

Configurazione di un tunnel IPsec - Cisco VPN 3000 Concentrator su firewall Checkpoint 4.1

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[Introduzione](#)

In questo documento viene illustrato come formare un tunnel IPsec con chiavi già condivise per collegarsi a due reti private:

- Una rete privata all'interno del Cisco VPN 3000 Concentrator (192.168.1.x).
- Rete privata all'interno del firewall di Checkpoint 4.1 (10.32.50.x).

Si presume che il traffico tra l'interno del concentratore VPN e il checkpoint è diretto a Internet (rappresentato in questo documento dalle reti 172.18.124.x) scorra prima dell'inizio della configurazione.

[Prerequisiti](#)

[Requisiti](#)

Nessun requisito specifico previsto per questo documento.

[Componenti usati](#)

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e

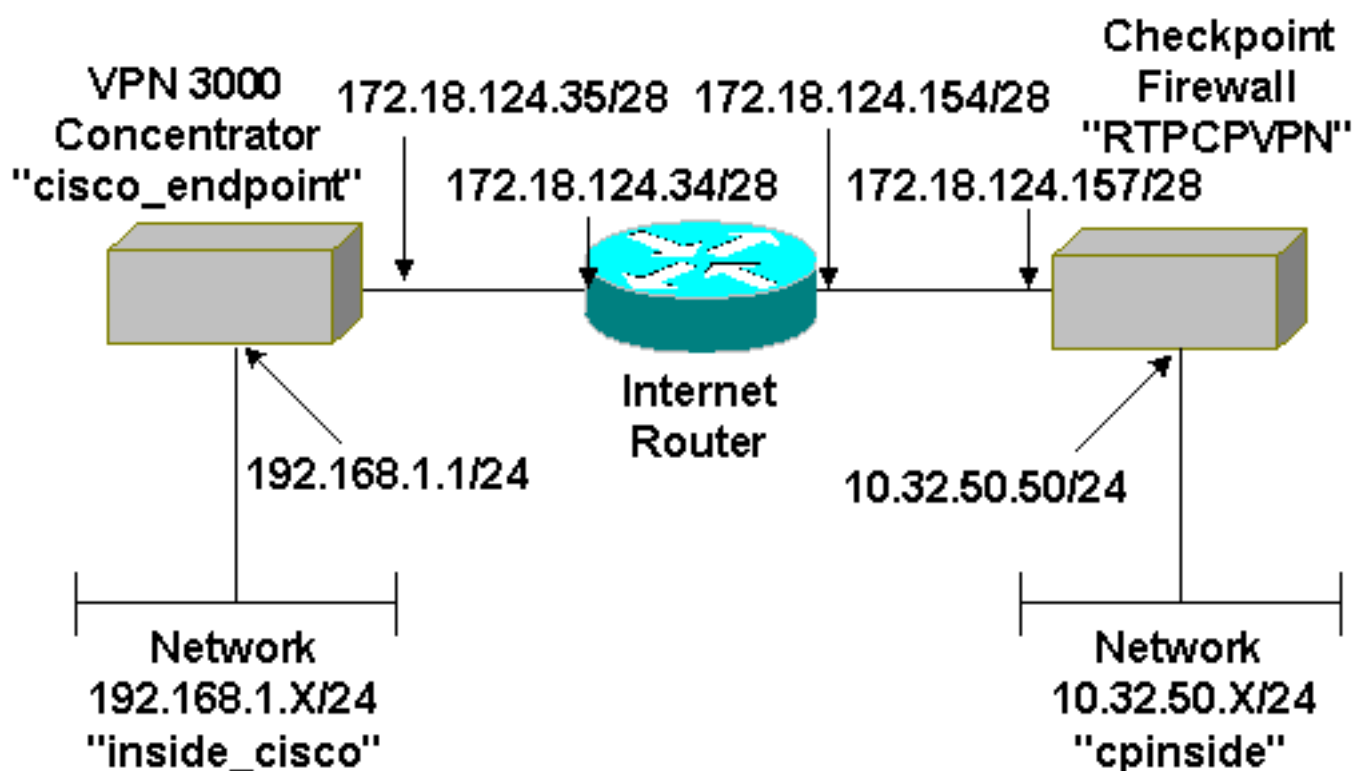
hardware:

- VPN 3000 Concentrator
- Software VPN 3000 Concentrator release 2.5.2.F
- Firewall checkpoint 4.1

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

Esempio di rete

Nel documento viene usata questa impostazione di rete:



Convenzioni

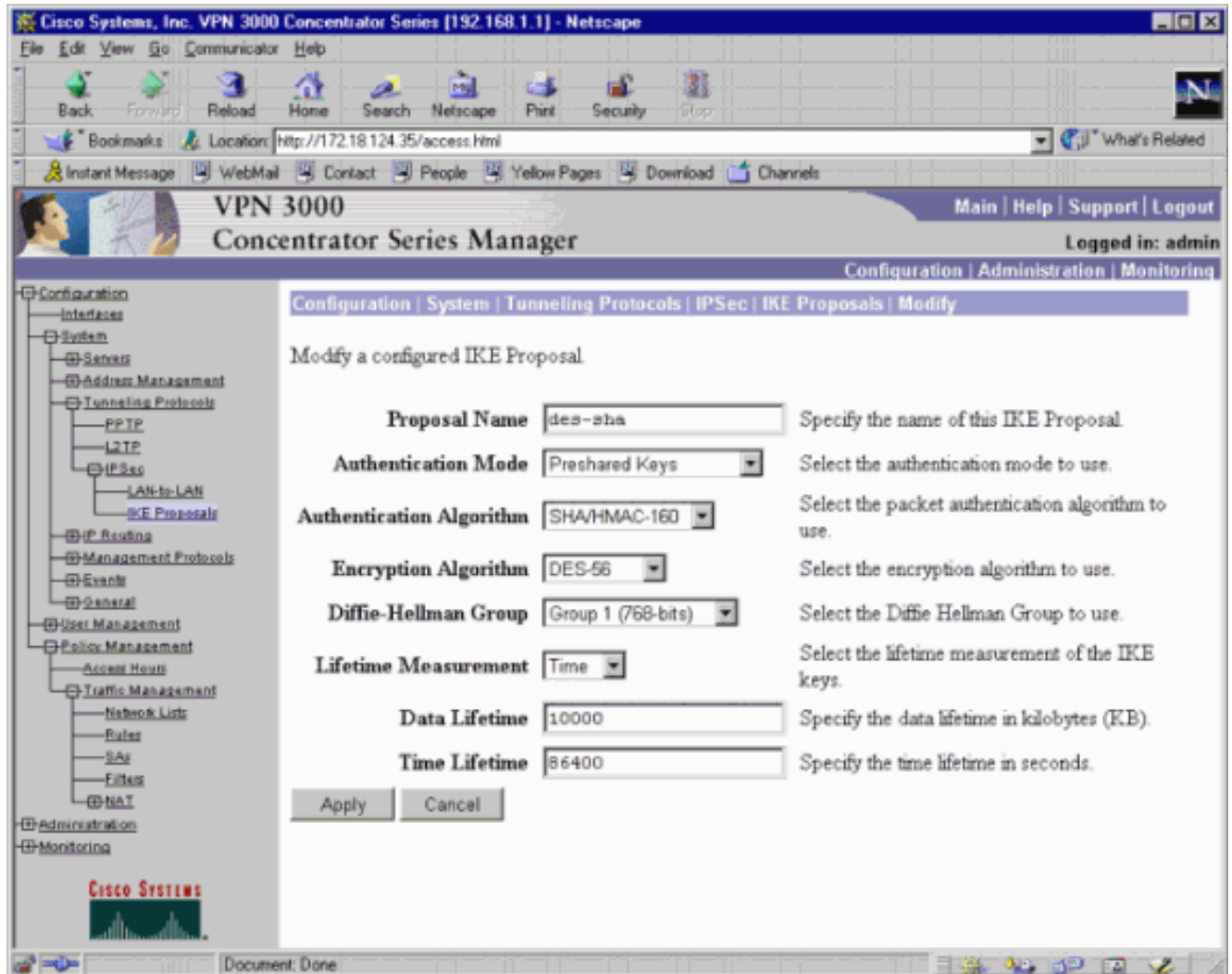
Per ulteriori informazioni sulle convenzioni usate, consultare il documento [Cisco sulle convenzioni nei suggerimenti tecnici](#).

Configurazione di VPN 3000 Concentrator

Completare questa procedura per configurare VPN 3000 Concentrator.

1. Selezionare **Configurazione > Sistema > Protocolli di tunneling > IPSec > Proposte IKE > Modifica** per creare una proposta IKE (Internet Key Exchange) denominata "des-sha" con hashing SHA (Secure Hash Algorithm), DES (Data Encryption Standard) e Diffie-Hellman Group 1. Lasciare il valore di Durata sul valore predefinito di 86400 secondi. **Nota:** l'intervallo valido per la durata di IKE di VPN Concentrator è 60-2147483647

secondi.



2. Selezionare **Configurazione > Sistema > Protocolli di tunneling > IPSec > Proposte IKE**. Selezionare "des-sha" e fare clic su **Attiva** per attivare la proposta IKE.

Address: http://172.18.124.35/access.html

VPN 3000 Concentrator Series Manager

Logged in: admin

Configuration | Administration | Monitoring

Configuration

- Interfaces
- System
 - Servers
 - Address Management
 - Tunneling Protocols
 - PPTP
 - L2TP
 - IPSec
 - LAN-to-LAN
 - IKE Proposals**
 - IP Routing
 - Management Protocols
 - Events
 - General
- User Management
- Policy Management
- Administration

Add, delete, prioritize, and configure IKE Proposals.

