 Network Connection Wizard 窗口后，请选择 **Network Connection Type** 并通过 Internet 连接至专用网络。



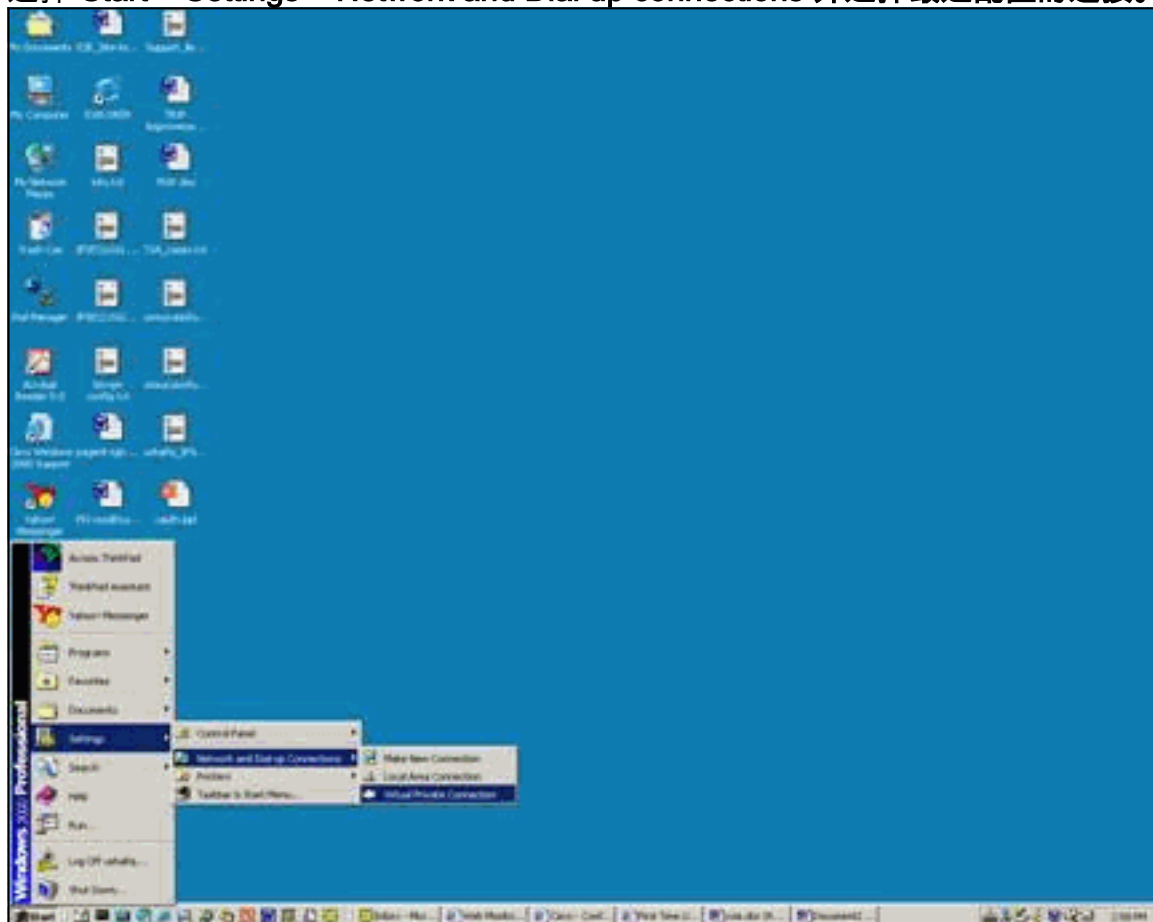
3. 选择 Automatically dial this initial connection。



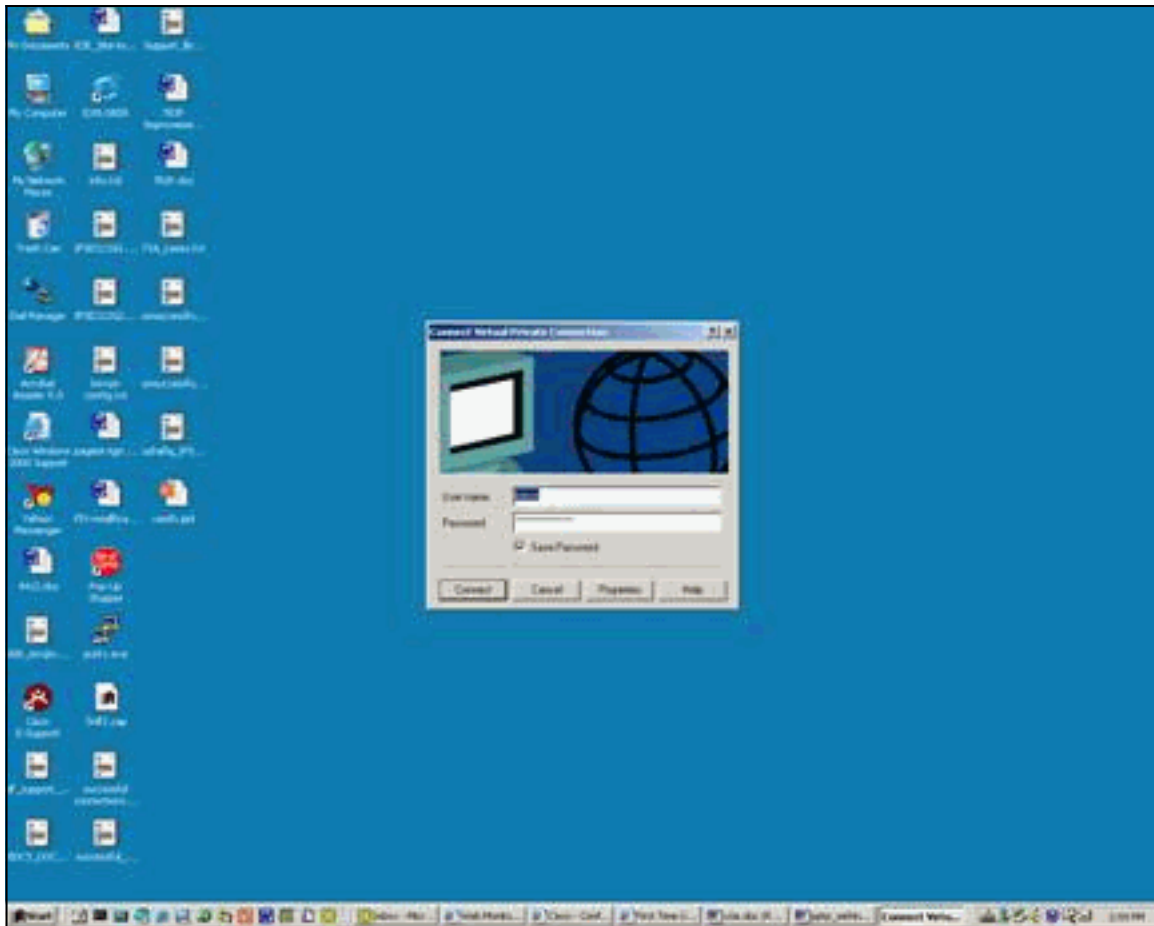
4. 在 Host 或 IP 地址栏中指定目标地址并单击 Next。



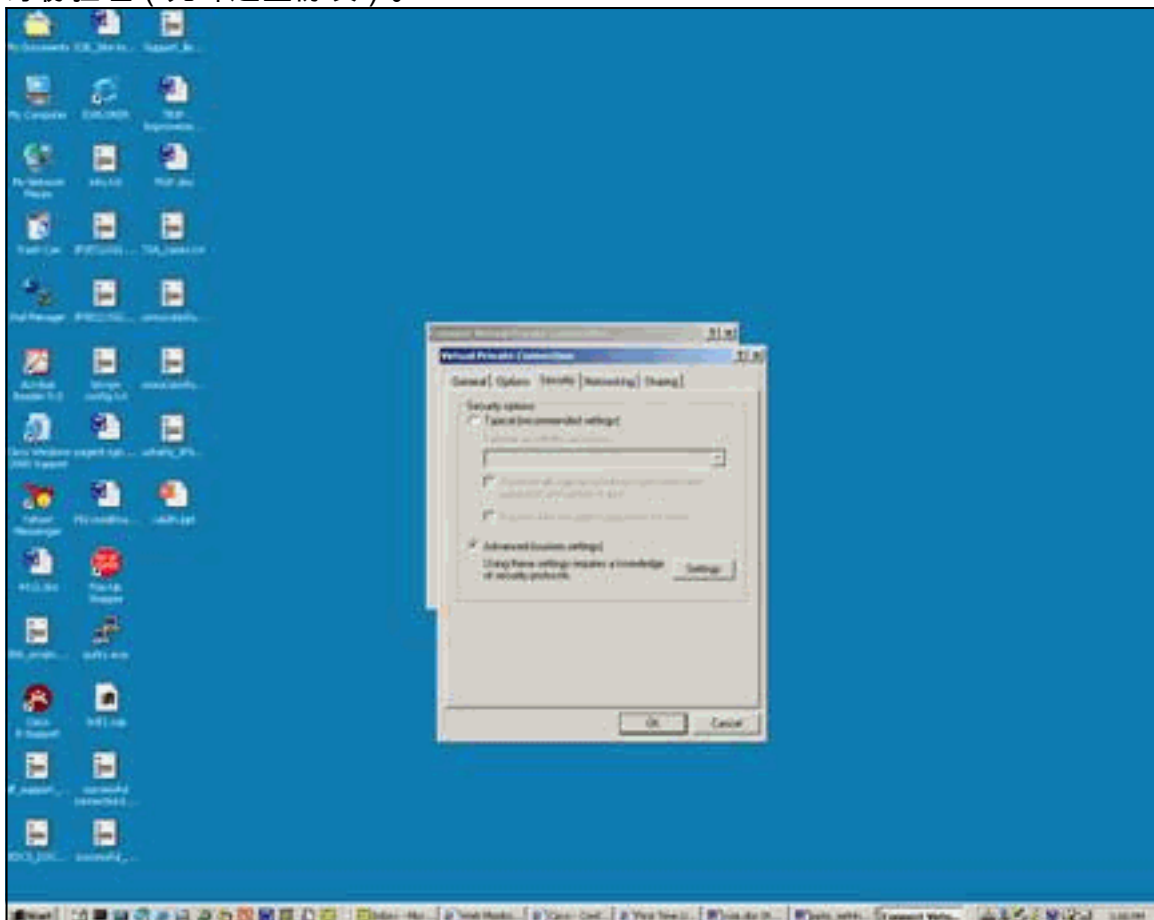
5. 选择 **Start > Settings > Network and Dial up connections** 并选择最近配置的连接。

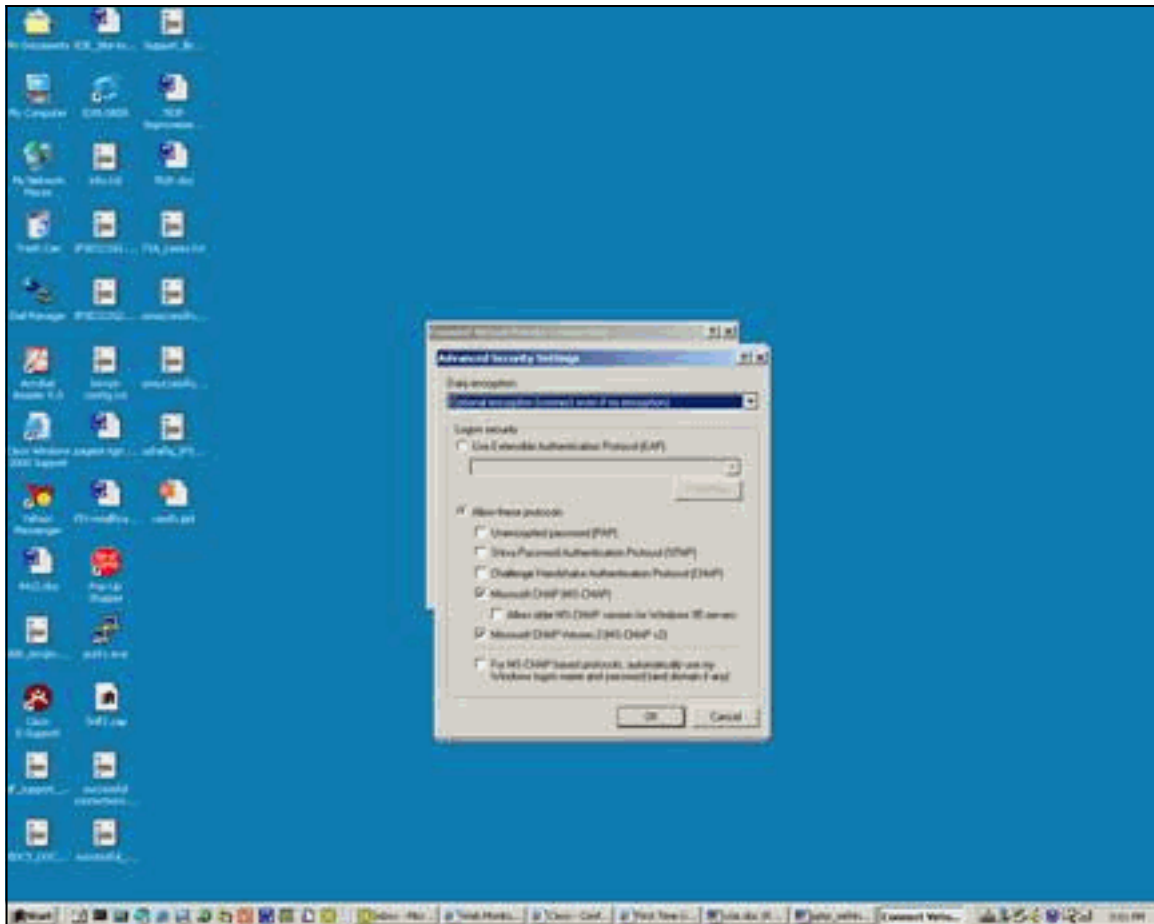


6. 出现此窗口后，请选择 **Properties > Security**，正确设置选项。

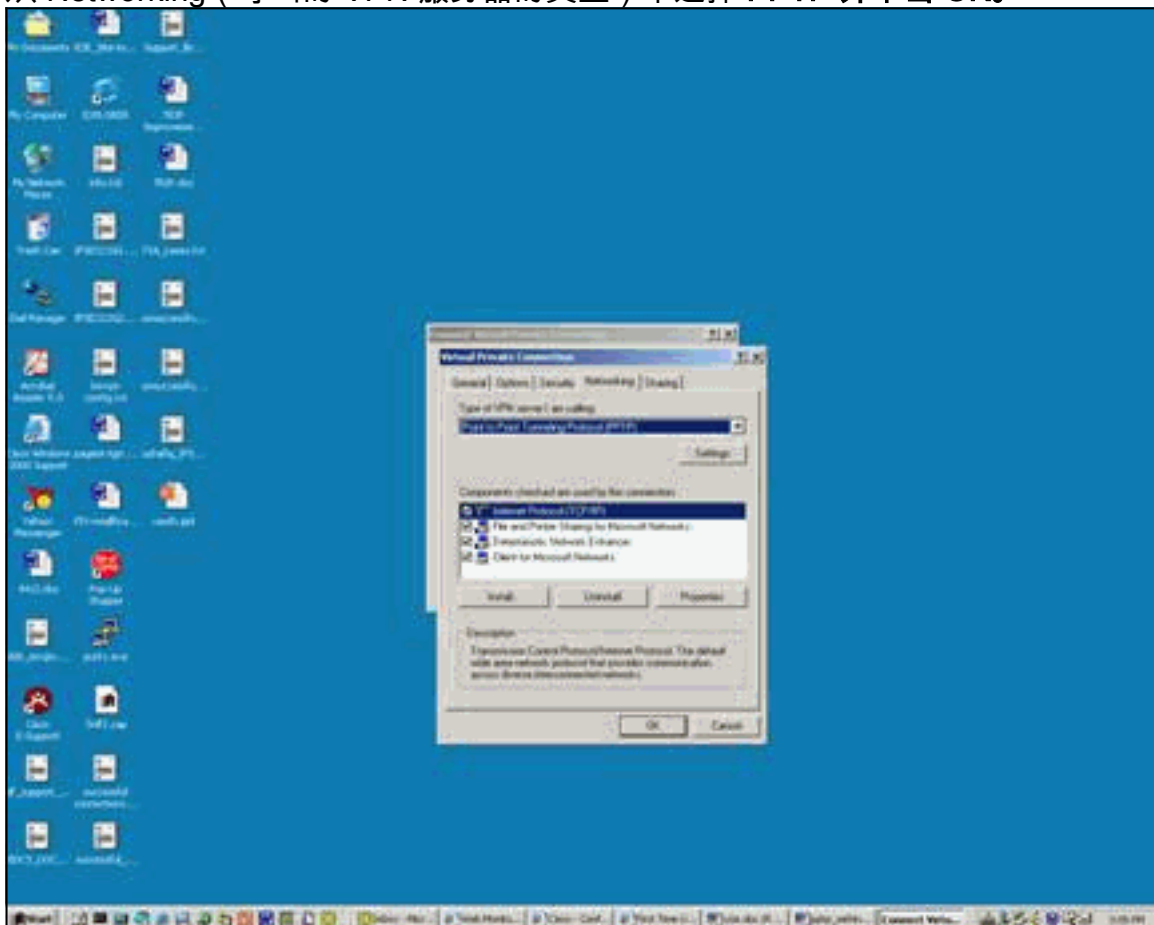


7. 选择 **Advanced (用户设置)**，然后选择 **Settings** 并选择适当的加密 (Data Encryption) 级别和身份验证 (允许这些协议)。