Select an **Inactive Proposal** and click **Activate** to make it **Active**, or click **Modify**, **Copy** or **Delete** as appropriate.

Select an **Active Proposal** and click **Deactivate** to make it **Inactive**, or click **Move Up** or **Move Down** to change its priority.

Click **Add** or **Copy** to add a new **Inactive Proposal**. IKE Proposals are used by Security Associations to specify IKE parameters.

Active Proposals	Actions	Inactive Proposals
des-sha	<< Activate	— Empty —
IKE-DES-MD5	Deactivate >>	
IKE-3DES-MD5	Move Up	

3. Selezionare **Configurazione > Sistema > Protocolli di tunneling > IPSec LAN-to-LAN > Aggiungi**. Configurare un tunnel IPsec denominato "to_checkpoint" con l'indirizzo del checkpoint come peer. In Chiave già condivisa, immettere la chiave effettiva. In Autenticazione selezionare ESP/SHA/HMAC-160, quindi DES-56 per Crittografia. Immettere la proposta IKE ("des-sha" in questo esempio) e le reti locale e remota.

Cisco Systems, Inc. VPN 3000 Concentrator Series [192.168.1.1] - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Stop

Bookmarks Location: http://172.18.124.35/access.html What's Related

Instant Message WebMail Contact People Yellow Pages Download Channels

VPN 3000 Concentrator Series Manager

Main | Help | Support | Logout

Logged in: admin


Configuration | Administration | Monitoring

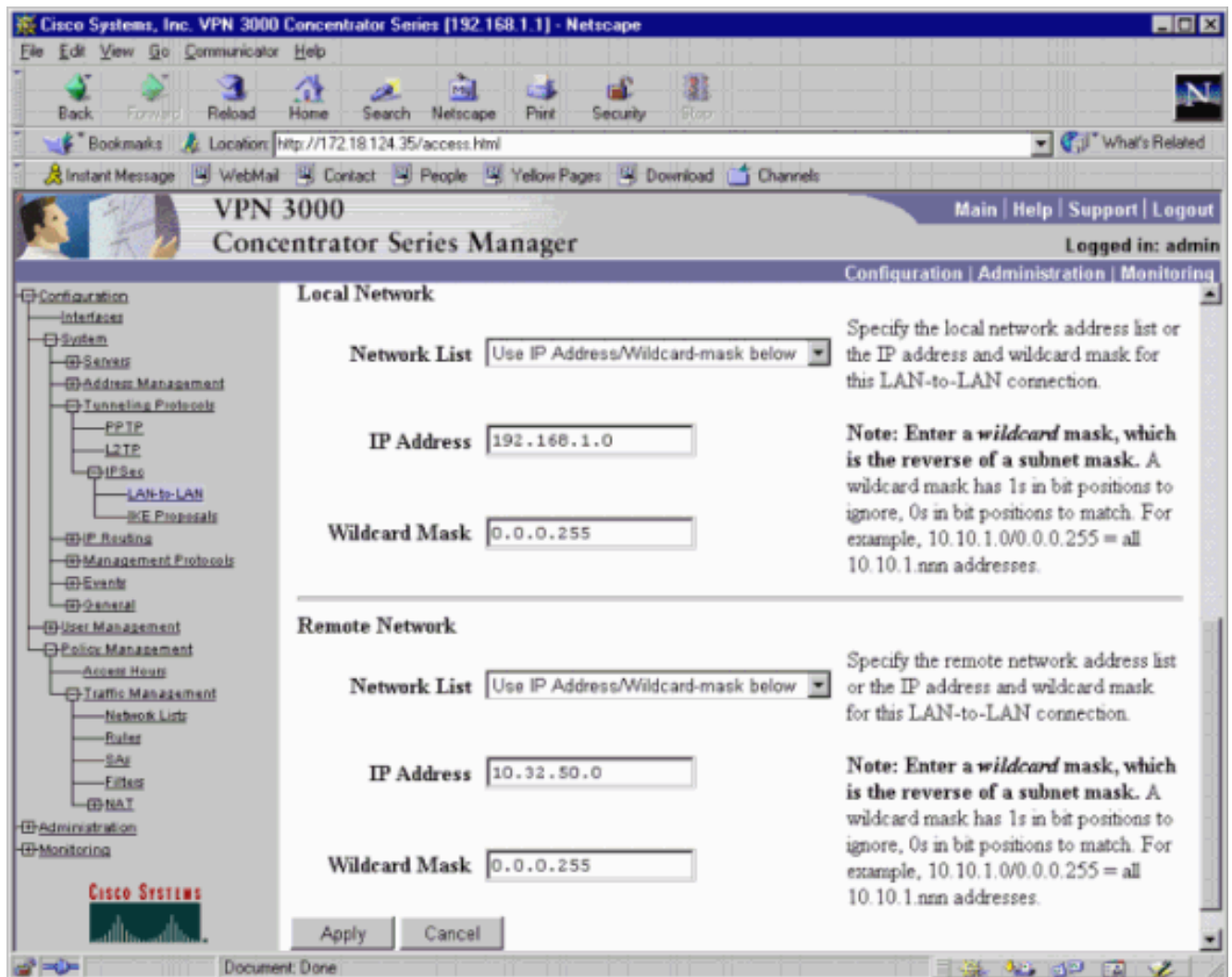
Configuration | System | Tunneling Protocols | IPSec LAN-to-LAN | Modify

Modify an IPSec LAN-to-LAN connection.

Name	<input type="text" value="to_checkpoint"/>	Enter the name for this LAN-to-LAN connection.
Interface	<input type="text" value="Ethernet 2 (Public) (172.18.124.35)"/>	Select the interface to put this LAN-to-LAN connection on.
Peer	<input type="text" value="172.18.124.157"/>	Enter the IP address of the remote peer for this LAN-to-LAN connection.
Digital Certificate	<input type="text" value="None (Use Preshared Keys)"/>	Select the Digital Certificate to use.
Preshared Key	<input type="text" value="ciscorules"/>	Enter the preshared key for this LAN-to-LAN connection.
Authentication	<input type="text" value="ESP/SHA/HMAC-160"/>	Specify the packet authentication mechanism to use.
Encryption	<input type="text" value="DES-56"/>	Specify the encryption mechanism to use.
IKE Proposal	<input type="text" value="des-sha"/>	Select the IKE Proposal to use for this LAN-to-LAN connection.
Network Autodiscovery	<input type="checkbox"/>	Check to automatically discover networks. Parameters below are ignored if checked.

Access Hour Policies





4. Selezionare **Configurazione > Gestione delle policy > Gestione traffico > Associazioni di sicurezza > Modifica**. Verificare che Perfect Forward Secrecy sia **Disabilitato** e lasciare il valore di Durata IPsec su un valore predefinito di **2800** secondi. **Nota:** l'intervallo valido per la durata di IPsec del concentratore VPN è compreso tra 60 e 2147483647 secondi.

Cisco Systems, Inc. VPN 3000 Concentrator Series [192.168.1.1] - Netscape

File Edit View Go Communicator Help

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Location: http://172.18.124.35/access.html

Instant Message WebMail Contact People Yellow Pages Download Channels

VPN 3000
Concentrator Series Manager

Main | Help | Support | Logout
Logged in: admin
Configuration | Administration | Monitoring

Configuration | Policy Management | Traffic Management | Security Associations | Modify

Modify a configured Security Association

SA Name Specify the name of this Security Association (SA).

Inheritance Select the granularity of this SA.

IPSec Parameters

Authentication Algorithm Select the packet authentication algorithm to use.

Encryption Algorithm Select the ESP encryption algorithm to use.

Encapsulation Mode Select the Encapsulation Mode for this SA.

Perfect Forward Secrecy Select the use of Perfect Forward Secrecy.