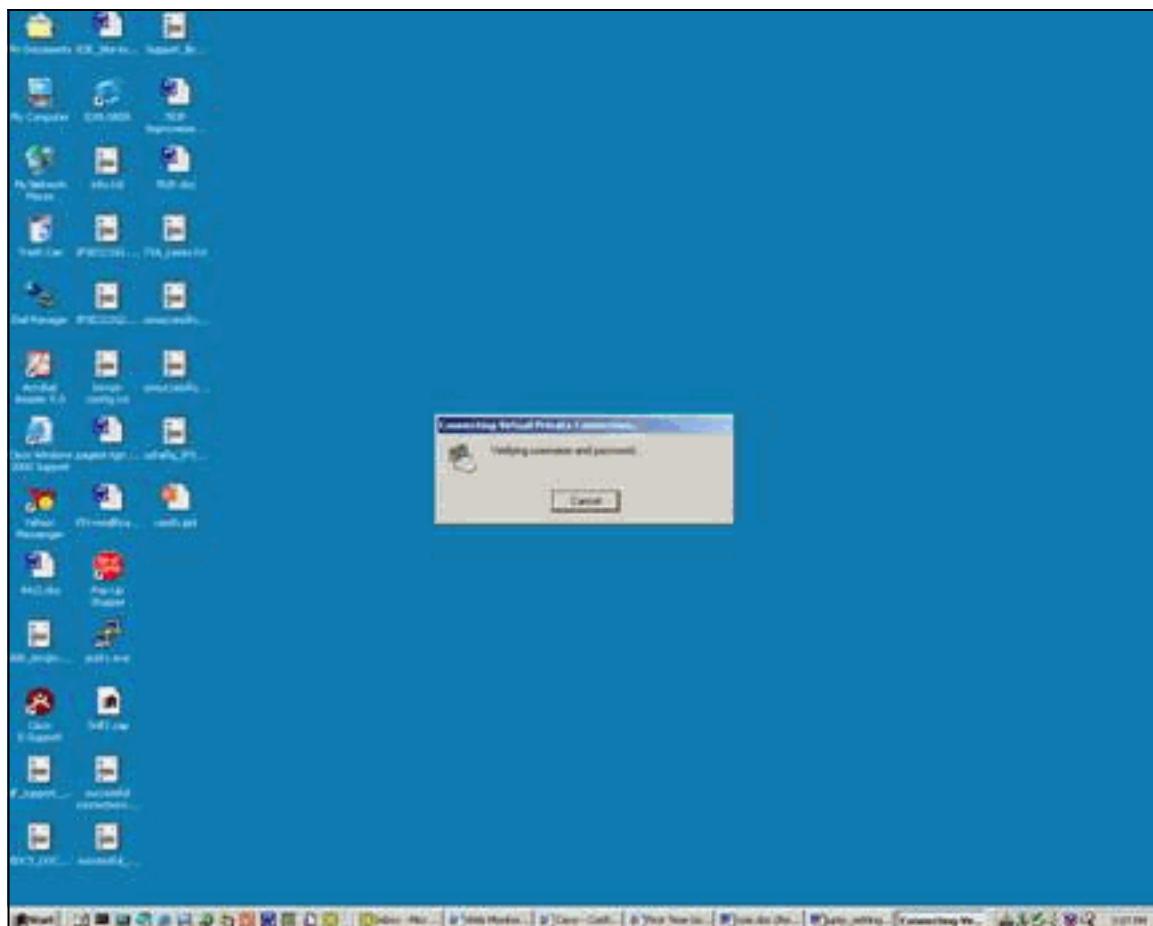




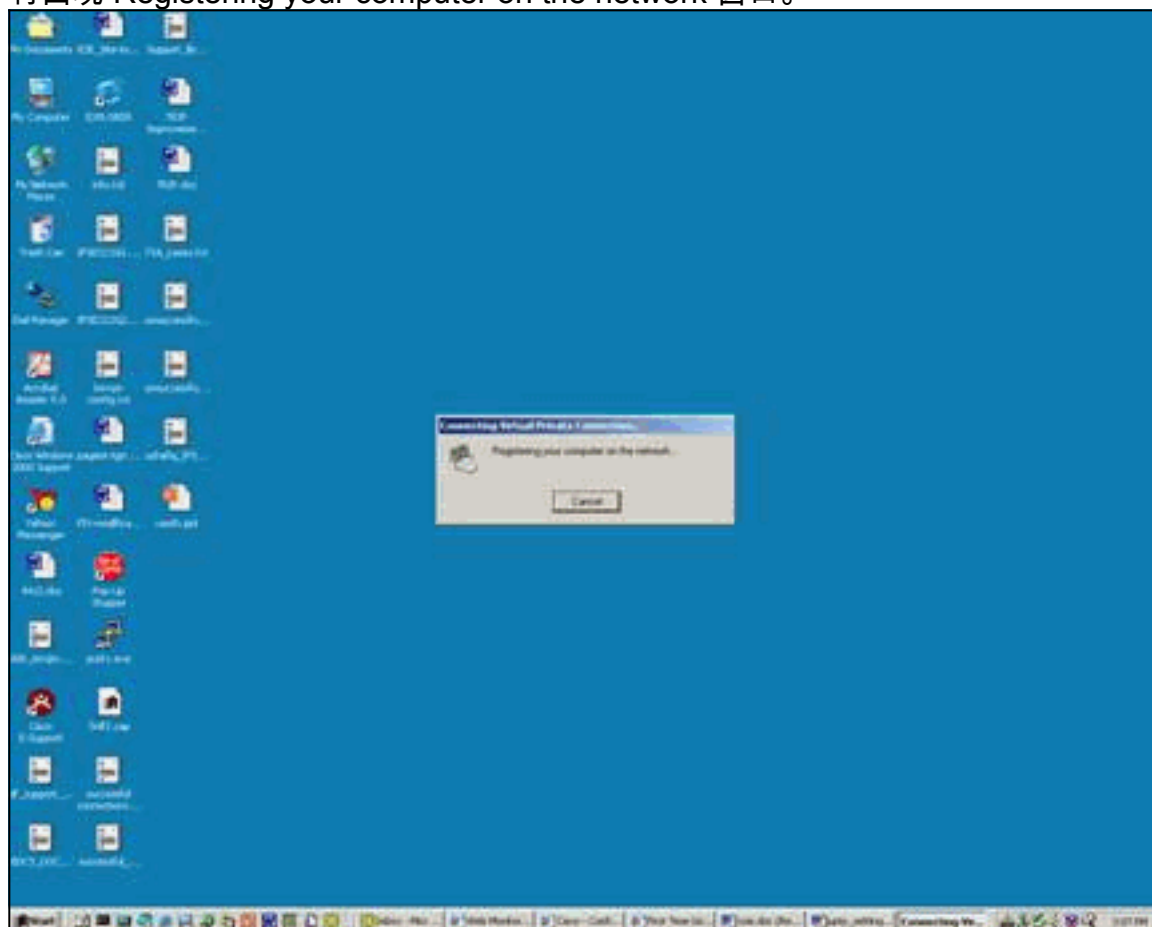
8. 从 Networking (呼叫的 VPN 服务器的类型) 中选择 PPTP 并单击 OK。



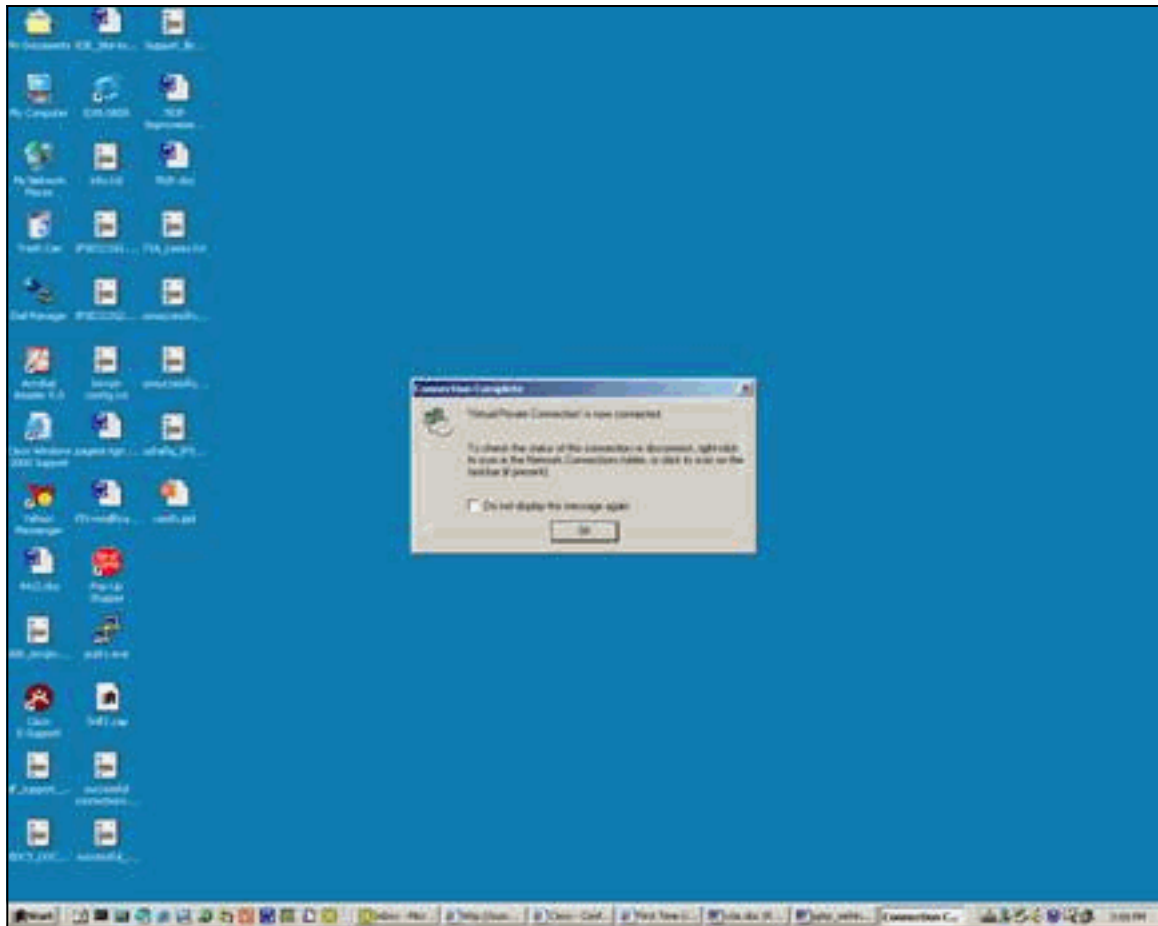
9. 将出现 Verifying username and password 窗口。



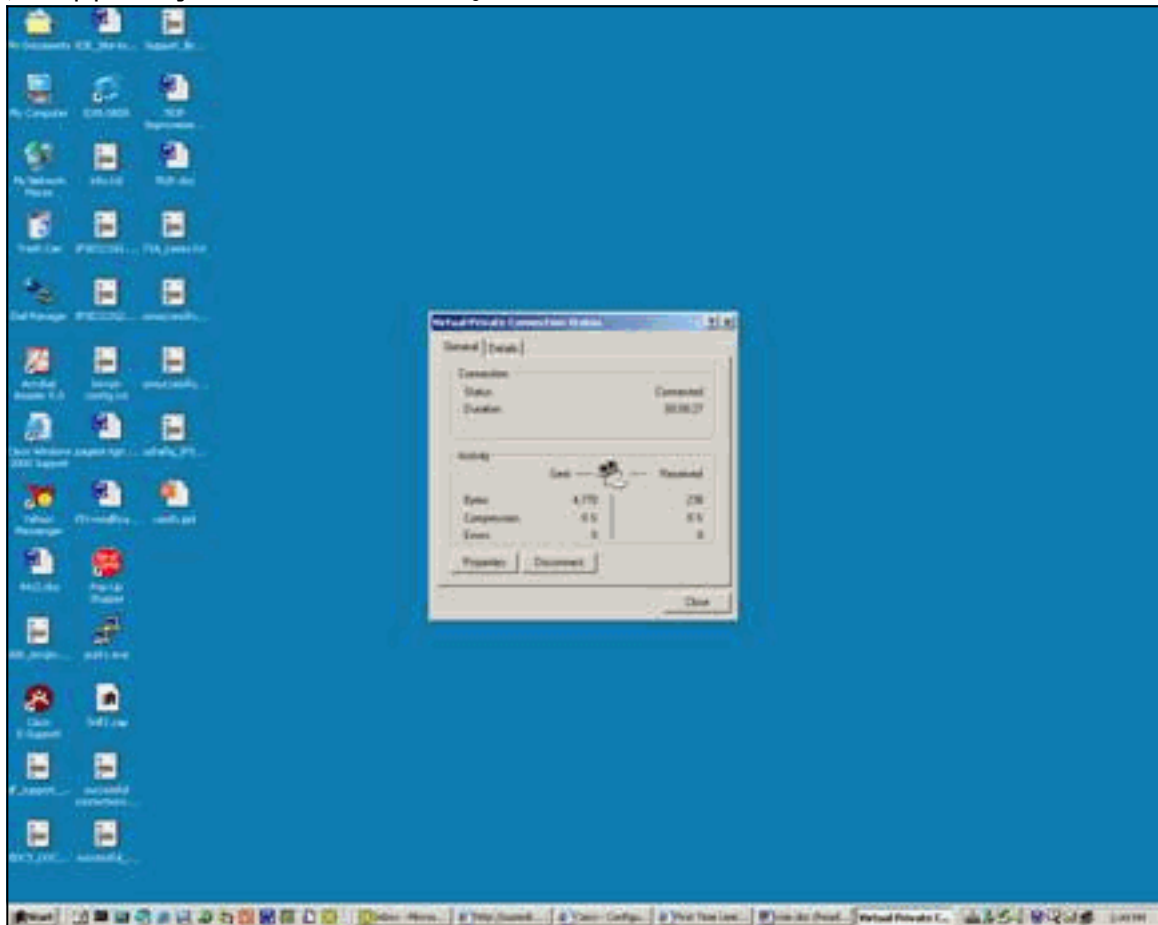
10. 将出现 Registering your computer on the network 窗口。

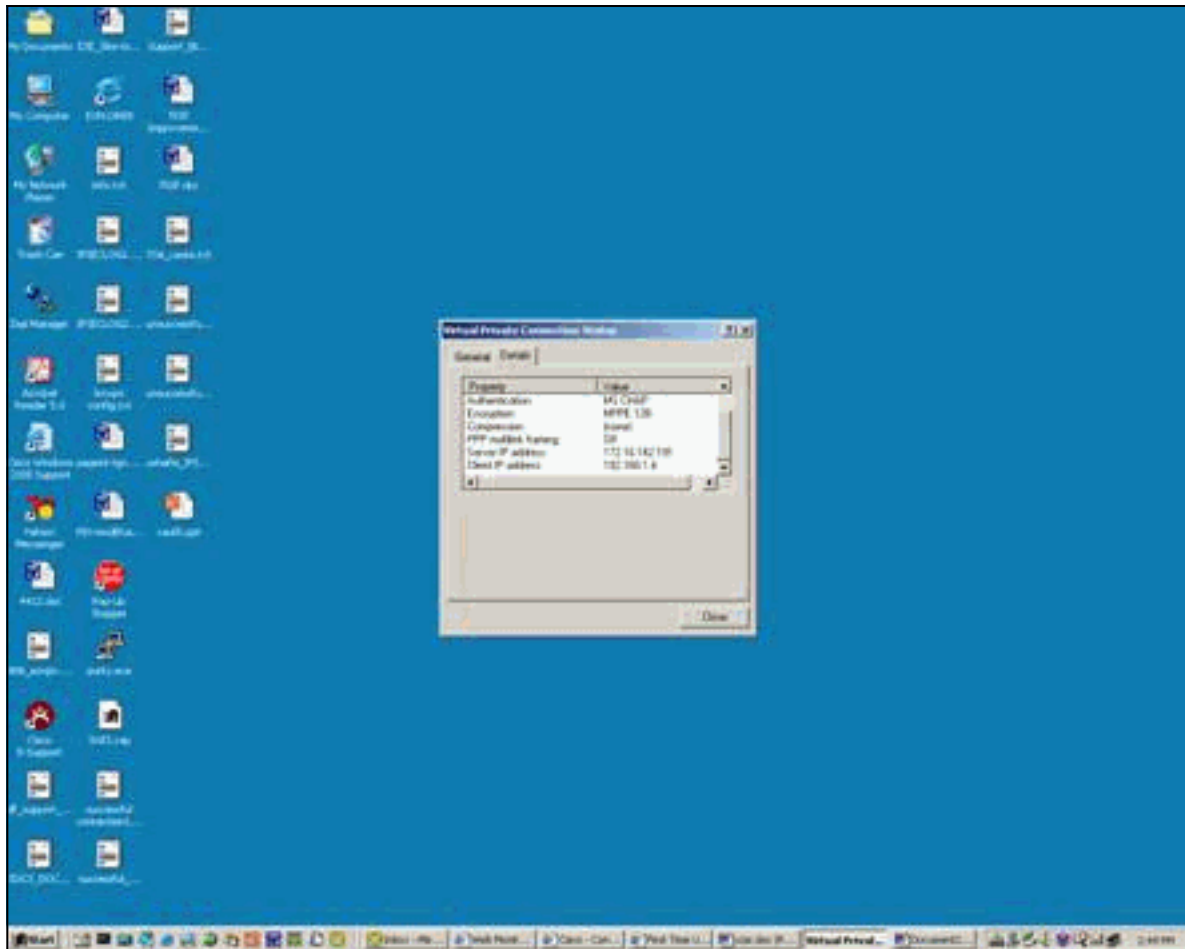


11. 将出现 Connections Properties 窗口。



12. 这些窗口显示 Connection Status。





验证

本部分提供的信息可用于确认您的配置是否正常运行。

[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 debug** — 显示当前为进行故障排除而启用的 debug 命令
- **show user** — 显示当前登录的用户及其状态
- **show ip route connected** — 显示路由表的当前状态
- **show vpdn** — 显示有关虚拟专用拨号网络 (VPDN) 中活动第 2 层隧道协议 (L2TP) 或第 2 层转发 (L2F) 协议隧道和消息标识符的信息

这是 **show debug** 命令的输出示例。

```
2621#show debug
PPP:
  PPP authentication debugging is on
  PPP protocol negotiation debugging is on
```

```
VPN:
  VPDN events debugging is on
```