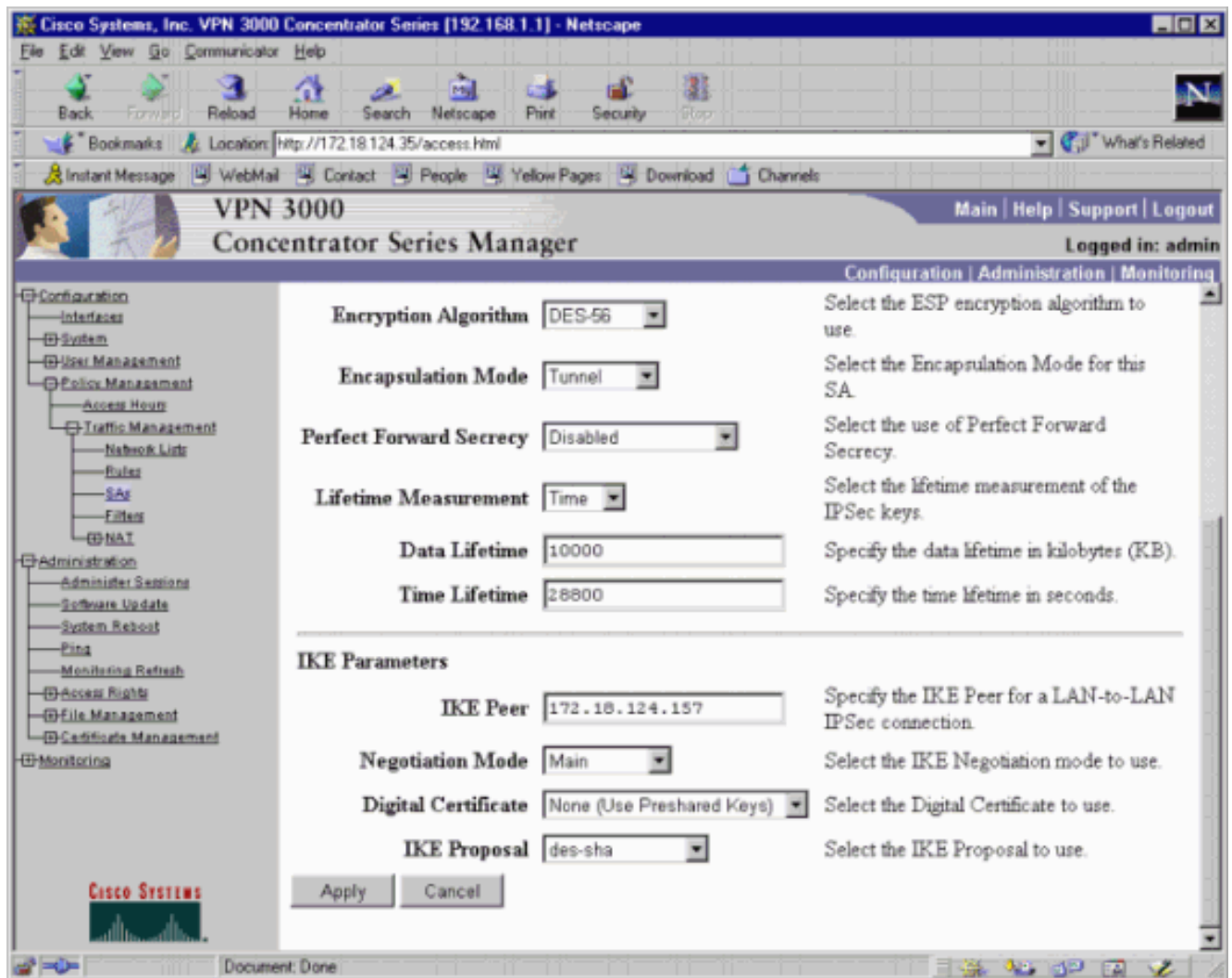
Lifetime Measurement Select the lifetime measurement of the IPSec keys.

Data Lifetime Specify the data lifetime in kilobytes (KB).

Time Lifetime Specify the time lifetime in seconds.

CISCO SYSTEMS

Document: Done

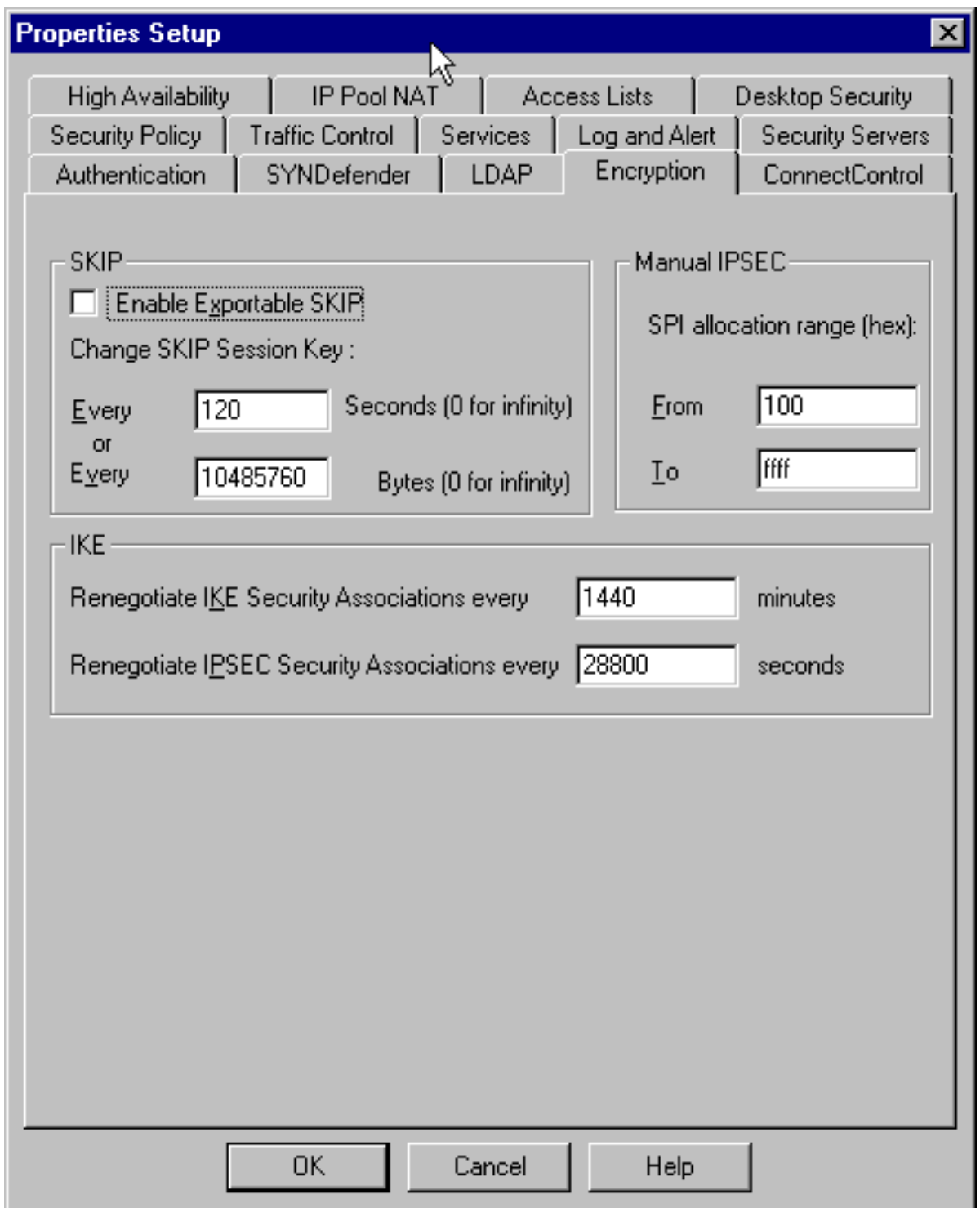


5. Salvare la configurazione.

[Configurare il firewall di Checkpoint 4.1](#)

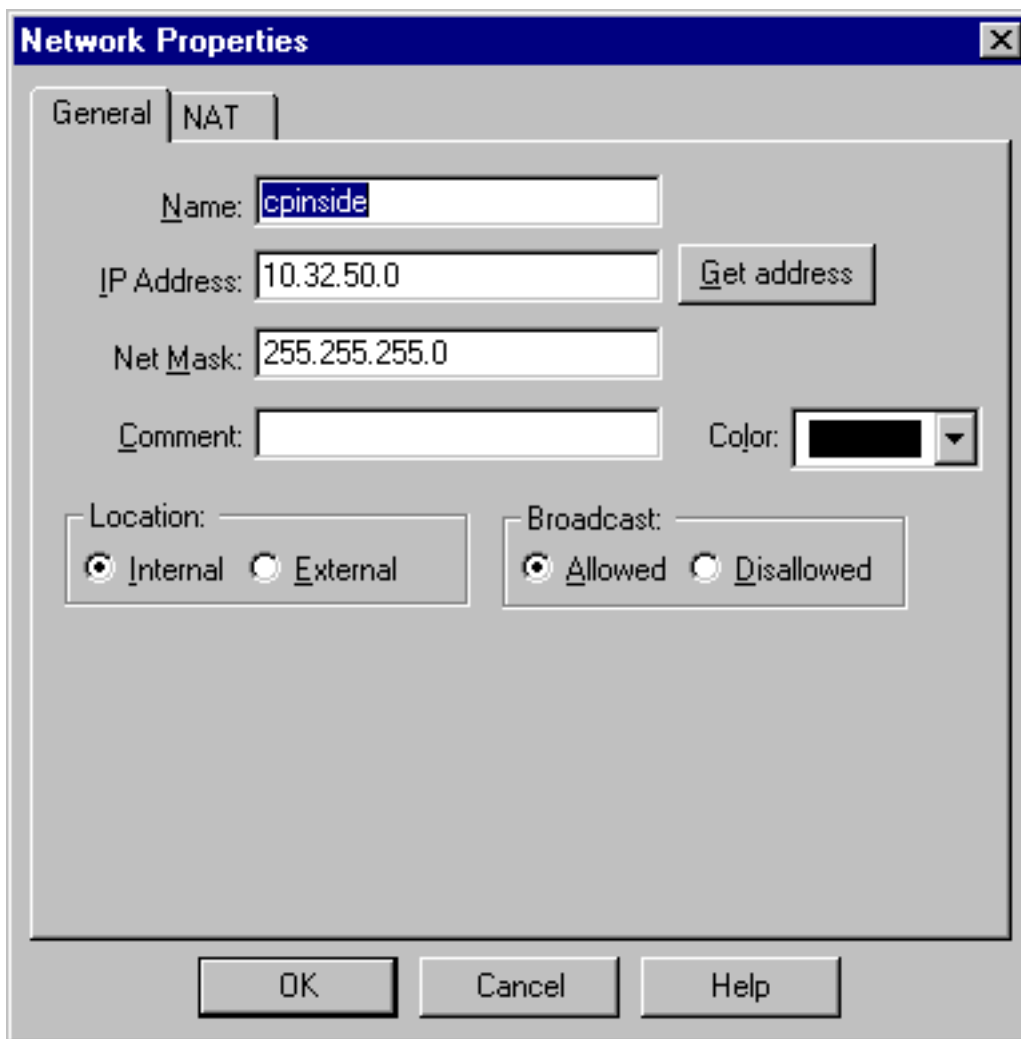
Completare la procedura seguente per configurare il firewall di Checkpoint 4.1.