这是已配置初始 PPTP 的 debug 输出。

```
2621#
```

*Mar 5 02:16:25.675: ppp2 PPP: Using vpn set call direction
*Mar 5 02:16:25.675: ppp2 PPP: Treating connection as a callin
*Mar 5 02:16:25.675: ppp2 PPP: Phase is ESTABLISHING, Passive Open
*Mar 5 02:16:25.675: ppp2 LCP: State is Listen
*Mar 5 02:16:27.663: ppp2 LCP: TIMEout: State Listen
*Mar 5 02:16:27.663: ppp2 PPP: Authorization required
*Mar 5 02:16:27.663: ppp2 LCP: O CONFREQ [Listen] id 1 len 14
*Mar 5 02:16:27.663: ppp2 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:16:27.663: ppp2 LCP: MagicNumber 0x1658CF62 (0x05061658CF62)
*Mar 5 02:16:27.667: ppp2 LCP: I CONFACK [REQsent] id 1 len 14
*Mar 5 02:16:27.667: ppp2 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:16:27.667: ppp2 LCP: MagicNumber 0x1658CF62 (0x05061658CF62)
*Mar 5 02:16:27.695: ppp2 LCP: I CONFREQ [ACKrcvd] id 1 len 44
*Mar 5 02:16:27.695: ppp2 LCP: MagicNumber 0x131A2427 (0x0506131A2427)
*Mar 5 02:16:27.695: ppp2 LCP: PFC (0x0702)
*Mar 5 02:16:27.695: ppp2 LCP: ACFC (0x0802)
*Mar 5 02:16:27.695: ppp2 LCP: Callback 6 (0x0D0306)
*Mar 5 02:16:27.695: ppp2 LCP: MRRU 1614 (0x1104064E)
*Mar 5 02:16:27.695: ppp2 LCP: EndpointDisc 1 Local
*Mar 5 02:16:27.699: ppp2 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:16:27.699: ppp2 LCP: (0x897EAE00000002)
*Mar 5 02:16:27.699: ppp2 LCP: O CONFREQ [ACKrcvd] id 1 len 11
*Mar 5 02:16:27.699: ppp2 LCP: Callback 6 (0x0D0306)
*Mar 5 02:16:27.699: ppp2 LCP: MRRU 1614 (0x1104064E)
*Mar 5 02:16:27.703: ppp2 LCP: I CONFREQ [ACKrcvd] id 2 len 37
*Mar 5 02:16:27.703: ppp2 LCP: MagicNumber 0x131A2427 (0x0506131A2427)
*Mar 5 02:16:27.703: ppp2 LCP: PFC (0x0702)
*Mar 5 02:16:27.707: ppp2 LCP: ACFC (0x0802)
*Mar 5 02:16:27.707: ppp2 LCP: EndpointDisc 1 Local
*Mar 5 02:16:27.707: ppp2 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:16:27.707: ppp2 LCP: (0x897EAE00000002)
*Mar 5 02:16:27.707: ppp2 LCP: O CONFACK [ACKrcvd] id 2 len 37
*Mar 5 02:16:27.707: ppp2 LCP: MagicNumber 0x131A2427 (0x0506131A2427)
*Mar 5 02:16:27.707: ppp2 LCP: PFC (0x0702)
*Mar 5 02:16:27.707: ppp2 LCP: ACFC (0x0802)
*Mar 5 02:16:27.711: ppp2 LCP: EndpointDisc 1 Local
*Mar 5 02:16:27.711: ppp2 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:16:27.711: ppp2 LCP: (0x897EAE00000002)
*Mar 5 02:16:27.711: ppp2 LCP: State is Open
***Mar 5 02:16:27.711: ppp2 PPP: Phase is AUTHENTICATING, by this end**
*Mar 5 02:16:27.715: ppp2 LCP: I IDENTIFY [Open] id 3 len 18 magic
0x131A2427 MSRASV5.00
*Mar 5 02:16:27.719: ppp2 LCP: I IDENTIFY [Open] id 4 len 28 magic
0x131A2427 MSRAS-1-USHAFIQ-W2K1
*Mar 5 02:16:27.719: ppp2 PAP: I AUTH-REQ id 1 len 19 from "cisco"
*Mar 5 02:16:27.719: ppp2 PAP: Authenticating peer cisco
*Mar 5 02:16:27.719: ppp2 PPP: Phase is FORWARDING, Attempting Forward
*Mar 5 02:16:27.719: ppp2 PPP: Phase is AUTHENTICATING, Unauthenticated User
*Mar 5 02:16:27.719: ppp2 PPP: Sent PAP LOGIN Request
*Mar 5 02:16:27.723: ppp2 PPP: Received LOGIN Response PASS
*Mar 5 02:16:27.723: ppp2 PPP: Phase is FORWARDING, Attempting Forward
*Mar 5 02:16:27.727: Vi4 PPP: Phase is DOWN, Setup
***Mar 5 02:16:27.727: Tnl/Sn3/3 PPTP: Virtual interface created for
bandwidth 10000 Kbps**
***Mar 5 02:16:27.731: Vi4 Tnl/Sn3/3 PPTP: VPDN session up**
*Mar 5 02:16:27.735: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to up
*Mar 5 02:16:27.735: Vi4 PPP: Phase is AUTHENTICATING, Authenticated User
*Mar 5 02:16:27.735: Vi4 PAP: O AUTH-ACK id 1 len 5
*Mar 5 02:16:27.739: Vi4 PPP: Phase is UP
*Mar 5 02:16:27.739: Vi4 IPCP: O CONFREQ [Closed] id 1 len 10
*Mar 5 02:16:27.739: Vi4 IPCP: Address 172.16.142.191 (0x0306AC108EBF)
*Mar 5 02:16:27.739: Vi4 CCP: O CONFREQ [Closed] id 1 len 4
*Mar 5 02:16:27.739: Vi4 PPP: Process pending packets
*Mar 5 02:16:27.747: Vi4 CCP: I CONFREQ [REQsent] id 5 len 10

```

*Mar 5 02:16:27.747: Vi4 CCP: MS-PPC supported bits 0x01000001 (0x120601000001)
*Mar 5 02:16:27.747: Vi4 CCP: O CONFNAK [REQsent] id 5 len 10
*Mar 5 02:16:27.751: Vi4 CCP: MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar 5 02:16:27.751: Vi4 CCP: I CONFACK [REQsent] id 1 len 4
*Mar 5 02:16:27.751: Vi4 IPCP: I CONFREQ [REQsent] id 6 len 34
*Mar 5 02:16:27.751: Vi4 IPCP: Address 0.0.0.0 (0x030600000000)
*Mar 5 02:16:27.751: Vi4 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar 5 02:16:27.751: Vi4 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar 5 02:16:27.755: Vi4 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar 5 02:16:27.755: Vi4 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar 5 02:16:27.755: Vi4 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0
*Mar 5 02:16:27.755: Vi4 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0
*Mar 5 02:16:27.755: Vi4 IPCP: Pool returned 192.168.1.4
*Mar 5 02:16:27.755: Vi4 IPCP: O CONFREJ [REQsent] id 6 len 28
*Mar 5 02:16:27.759: Vi4 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar 5 02:16:27.759: Vi4 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar 5 02:16:27.759: Vi4 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar 5 02:16:27.759: Vi4 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar 5 02:16:27.759: Vi4 IPCP: I CONFACK [REQsent] id 1 len 10
*Mar 5 02:16:27.759: Vi4 IPCP: Address 172.16.142.191 (0x0306AC108EBF)
*Mar 5 02:16:27.763: Vi4 CCP: I CONFREQ [ACKrcvd] id 7 len 4
*Mar 5 02:16:27.767: Vi4 CCP: O CONFACK [ACKrcvd] id 7 len 4
*Mar 5 02:16:27.767: Vi4 CCP: State is Open
*Mar 5 02:16:27.767: Vi4 CCP: Compression not negotiated
*Mar 5 02:16:27.767: Vi4 CCP: Decompression not negotiated
*Mar 5 02:16:27.767: Vi4 CCP: Negotiation mismatch, closing CCP
*Mar 5 02:16:27.767: Vi4 CCP: O TERMREQ [Open] id 2 len 4
*Mar 5 02:16:27.767: Vi4 IPCP: I CONFREQ [ACKrcvd] id 8 len 10
*Mar 5 02:16:27.767: Vi4 IPCP: Address 0.0.0.0 (0x030600000000)
*Mar 5 02:16:27.771: Vi4 IPCP: O CONFNAK [ACKrcvd] id 8 len 10
*Mar 5 02:16:27.771: Vi4 IPCP: Address 192.168.1.4 (0x0306C0A80104)
*Mar 5 02:16:27.775: Vi4 CCP: I TERMACK [TERMsent] id 2 len 4
*Mar 5 02:16:27.775: Vi4 CCP: State is Closed
*Mar 5 02:16:27.775: Vi4 IPCP: I CONFREQ [ACKrcvd] id 9 len 10
*Mar 5 02:16:27.775: Vi4 IPCP: Address 192.168.1.4 (0x0306C0A80104)
*Mar 5 02:16:27.775: Vi4 IPCP: O CONFACK [ACKrcvd] id 9 len 10
*Mar 5 02:16:27.779: Vi4 IPCP: Address 192.168.1.4 (0x0306C0A80104)
*Mar 5 02:16:27.779: Vi4 IPCP: State is Open
*Mar 5 02:16:27.783: Vi4 IPCP: Install route to 192.168.1.4
*Mar 5 02:16:27.783: Vi4 IPCP: Add link info for cef entry 192.168.1.4
*Mar 5 02:16:28.735: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Virtual-Access4, changed state to up
*Mar 5 02:16:37.743: Vi4 CCP: O CONFREQ [Closed] id 3 len 4
2621#
2621#

```

这是包含必需 MPPE 和 MS-CHAP 配置的 debug 输出。

```

2621#
*Mar 5 02:25:01.815: ppp4 PPP: Using vpn set call direction
*Mar 5 02:25:01.815: ppp4 PPP: Treating connection as a callin
*Mar 5 02:25:01.815: ppp4 PPP: Phase is ESTABLISHING, Passive Open
*Mar 5 02:25:01.815: ppp4 LCP: State is Listen
*Mar 5 02:25:03.823: ppp4 LCP: TIMEOUT: State Listen
*Mar 5 02:25:03.823: ppp4 PPP: Authorization required
*Mar 5 02:25:03.823: ppp4 LCP: O CONFREQ [Listen] id 1 len 15
*Mar 5 02:25:03.823: ppp4 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:25:03.823: ppp4 LCP: MagicNumber 0x1660AFA4 (0x05061660AFA4)
*Mar 5 02:25:03.843: ppp4 LCP: I CONFACK [REQsent] id 1 len 15
*Mar 5 02:25:03.843: ppp4 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:25:03.843: ppp4 LCP: MagicNumber 0x1660AFA4 (0x05061660AFA4)
*Mar 5 02:25:03.843: ppp4 LCP: I CONFREQ [ACKrcvd] id 1 len 44
*Mar 5 02:25:03.843: ppp4 LCP: MagicNumber 0x4B5A2A81 (0x05064B5A2A81)