1. Poiché la durata predefinita di IKE e IPsec varia a seconda del fornitore, selezionare **Proprietà > Crittografia** per impostare la durata del checkpoint in modo che corrisponda a quella predefinita di VPN Concentrator. La durata predefinita di IKE di VPN Concentrator è 86400 secondi (=1440 minuti). La durata predefinita di IPsec di VPN Concentrator è 2800



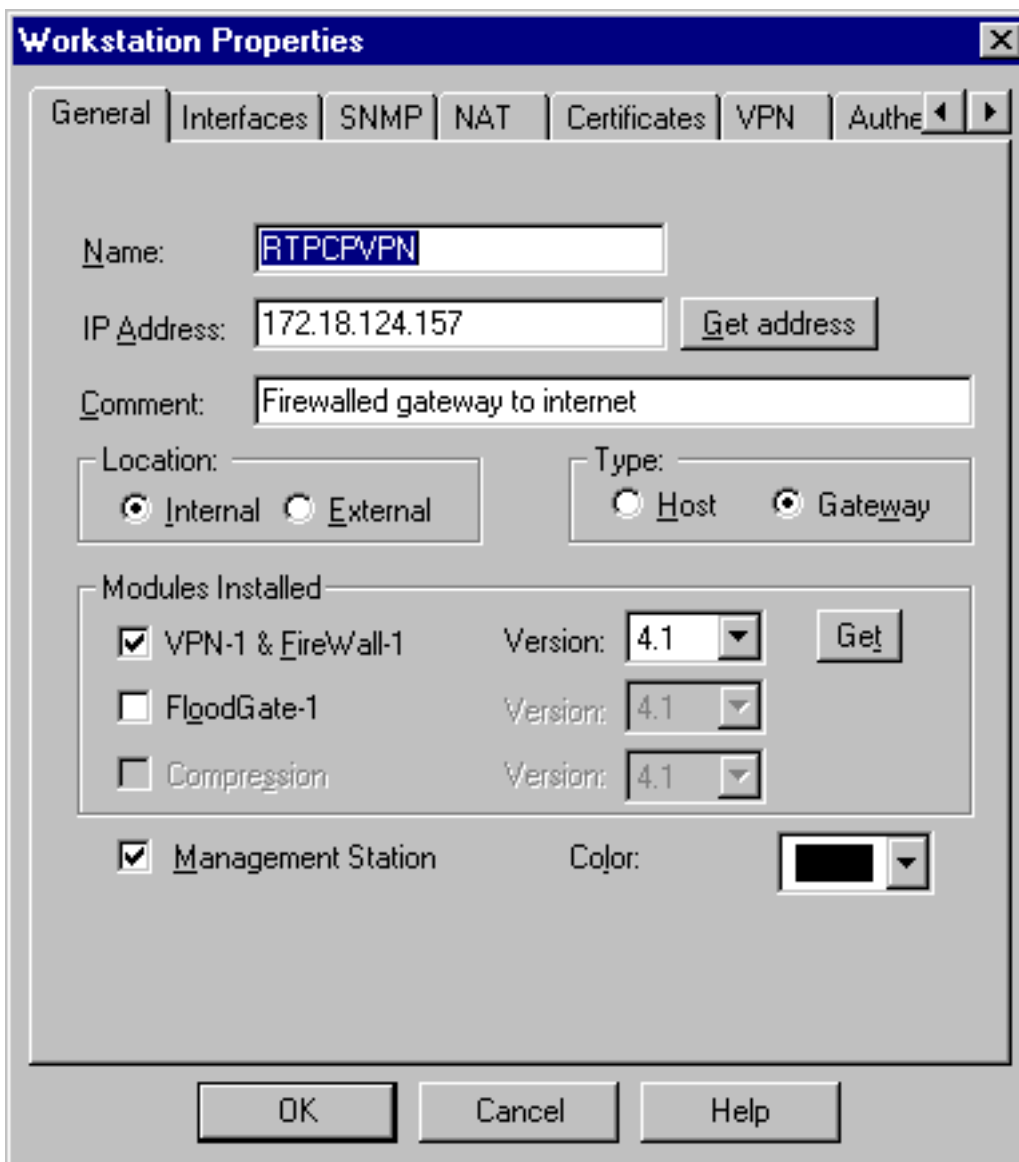
secondi.

2. Selezionare **Gestisci > Oggetti di rete > Nuovo (o Modifica) > Rete** per configurare l'oggetto per la rete interna ("cpinside") dietro il checkpoint. In questo caso, la connessione deve essere compatibile con la "Rete remota" del concentratore



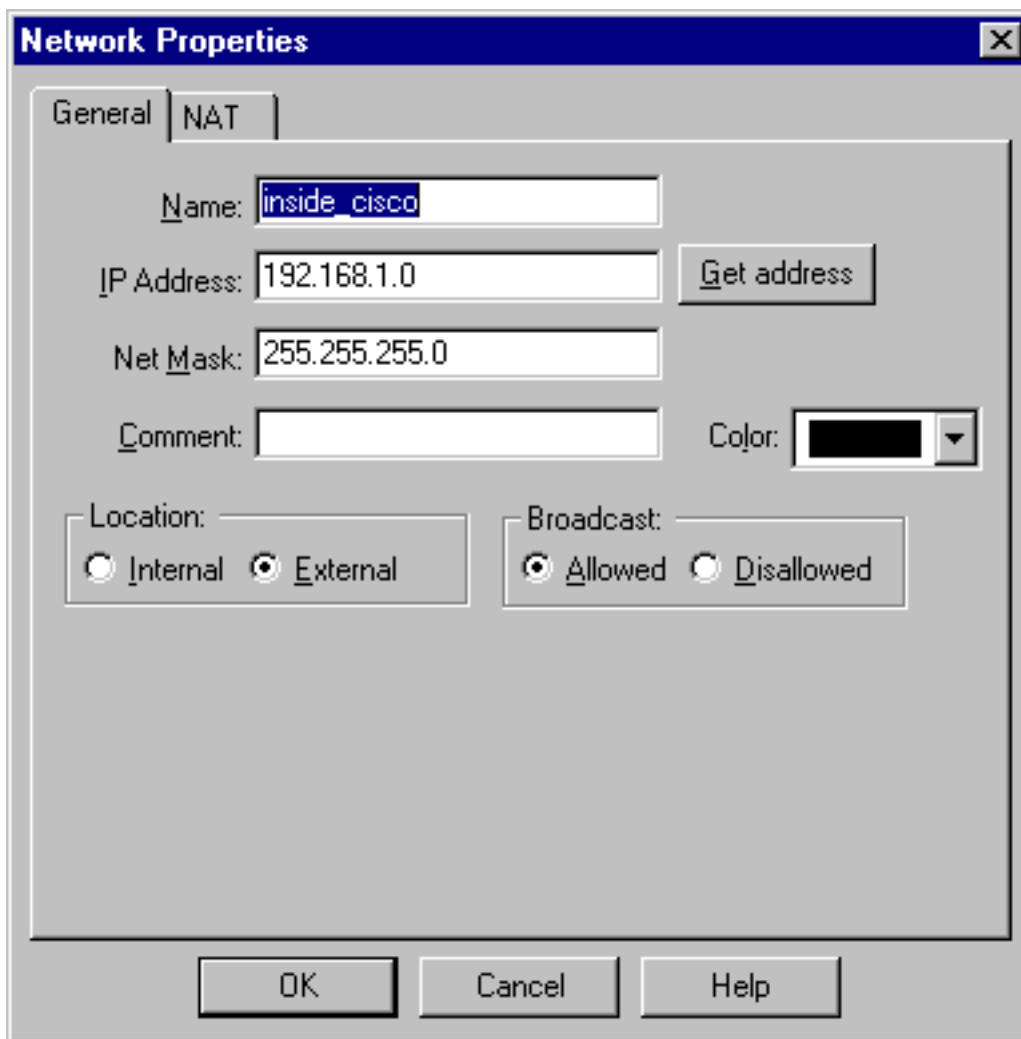
VPN.

3. Selezionare **Gestisci > Oggetti di rete > Modifica** per modificare l'oggetto per l'endpoint gateway ("punto di controllo RTPCPVPN") di cui dispone il concentratore VPN nel parametro Peer. In Posizione selezionare **Interno**. Per Tipo, selezionare **Gateway**. In Moduli installati, controllare **VPN-1 e FireWall-1** e controllare **Management**



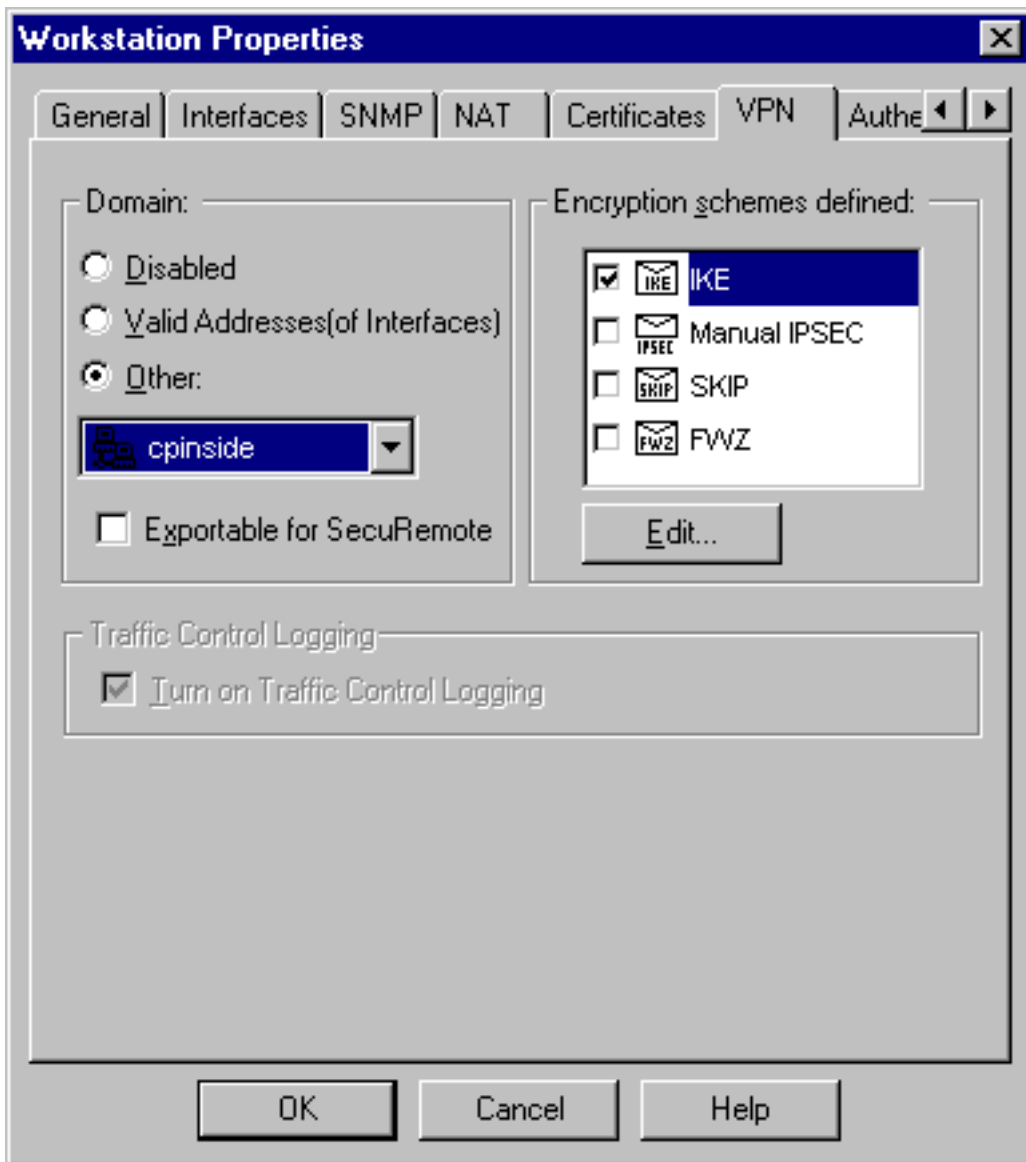
Station.

4. Selezionare **Gestisci > Oggetti di rete > Nuovo (o Modifica) > Rete** per configurare l'oggetto per la rete esterna ("inside_cisco") dietro al concentratore VPN. In questo caso, la connessione deve essere stabilita con la rete "locale" nel concentratore



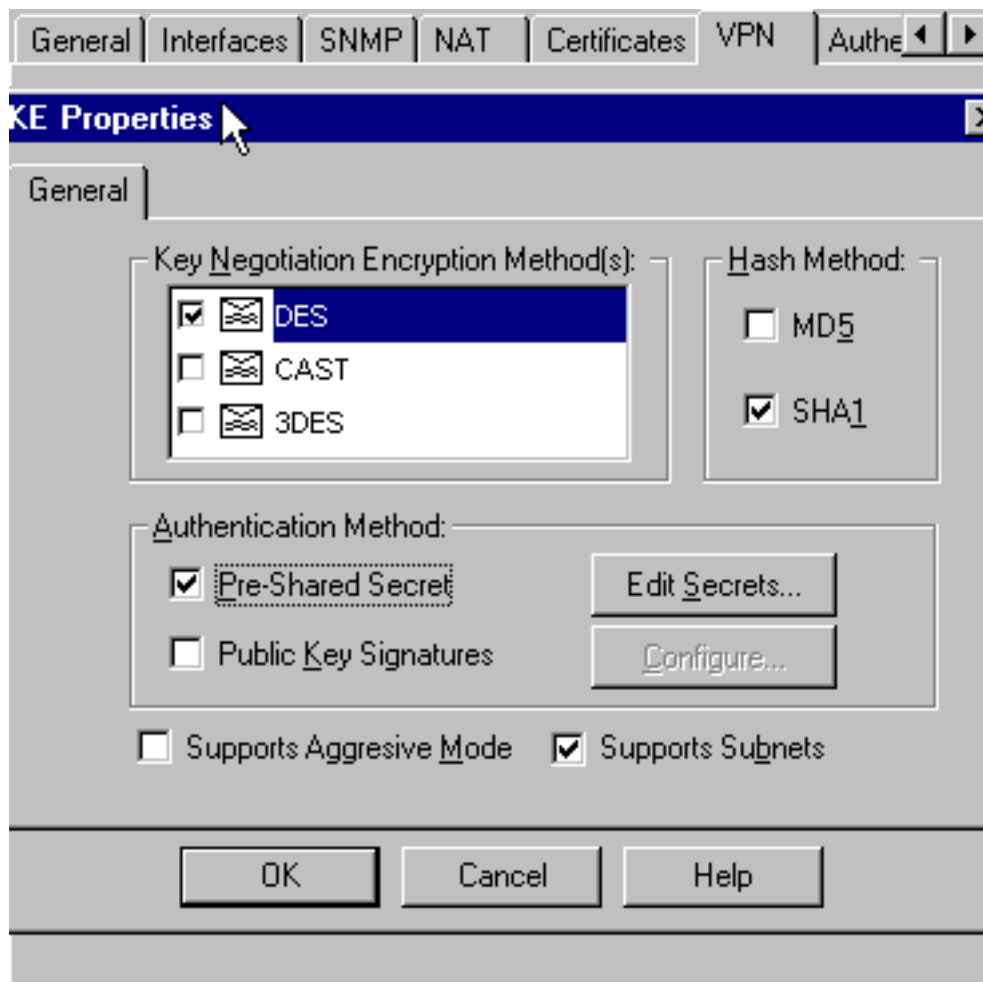
VPN.

5. Selezionare **Gestisci > Oggetti di rete > Nuovo > Workstation** per aggiungere un oggetto per il gateway VPN Concentrator esterno ("cisco_endpoint"). Questa è l'interfaccia "pubblica" di VPN Concentrator. In Posizione selezionare **Esterna**. Per Tipo, selezionare **Gateway**. **Nota:** non selezionare la casella di controllo VPN-1/FireWall-1.
6. Selezionare **Gestisci > Oggetti di rete > Modifica** per modificare la scheda VPN dell'endpoint del gateway del checkpoint (chiamata "RTPCPVPN"). In Dominio, selezionare Altro, quindi selezionare l'interno della rete di punti di controllo (denominata "cpinside") dall'elenco a discesa. In Definizione schemi di crittografia selezionare **IKE**, quindi fare clic su