```

```
*Mar 5 02:25:03.843: ppp4 LCP: PFC (0x0702)
*Mar 5 02:25:03.847: ppp4 LCP: ACFC (0x0802)
*Mar 5 02:25:03.847: ppp4 LCP: Callback 6 (0x0D0306)
*Mar 5 02:25:03.847: ppp4 LCP: MRRU 1614 (0x1104064E)
*Mar 5 02:25:03.847: ppp4 LCP: EndpointDisc 1 Local
*Mar 5 02:25:03.847: ppp4 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:25:03.847: ppp4 LCP: (0x897EAE00000004)
*Mar 5 02:25:03.847: ppp4 LCP: O CONFREJ [ACKrcvd] id 1 len 11
*Mar 5 02:25:03.847: ppp4 LCP: Callback 6 (0x0D0306)
*Mar 5 02:25:03.851: ppp4 LCP: MRRU 1614 (0x1104064E)
*Mar 5 02:25:03.851: ppp4 LCP: I CONFREQ [ACKrcvd] id 2 len 37
*Mar 5 02:25:03.855: ppp4 LCP: MagicNumber 0x4B5A2A81 (0x05064B5A2A81)
*Mar 5 02:25:03.855: ppp4 LCP: PFC (0x0702)
*Mar 5 02:25:03.855: ppp4 LCP: ACFC (0x0802)
*Mar 5 02:25:03.855: ppp4 LCP: EndpointDisc 1 Local
*Mar 5 02:25:03.855: ppp4 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:25:03.855: ppp4 LCP: (0x897EAE00000004)
*Mar 5 02:25:03.855: ppp4 LCP: O CONFACK [ACKrcvd] id 2 len 37
*Mar 5 02:25:03.859: ppp4 LCP: MagicNumber 0x4B5A2A81 (0x05064B5A2A81)
*Mar 5 02:25:03.859: ppp4 LCP: PFC (0x0702)
*Mar 5 02:25:03.859: ppp4 LCP: ACFC (0x0802)
*Mar 5 02:25:03.859: ppp4 LCP: EndpointDisc 1 Local
*Mar 5 02:25:03.859: ppp4 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:25:03.859: ppp4 LCP: (0x897EAE00000004)
*Mar 5 02:25:03.859: ppp4 LCP: State is Open
*Mar 5 02:25:03.859: ppp4 PPP: Phase is AUTHENTICATING, by this end
*Mar 5 02:25:03.863: ppp4 MS-CHAP: O CHALLENGE id 1 len 21 from "2621 "
*Mar 5 02:25:03.867: ppp4 LCP: I IDENTIFY [Open] id 3 len 18 magic 0x4B5A2A81
MSRASV5.00
*Mar 5 02:25:03.867: ppp4 LCP: I IDENTIFY [Open] id 4 len 28 magic 0x4B5A2A81
MSRAS-1-USHAFIQ-W2K1
*Mar 5 02:25:03.867: ppp4 MS-CHAP: I RESPONSE id 1 len 59 from "cisco"
*Mar 5 02:25:03.867: ppp4 PPP: Phase is FORWARDING, Attempting Forward
*Mar 5 02:25:03.871: ppp4 PPP: Phase is AUTHENTICATING, Unauthenticated User
*Mar 5 02:25:03.871: ppp4 PPP: Sent MSCHAP LOGIN Request
*Mar 5 02:25:03.963: ppp4 PPP: Received LOGIN Response PASS
*Mar 5 02:25:03.963: ppp4 PPP: Phase is FORWARDING, Attempting Forward
*Mar 5 02:25:03.975: Vi4 PPP: Phase is DOWN, Setup
*Mar 5 02:25:03.975: Tn1/Sn5/5 PPTP: Virtual interface created for
bandwidth 100000 Kbps
*Mar 5 02:25:03.979: Vi4 Tn1/Sn5/5 PPTP: VPDN session up
*Mar 5 02:25:03.983: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to up
*Mar 5 02:25:03.983: Vi4 PPP: Phase is AUTHENTICATING, Authenticated User
*Mar 5 02:25:03.983: Vi4 MS-CHAP: O SUCCESS id 1 len 4
*Mar 5 02:25:03.987: Vi4 PPP: Phase is UP
*Mar 5 02:25:03.987: Vi4 IPCP: O CONFREQ [Closed] id 1 len 10
*Mar 5 02:25:03.987: Vi4 IPCP: Address 172.16.142.191 (0x0306AC108EBF)
*Mar 5 02:25:03.987: Vi4 CCP: O CONFREQ [Closed] id 1 len 10
*Mar 5 02:25:03.987: Vi4 CCP: MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar 5 02:25:03.987: Vi4 PPP: Process pending packets
*Mar 5 02:25:03.995: Vi4 CCP: I CONFREQ [REQsent] id 5 len 10
*Mar 5 02:25:03.995: Vi4 CCP: MS-PPC supported bits 0x01000001 (0x120601000001)
*Mar 5 02:25:03.999: Vi4 CCP: O CONFNAK [REQsent] id 5 len 10
*Mar 5 02:25:03.999: Vi4 CCP: MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar 5 02:25:03.999: Vi4 CCP: I CONFNAK [REQsent] id 1 len 10
*Mar 5 02:25:03.999: Vi4 CCP: MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar 5 02:25:03.999: Vi4 CCP: O CONFREQ [REQsent] id 2 len 10
*Mar 5 02:25:03.999: Vi4 CCP: MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar 5 02:25:04.003: Vi4 IPCP: I CONFREQ [REQsent] id 6 len 34
*Mar 5 02:25:04.003: Vi4 IPCP: Address 0.0.0.0 (0x030600000000)
*Mar 5 02:25:04.003: Vi4 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar 5 02:25:04.003: Vi4 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar 5 02:25:04.003: Vi4 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar 5 02:25:04.003: Vi4 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
```

```

*Mar 5 02:25:04.003: Vi4 AAA/AUTHOR/PCP: Start. Her address 0.0.0.0, we want 0.0.0.0
*Mar 5 02:25:04.007: Vi4 AAA/AUTHOR/PCP: Done. Her address 0.0.0.0, we want 0.0.0.0
*Mar 5 02:25:04.007: Vi4 IPCP: Pool returned 192.168.1.4
*Mar 5 02:25:04.007: Vi4 IPCP: O CONFREQ [REQsent] id 6 len 28
*Mar 5 02:25:04.007: Vi4 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar 5 02:25:04.007: Vi4 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar 5 02:25:04.007: Vi4 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar 5 02:25:04.011: Vi4 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar 5 02:25:04.011: Vi4 IPCP: I CONFACK [REQsent] id 1 len 10
*Mar 5 02:25:04.011: Vi4 IPCP: Address 172.16.142.191 (0x0306AC108EBF)
*Mar 5 02:25:04.015: Vi4 CCP: I CONFREQ [REQsent] id 7 len 10
*Mar 5 02:25:04.015: Vi4 CCP: MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar 5 02:25:04.015: Vi4 CCP: O CONFACK [REQsent] id 7 len 10
*Mar 5 02:25:04.015: Vi4 CCP: MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar 5 02:25:04.019: Vi4 CCP: I CONFACK [ACKsent] id 2 len 10
*Mar 5 02:25:04.019: Vi4 CCP: MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar 5 02:25:04.019: Vi4 CCP: State is Open
*Mar 5 02:25:04.023: Vi4 IPCP: I CONFREQ [ACKrcvd] id 8 len 10
*Mar 5 02:25:04.027: Vi4 IPCP: Address 0.0.0.0 (0x030600000000)
*Mar 5 02:25:04.027: Vi4 IPCP: O CONFNAK [ACKrcvd] id 8 len 10
*Mar 5 02:25:04.027: Vi4 IPCP: Address 192.168.1.4 (0x0306C0A80104)
*Mar 5 02:25:04.031: Vi4 IPCP: I CONFREQ [ACKrcvd] id 9 len 10
*Mar 5 02:25:04.031: Vi4 IPCP: Address 192.168.1.4 (0x0306C0A80104)
*Mar 5 02:25:04.031: Vi4 IPCP: O CONFACK [ACKrcvd] id 9 len 10
*Mar 5 02:25:04.031: Vi4 IPCP: Address 192.168.1.4 (0x0306C0A80104)
*Mar 5 02:25:04.031: Vi4 IPCP: State is Open
*Mar 5 02:25:04.035: Vi4 IPCP: Install route to 192.168.1.4
*Mar 5 02:25:04.035: Vi4 IPCP: Add link info for cef entry 192.168.1.4
*Mar 5 02:25:04.983: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Virtual-Access4, changed state to up