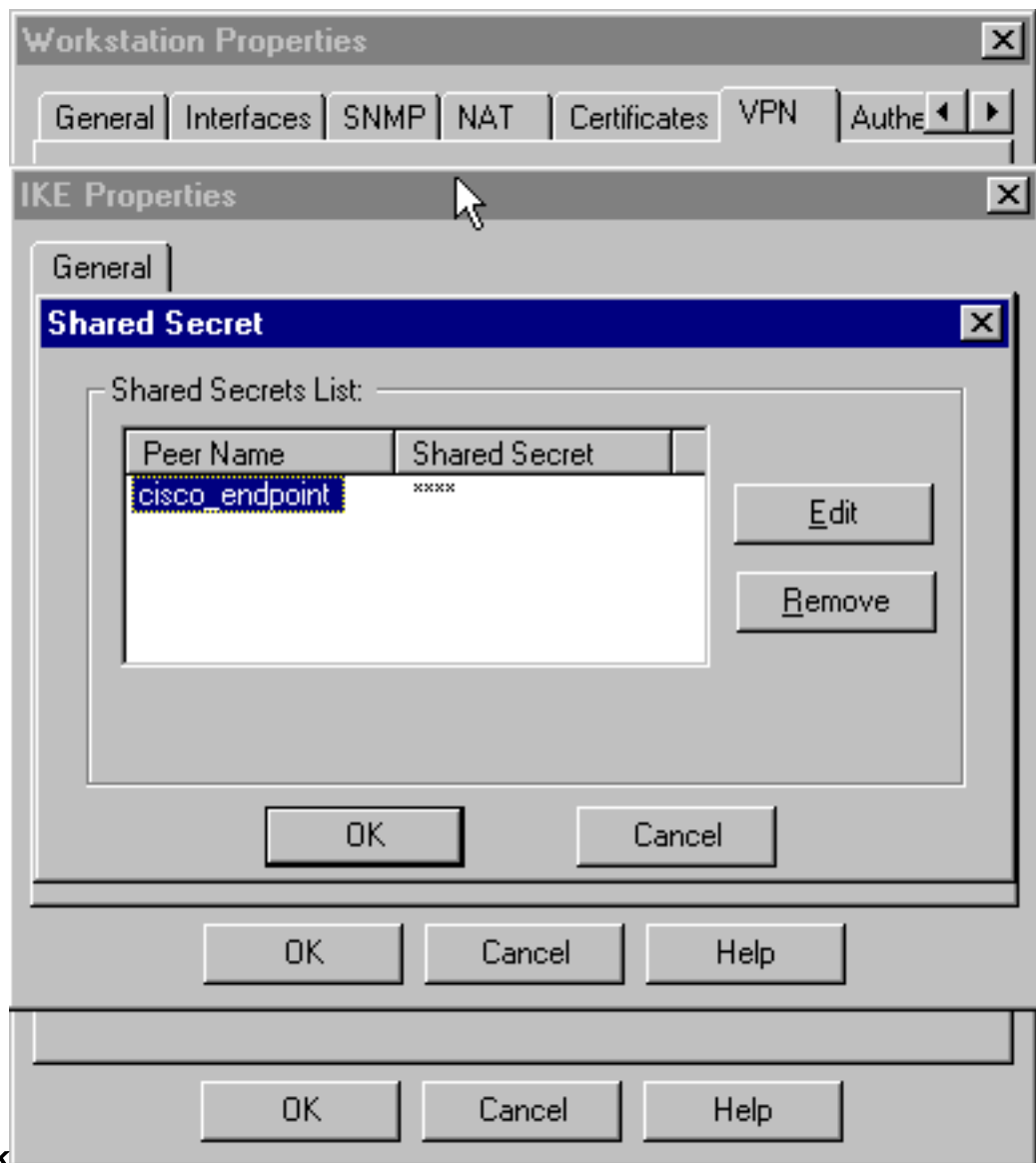
Modifica.

7. Modificare le proprietà IKE della crittografia DES in modo che corrispondano a **DES-56** e **Encryption Algorithm** sul concentratore VPN.
8. Modificare le proprietà IKE in hashing SHA1 per accettare l'algoritmo **SHA/HMAC-160** nel concentratore VPN. Deselezionare **Modalità aggressiva**. Selezionare **Supporta le subnet**. Selezionare **Segreto prediviso** in Metodo di autenticazione. Questa impostazione è in linea con la modalità di autenticazione di VPN Concentrator, chiavi già



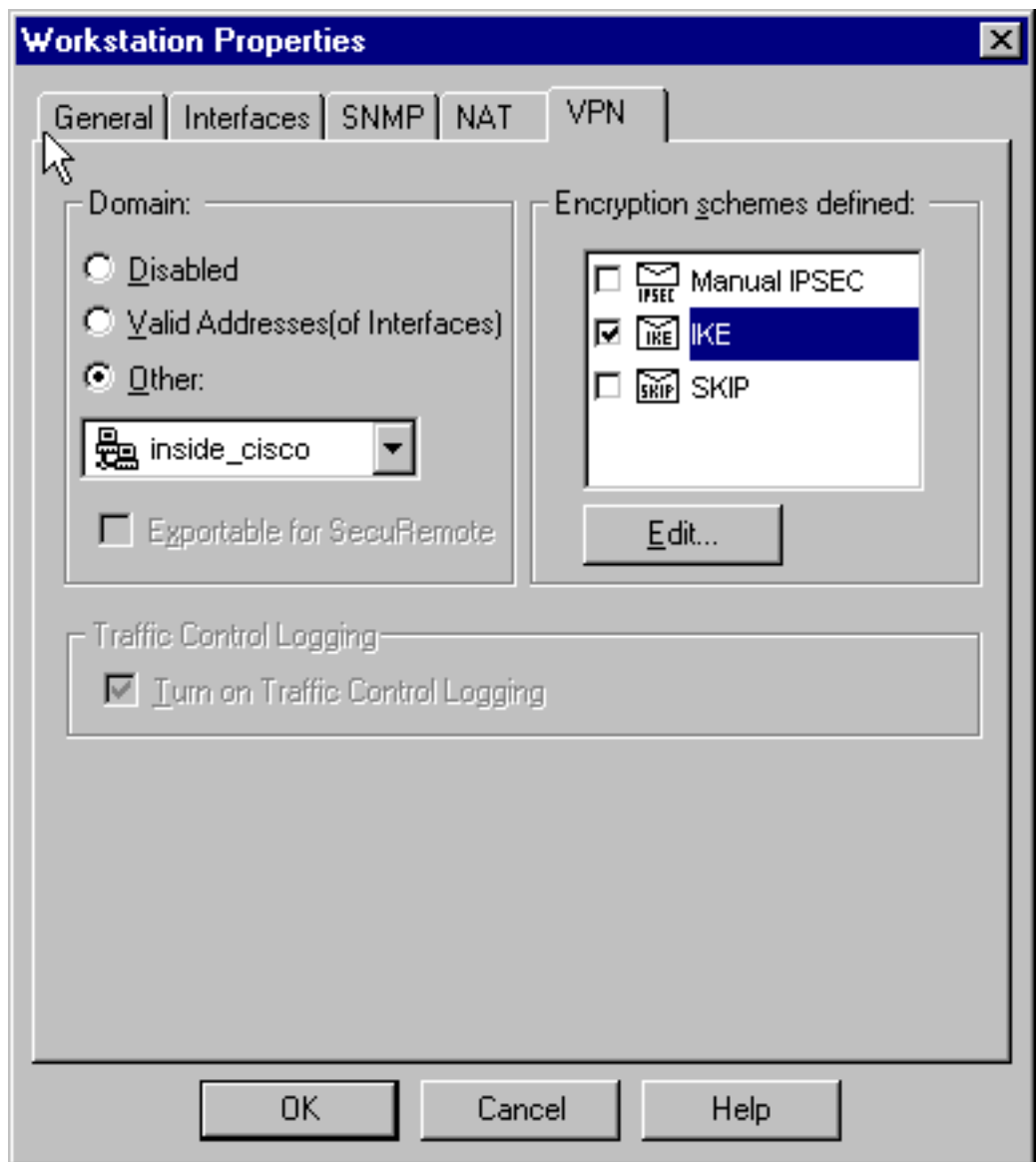
condivise.

9. Fare clic su **Edit Secrets** (Modifica segreti) per impostare la chiave già condivisa in modo che concordi con la **chiave già condivisa di VPN Concentrator** effettiva. **isakmp key address**



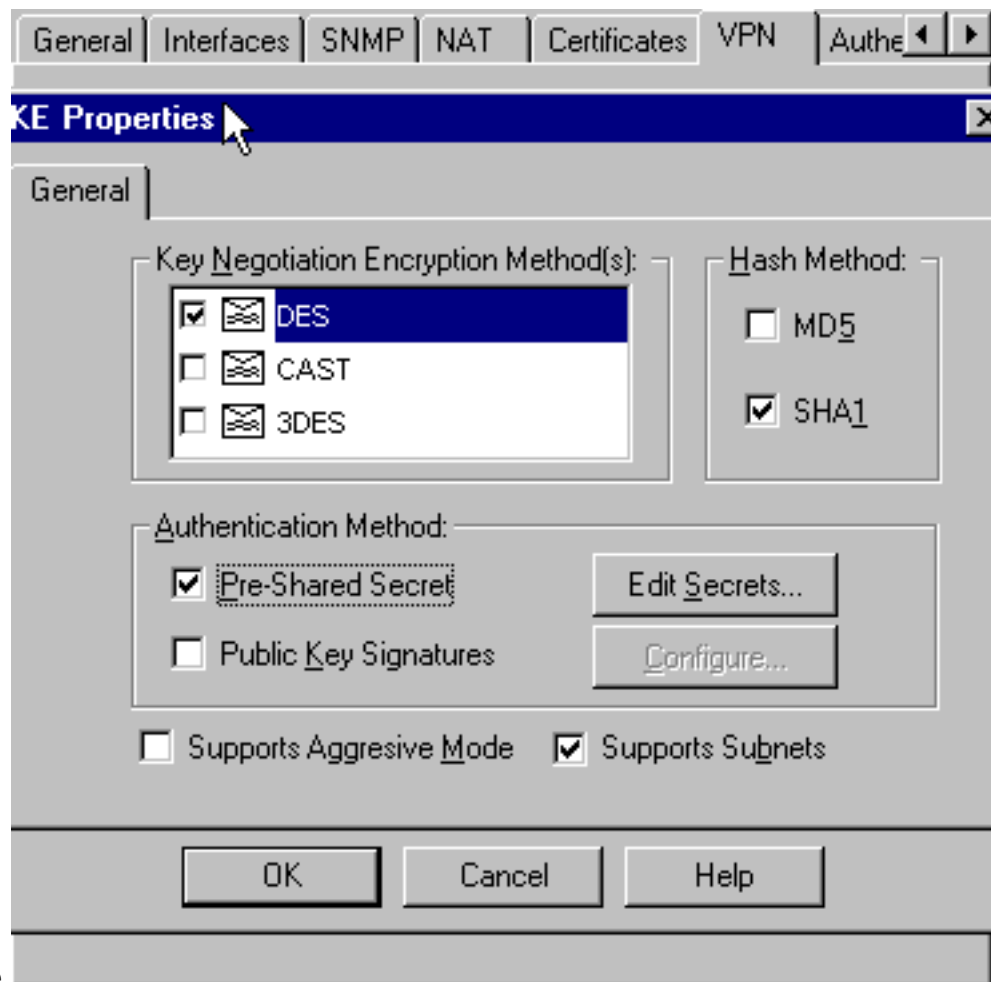
netmask netmask

10. Selezionare **Gestisci > Oggetti di rete > Modifica** per modificare la scheda VPN "cisco_endpoint". In Dominio, selezionare **Altro**, quindi selezionare l'interno della rete Cisco (chiamata "inside_cisco"). In Definizione schemi di crittografia selezionare **IKE**, quindi fare



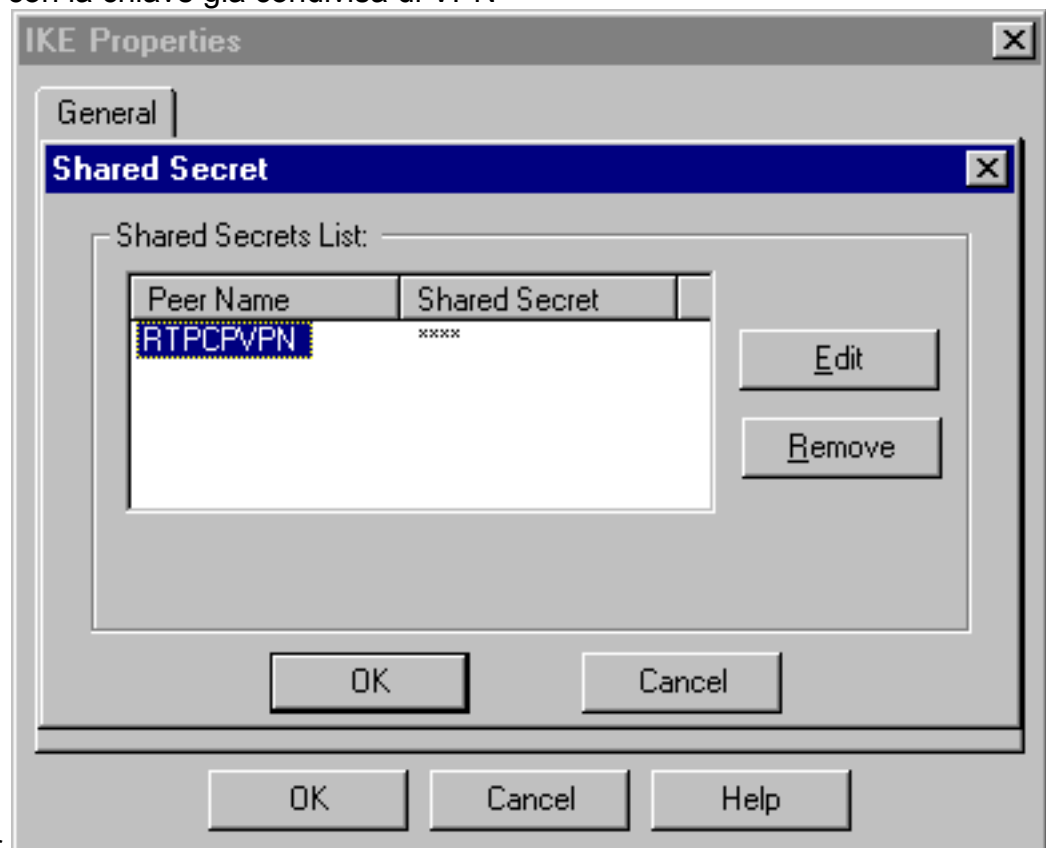
clic su **Modifica**.

11. Modificare la crittografia DES delle proprietà IKE in modo che corrisponda a **DES-56, Encryption Algorithm** su VPN Concentrator.
12. Modificare le proprietà IKE in hashing SHA1 per accettare l'algoritmo **SHA/HMAC-160** nel concentratore VPN. Cambia le impostazioni: **Deselezionare Modalità aggressiva**. Selezionare **Supporta le subnet**. Selezionare **Segreto precondiviso** in Metodo di autenticazione. Questa impostazione è in linea con la modalità di autenticazione del concentratore VPN delle chiavi



già condivise.

13. Fare clic su **Edit Secrets** (Modifica segreti) per impostare la chiave già condivisa in modo che concordi con la chiave già condivisa di VPN

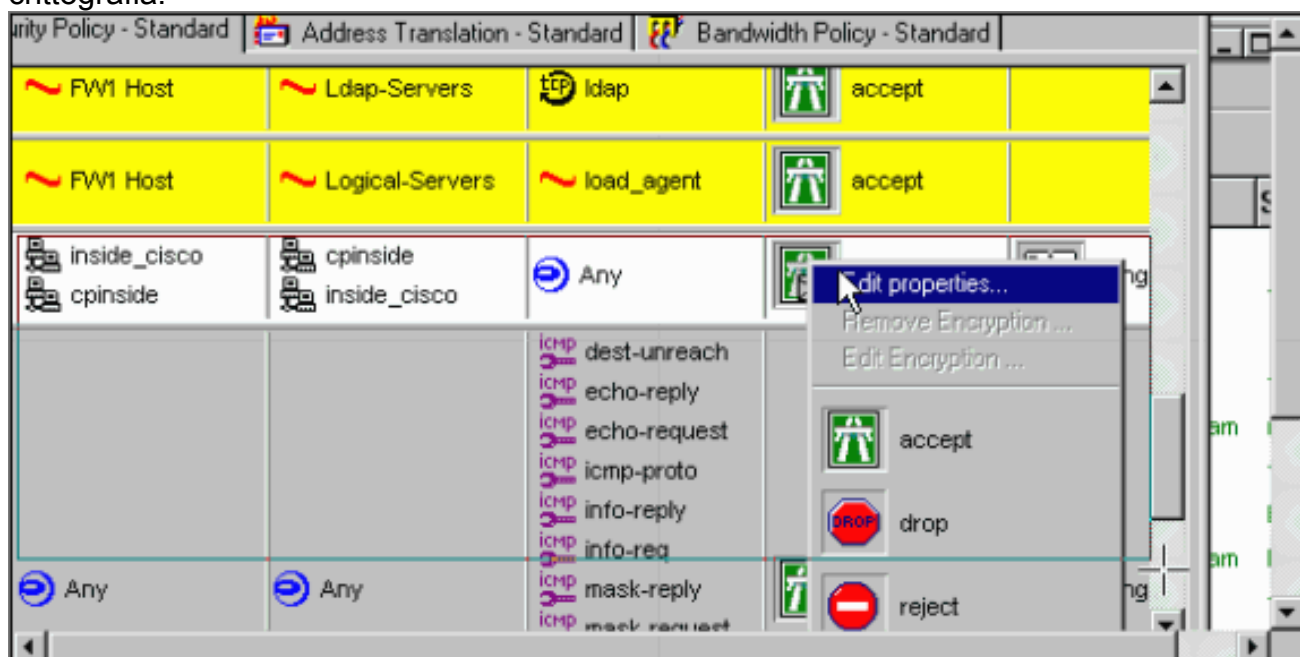


Concentrator.

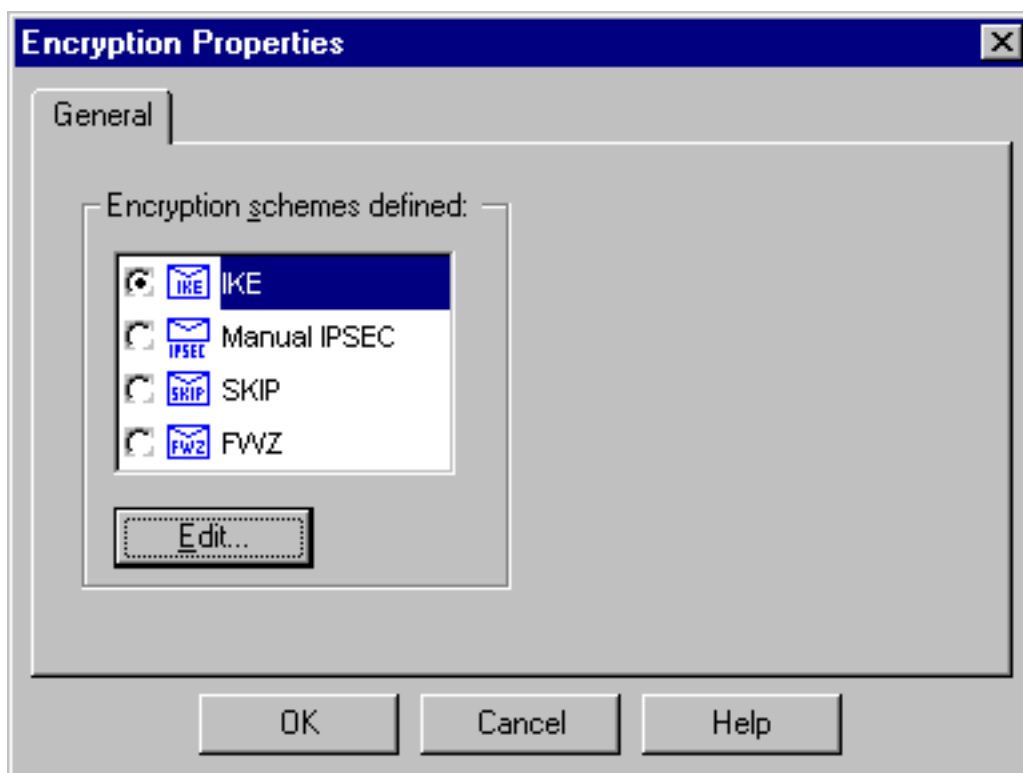
14. Nella finestra Editor dei criteri inserire una regola con Origine e Destinazione come "inside_cisco" e "cpinside" (bidirezionale). Set Service=Any, Action=Encrypt e Track=Long.