```

这是 MS-CHAP 和 MPPE 启用前的 **show user** 输出。

```
2621#show user
```

Line	User	Host(s)	Idle	Location
* 0 con 0		idle	00:00:00	

Interface	User	Mode	Idle	Peer Address
Vi4	cisco	PPPoVPDN	00:00:01	192.168.1.4

这是 MS-CHAP 和 MPPE 启用后的 **show user** 输出。

```
2621#show user
```

Line	User	Host(s)	Idle	Location
* 0 con 0		idle	00:00:00	

Interface	User	Mode	Idle	Peer Address
Vi4	cisco	PPPoVPDN	00:00:00	192.168.1.4

这是 MS-CHAP 和 MPPE 启用前的 **show ip route connected** 输出。

```
2621#show ip route connected
```

```

172.16.0.0/24 is subnetted, 1 subnets
C    172.16.142.0 is directly connected, FastEthernet0/0
10.0.0.0/24 is subnetted, 1 subnets
C    10.100.100.0 is directly connected, Loopback0
192.168.1.0/32 is subnetted, 1 subnets
C    192.168.1.4 is directly connected, Virtual-Access4

```

这是 MS-CHAP 和 MPPE 启用前的 **show vpdn** 输出。


```
2621#show vpdn
```

```
%No active L2TP tunnels
```

```
%No active L2F tunnels
```

```
PPTP Tunnel and Session Information Total tunnels 1 sessions 1
```

LocID	Remote Name	State	Remote Address	Port	Sessions	VPDN Group
3		estabd	171.69.89.81	4737	1	1

LocID	RemID	TunID	Intf	Username	State	Last Chg	Uniq ID
3	32768	3	Vi4	cisco	estabd	00:01:44	2

```
%No active PPPoE tunnels
```

这是 MS-CHAP 和 MPPE 启用后的 show vpdn 输出。

```
2621#show vpdn
```

```
%No active L2TP tunnels
```

```
%No active L2F tunnels
```

```
PPTP Tunnel and Session Information Total tunnels 1 sessions 1
```

LocID	Remote Name	State	Remote Address	Port	Sessions	VPDN Group
5		estabd	171.69.89.81	4893	1	1

LocID	RemID	TunID	Intf	Username	State	Last Chg	Uniq ID
5	0	5	Vi4	cisco	estabd	00:00:37	4

```
%No active PPPoE tunnels
```

故障排除

本部分提供的信息可用于对配置进行故障排除。

故障排除命令

[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。

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

- **clear vpdn tunnel pptp** — 用于关闭指定的隧道和该隧道内的所有会话，并清除指定的 PPTP 隧道

```
2621#clear vpdn tunnel pptp ip remote 171.69.89.81
```

```
Starting to clear the tunnel
```

```
2621#
```

```
*Mar 5 02:27:35.611: Vi4 PPP: Sending Acct Event[Down] id[5]
```

```
*Mar 5 02:27:35.611: Vi4 VPDN: Reseting interface
```

```
*Mar 5 02:27:35.611: Vi4 PPP: Block vaccess from being freed [0x1D]
```

```
*Mar 5 02:27:35.619: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to down
```

```
*Mar 5 02:27:35.619: Vi4 CCP: State is Closed
```

```
*Mar 5 02:27:35.623: Vi4 MPPE: Required encryption not negotiated
```

```

*Mar 5 02:27:35.623: Vi4 IPCP: Remove link info for cef entry 192.168.1.4
*Mar 5 02:27:35.623: Vi4 PPP: Unlocked by [0x4] Still Locked by [0x1B]
*Mar 5 02:27:35.623: Vi4 PPP: Unlocked by [0x10] Still Locked by [0xB]
*Mar 5 02:27:35.623: Vi4 PPP: Phase is TERMINATING
*Mar 5 02:27:35.627: Vi4 LCP: O TERMREQ [Open] id 2 len 4
*Mar 5 02:27:35.627: Vi4 IPCP: State is Closed
*Mar 5 02:27:35.627: Vi4 PPP: Unlocked by [0x8] Still Locked by [0x3]
*Mar 5 02:27:35.627: Vi4 LCP: State is Closed
*Mar 5 02:27:35.627: Vi4 PPP: Phase is DOWN
*Mar 5 02:27:35.627: Vi4 PPP: Unlocked by [0x2] Still Locked by [0x1]
*Mar 5 02:27:35.639: Vi4 IPCP: Remove route to 192.168.1.4
*Mar 5 02:27:35.639: Vi4 PPP: Unlocked by [0x1] Still Locked by [0x0]
*Mar 5 02:27:35.639: Vi4 PPP: Free previously blocked vaccess
*Mar 5 02:27:36.619: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Virtual-Access4, changed state to down

```

Encryption Mismatch — VPN 客户端配置 40 位加密时，配置 128 强加密的路由器的 Debug 输出。

2621#

2621#

```

*Mar 5 02:29:36.339: ppp5 PPP: Using vpn set call direction
*Mar 5 02:29:36.339: ppp5 PPP: Treating connection as a callin
*Mar 5 02:29:36.339: ppp5 PPP: Phase is ESTABLISHING, Passive Open
*Mar 5 02:29:36.343: ppp5 LCP: State is Listen
*Mar 5 02:29:38.351: ppp5 LCP: TIMEout: State Listen
*Mar 5 02:29:38.351: ppp5 PPP: Authorization required
*Mar 5 02:29:38.351: ppp5 LCP: O CONFREQ [Listen] id 1 len 15
*Mar 5 02:29:38.351: ppp5 LCP:   AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:29:38.351: ppp5 LCP:   MagicNumber 0x1664E006 (0x05061664E006)
*Mar 5 02:29:38.359: ppp5 LCP: I CONFACK [REQsent] id 1 len 15
*Mar 5 02:29:38.359: ppp5 LCP:   AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:29:38.359: ppp5 LCP:   MagicNumber 0x1664E006 (0x05061664E006)
*Mar 5 02:29:38.359: ppp5 LCP: I CONFREQ [ACKrcvd] id 1 len 44
*Mar 5 02:29:38.359: ppp5 LCP:   MagicNumber 0x793D5ED8 (0x0506793D5ED8)
*Mar 5 02:29:38.363: ppp5 LCP:   PFC (0x0702)
*Mar 5 02:29:38.363: ppp5 LCP:   ACFC (0x0802)
*Mar 5 02:29:38.363: ppp5 LCP:   Callback 6 (0x0D0306)
*Mar 5 02:29:38.363: ppp5 LCP:   MRRU 1614 (0x1104064E)
*Mar 5 02:29:38.363: ppp5 LCP:   EndpointDisc 1 Local
*Mar 5 02:29:38.363: ppp5 LCP:   (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:29:38.363: ppp5 LCP:   (0x897EAE00000005)
*Mar 5 02:29:38.363: ppp5 LCP: O CONFREQ [ACKrcvd] id 1 len 11
*Mar 5 02:29:38.367: ppp5 LCP:   Callback 6 (0x0D0306)
*Mar 5 02:29:38.367: ppp5 LCP:   MRRU 1614 (0x1104064E)
*Mar 5 02:29:38.367: ppp5 LCP: I CONFREQ [ACKrcvd] id 2 len 37
*Mar 5 02:29:38.371: ppp5 LCP:   MagicNumber 0x793D5ED8 (0x0506793D5ED8)
*Mar 5 02:29:38.371: ppp5 LCP:   PFC (0x0702)
*Mar 5 02:29:38.371: ppp5 LCP:   ACFC (0x0802)
*Mar 5 02:29:38.371: ppp5 LCP:   EndpointDisc 1 Local
*Mar 5 02:29:38.371: ppp5 LCP:   (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:29:38.371: ppp5 LCP:   (0x897EAE00000005)
*Mar 5 02:29:38.371: ppp5 LCP: O CONFACK [ACKrcvd] id 2 len 37
*Mar 5 02:29:38.375: ppp5 LCP:   MagicNumber 0x793D5ED8 (0x0506793D5ED8)
*Mar 5 02:29:38.375: ppp5 LCP:   PFC (0x0702)
*Mar 5 02:29:38.375: ppp5 LCP:   ACFC (0x0802)
*Mar 5 02:29:38.375: ppp5 LCP:   EndpointDisc 1 Local
*Mar 5 02:29:38.375: ppp5 LCP:   (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:29:38.375: ppp5 LCP:   (0x897EAE00000005)
*Mar 5 02:29:38.375: ppp5 LCP: State is Open
*Mar 5 02:29:38.375: ppp5 PPP: Phase is AUTHENTICATING, by this end
*Mar 5 02:29:38.379: ppp5 MS-CHAP: O CHALLENGE id 1 len 21 from "2621"
*Mar 5 02:29:38.383: ppp5 LCP: I IDENTIFY [Open] id 3 len 18 magic
0x793D5ED8 MSRASV5.00

```

```

*Mar 5 02:29:38.383: ppp5 LCP: I IDENTIFY [Open] id 4 len 28 magic
                        0x793D5ED8 MSRAS-1-USHAFIQ-W2K1
*Mar 5 02:29:38.383: ppp5 MS-CHAP: I RESPONSE id 1 len 59 from "cisco"
*Mar 5 02:29:38.383: ppp5 PPP: Phase is FORWARDING, Attempting Forward
*Mar 5 02:29:38.387: ppp5 PPP: Phase is AUTHENTICATING, Unauthenticated User
*Mar 5 02:29:38.387: ppp5 PPP: Sent MSCHAP LOGIN Request
*Mar 5 02:29:38.475: ppp5 PPP: Received LOGIN Response PASS
*Mar 5 02:29:38.479: ppp5 PPP: Phase is FORWARDING, Attempting Forward
*Mar 5 02:29:38.483: Vi4 PPP: Phase is DOWN, Setup
*Mar 5 02:29:38.483: Tn1/Sn6/6 PPTP: Virtual interface created for
                        bandwidth 100000 Kbps
*Mar 5 02:29:38.483: Vi4 Tn1/Sn6/6 PPTP: VPDN session up
*Mar 5 02:29:38.487: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to up
*Mar 5 02:29:38.487: Vi4 PPP: Phase is AUTHENTICATING, Authenticated User
*Mar 5 02:29:38.487: Vi4 MS-CHAP: O SUCCESS id 1 len 4
*Mar 5 02:29:38.491: Vi4 PPP: Phase is UP
*Mar 5 02:29:38.491: Vi4 IPCP: O CONFREQ [Closed] id 1 len 10
*Mar 5 02:29:38.491: Vi4 IPCP: Address 172.16.142.191 (0x0306AC108EBF)
*Mar 5 02:29:38.491: Vi4 CCP: O CONFREQ [Closed] id 1 len 10
*Mar 5 02:29:38.491: Vi4 CCP: MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar 5 02:29:38.491: Vi4 PPP: Process pending packets
*Mar 5 02:29:38.499: Vi4 CCP: I CONFREQ [REQsent] id 5 len 10
*Mar 5 02:29:38.503: Vi4 CCP: MS-PPC supported bits 0x01000001 (0x120601000001)
*Mar 5 02:29:38.503: Vi4 CCP: O CONFNAK [REQsent] id 5 len 10
*Mar 5 02:29:38.503: Vi4 CCP: MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar 5 02:29:38.503: Vi4 CCP: I CONFREQ [REQsent] id 1 len 10
*Mar 5 02:29:38.503: Vi4 CCP: MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar 5 02:29:38.503: Vi4 MPPE: Required encryption not negotiated
*Mar 5 02:29:38.503: Vi4 PPP: Sending Acct Event[Down] id[6]
*Mar 5 02:29:38.507: Vi4 CCP: State is Closed
*Mar 5 02:29:38.507: Vi4 MPPE: Required encryption not negotiated
*Mar 5 02:29:38.507: Vi4 PPP: Phase is TERMINATING
*Mar 5 02:29:38.507: Vi4 LCP: O TERMREQ [Open] id 2 len 4
*Mar 5 02:29:38.507: Vi4 IPCP: State is Closed
*Mar 5 02:29:38.507: Vi4 LCP: State is Closed
*Mar 5 02:29:38.511: Vi4 PPP: Phase is DOWN
*Mar 5 02:29:38.511: Vi4 VPDN: Resetting interface
*Mar 5 02:29:38.515: Vi4 PPP: Phase is ESTABLISHING, Passive Open
*Mar 5 02:29:38.515: Vi4 LCP: State is Listen
*Mar 5 02:29:38.515: Vi4 CCP: O CONFREQ [Closed] id 2 len 4
*Mar 5 02:29:38.519: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to down
*Mar 5 02:29:38.519: Vi4 LCP: State is Closed
*Mar 5 02:29:38.519: Vi4 PPP: Phase is DOWN

```

Authentication Mismatch — 配置 MS-CHAP 的路由器和配置 PAP 的 VPN 客户端的 Debug 输出。

```

*Mar 5 02:30:46.555: ppp6 PPP: Using vpn set call direction
*Mar 5 02:30:46.559: ppp6 PPP: Treating connection as a callin
*Mar 5 02:30:46.559: ppp6 PPP: Phase is ESTABLISHING, Passive Open
*Mar 5 02:30:46.559: ppp6 LCP: State is Listen
*Mar 5 02:30:48.559: ppp6 LCP: TIMEout: State Listen
*Mar 5 02:30:48.559: ppp6 PPP: Authorization required
*Mar 5 02:30:48.559: ppp6 LCP: O CONFREQ [Listen] id 1 len 15
*Mar 5 02:30:48.559: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.559: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.575: ppp6 LCP: I CONFNAK [REQsent] id 1 len 8
*Mar 5 02:30:48.575: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.575: ppp6 LCP: O CONFREQ [REQsent] id 2 len 15
*Mar 5 02:30:48.575: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.575: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.579: ppp6 LCP: I CONFREQ [REQsent] id 1 len 44
*Mar 5 02:30:48.579: ppp6 LCP: MagicNumber 0x78FD271D (0x050678FD271D)
*Mar 5 02:30:48.579: ppp6 LCP: PFC (0x0702)

```

*Mar 5 02:30:48.579: ppp6 LCP: ACFC (0x0802)
*Mar 5 02:30:48.579: ppp6 LCP: Callback 6 (0x0D0306)
*Mar 5 02:30:48.579: ppp6 LCP: MRRU 1614 (0x1104064E)
*Mar 5 02:30:48.579: ppp6 LCP: EndpointDisc 1 Local
*Mar 5 02:30:48.583: ppp6 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:30:48.583: ppp6 LCP: (0x897EAE00000006)
*Mar 5 02:30:48.583: ppp6 LCP: O CONFREJ [REQsent] id 1 len 11
*Mar 5 02:30:48.583: ppp6 LCP: Callback 6 (0x0D0306)
*Mar 5 02:30:48.583: ppp6 LCP: MRRU 1614 (0x1104064E)
*Mar 5 02:30:48.587: ppp6 LCP: I CONFNAK [REQsent] id 2 len 8
*Mar 5 02:30:48.587: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.587: ppp6 LCP: O CONFREQ [REQsent] id 3 len 15
*Mar 5 02:30:48.587: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.587: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.591: ppp6 LCP: I CONFREQ [REQsent] id 2 len 37
*Mar 5 02:30:48.591: ppp6 LCP: MagicNumber 0x78FD271D (0x050678FD271D)
*Mar 5 02:30:48.591: ppp6 LCP: PFC (0x0702)
*Mar 5 02:30:48.591: ppp6 LCP: ACFC (0x0802)
*Mar 5 02:30:48.591: ppp6 LCP: EndpointDisc 1 Local
*Mar 5 02:30:48.591: ppp6 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:30:48.595: ppp6 LCP: (0x897EAE00000006)
*Mar 5 02:30:48.595: ppp6 LCP: O CONFACK [REQsent] id 2 len 37
*Mar 5 02:30:48.595: ppp6 LCP: MagicNumber 0x78FD271D (0x050678FD271D)
*Mar 5 02:30:48.595: ppp6 LCP: PFC (0x0702)
*Mar 5 02:30:48.595: ppp6 LCP: ACFC (0x0802)
*Mar 5 02:30:48.595: ppp6 LCP: EndpointDisc 1 Local
*Mar 5 02:30:48.595: ppp6 LCP: (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar 5 02:30:48.595: ppp6 LCP: (0x897EAE00000006)
*Mar 5 02:30:48.599: ppp6 LCP: I CONFNAK [ACKsent] id 3 len 8
*Mar 5 02:30:48.599: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.599: ppp6 LCP: O CONFREQ [ACKsent] id 4 len 15
*Mar 5 02:30:48.599: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.599: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.603: ppp6 LCP: I CONFNAK [ACKsent] id 4 len 8
*Mar 5 02:30:48.603: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.607: ppp6 LCP: O CONFREQ [ACKsent] id 5 len 15
*Mar 5 02:30:48.607: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.607: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.611: ppp6 LCP: I CONFNAK [ACKsent] id 5 len 8
*Mar 5 02:30:48.611: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.611: ppp6 LCP: O CONFREQ [ACKsent] id 6 len 15
*Mar 5 02:30:48.611: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.611: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.615: ppp6 LCP: I CONFNAK [ACKsent] id 6 len 8
*Mar 5 02:30:48.615: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.615: ppp6 LCP: O CONFREQ [ACKsent] id 7 len 15
*Mar 5 02:30:48.615: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.619: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.619: ppp6 LCP: I CONFNAK [ACKsent] id 7 len 8
*Mar 5 02:30:48.619: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.623: ppp6 LCP: O CONFREQ [ACKsent] id 8 len 15
*Mar 5 02:30:48.623: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.623: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.627: ppp6 LCP: I CONFNAK [ACKsent] id 8 len 8
*Mar 5 02:30:48.627: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.627: ppp6 LCP: O CONFREQ [ACKsent] id 9 len 15
*Mar 5 02:30:48.627: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.627: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.631: ppp6 LCP: I CONFNAK [ACKsent] id 9 len 8
*Mar 5 02:30:48.631: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.635: ppp6 LCP: O CONFREQ [ACKsent] id 10 len 15
*Mar 5 02:30:48.635: ppp6 LCP: AuthProto MS-CHAP (0x0305C22380)
*Mar 5 02:30:48.635: ppp6 LCP: MagicNumber 0x1665F247 (0x05061665F247)
*Mar 5 02:30:48.635: ppp6 LCP: I CONFNAK [ACKsent] id 10 len 8

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*Mar 5 02:30:48.639: ppp6 LCP: AuthProto PAP (0x0304C023)
*Mar 5 02:30:48.639: ppp6 LCP: Failed to negotiate with peer
*Mar 5 02:30:48.639: ppp6 PPP: Sending Acct Event[Down] id[7]
*Mar 5 02:30:48.639: ppp6 LCP: O TERMREQ [ACKsent] id 11 len 4
*Mar 5 02:30:48.639: ppp6 PPP: Phase is TERMINATING
*Mar 5 02:30:48.647: ppp6 LCP: I TERMACK [TERMsent] id 11 len 4
*Mar 5 02:30:48.647: ppp6 LCP: State is Closed
*Mar 5 02:30:48.647: ppp6 PPP: Phase is DOWN
```

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