15. Sotto l'intestazione Azione, fare clic sull'icona **Encrypt** verde e selezionare **Modifica proprietà** per configurare i criteri di crittografia.

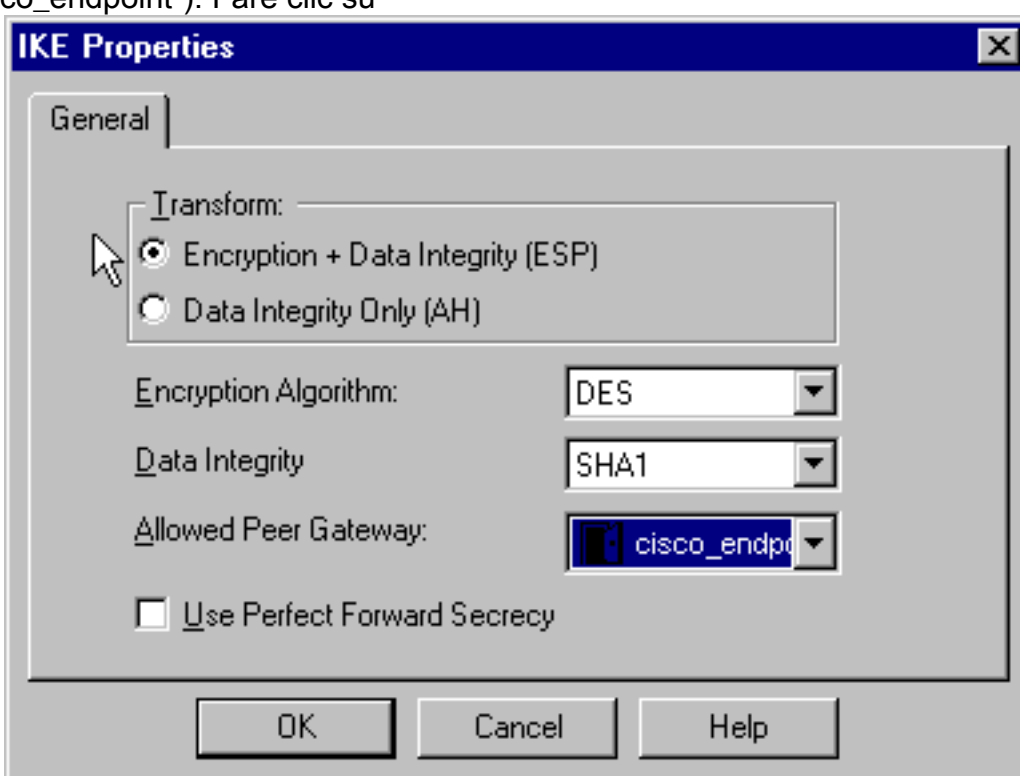


16. Selezionare **IKE**, quindi fare clic su



Modifica.

17. Nella finestra Proprietà IKE modificare queste proprietà in modo che corrispondano alle trasformazioni IPsec di VPN Concentrator. In Trasforma, selezionare **Crittografia + integrità dei dati (ESP)**. L'algoritmo di crittografia deve essere **DES**, l'integrità dei dati deve essere SHA1 e il gateway peer consentito deve essere il gateway Cisco esterno (chiamato "cisco_endpoint"). Fare clic su



OK.

18. Dopo aver configurato il checkpoint, selezionare **Criterio > Installa** nel menu del checkpoint per rendere effettive le modifiche.

Verifica

Attualmente non è disponibile una procedura di verifica per questa configurazione.

Risoluzione dei problemi

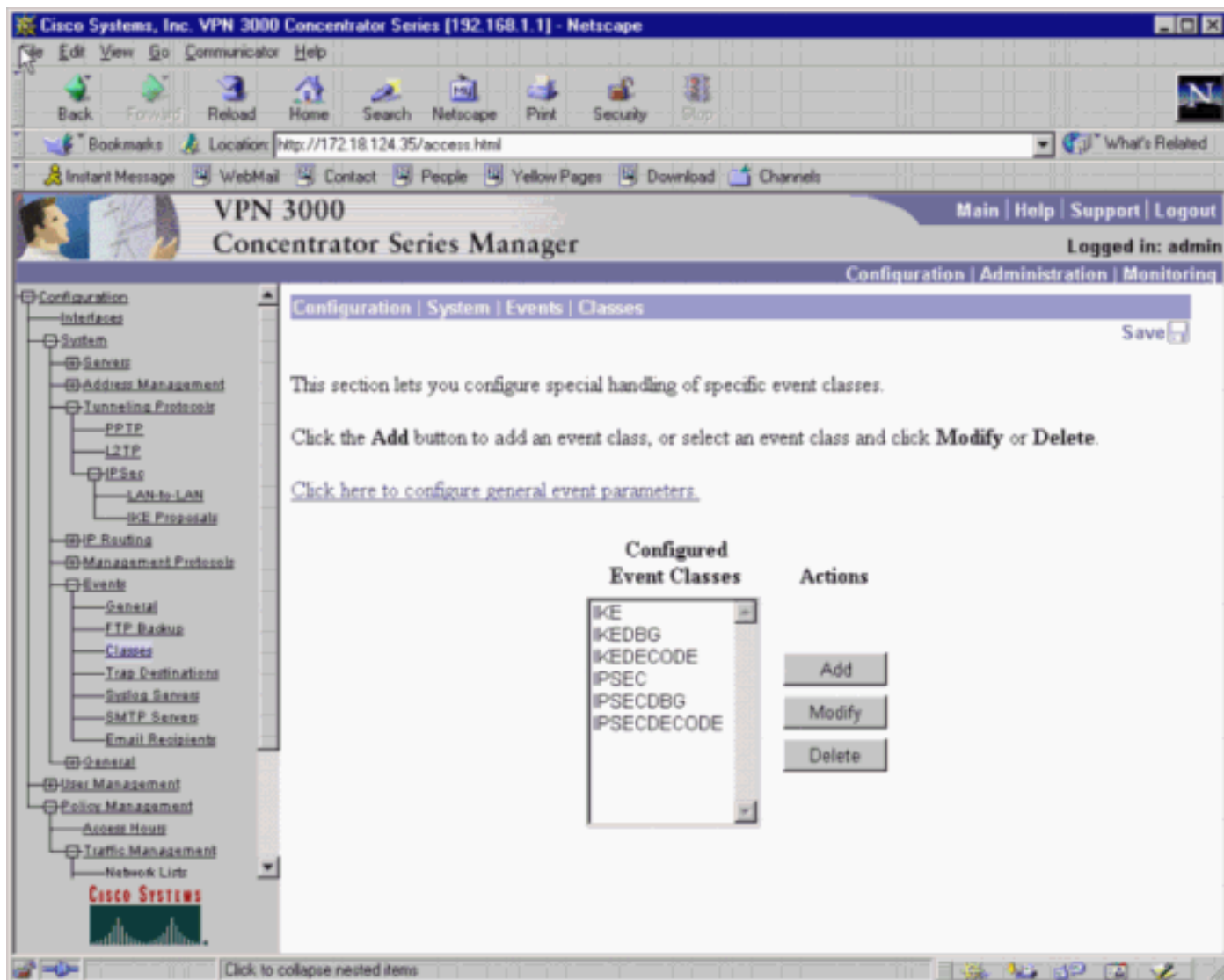
Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

Riepilogo della rete

Quando più reti interne adiacenti sono configurate nel dominio di crittografia sul checkpoint, il dispositivo potrebbe riepilgarle automaticamente in relazione al traffico interessante. Se VPN Concentrator non è configurato per la corrispondenza, è probabile che il tunnel non riesca. Ad esempio, se le reti interne 10.0.0.0 /24 e 10.0.1.0 /24 sono configurate per essere incluse nel tunnel, è possibile riepilgarle in 10.0.0.0 /23.

Debug VPN 3000 Concentrator

I possibili debug di VPN Concentrator includono IKE, IKEDBG, IKEDECODE, IPSEC, IPSECDBG, IPSECDECODE. Questa impostazione è definita in **Configurazione > Sistema > Eventi > Classi**.



The screenshot shows the Cisco VPN 3000 Concentrator Series Manager web interface. The browser window title is "Cisco Systems, Inc. VPN 3000 Concentrator Series [192.168.1.1] - Netscape". The address bar shows "http://172.18.124.35/access.html". The page title is "VPN 3000 Concentrator Series Manager" and the user is logged in as "admin". The navigation menu includes "Configuration", "Administration", and "Monitoring". The left sidebar shows a tree view with "Events" expanded to "Classes". The main content area has a breadcrumb "Configuration | System | Events | Classes" and a "Save" button. The text reads: "This section lets you configure special handling of specific event classes. Click the **Add** button to add an event class, or select an event class and click **Modify** or **Delete**. [Click here to configure general event parameters.](#)" Below this is a table with two columns: "Configured Event Classes" and "Actions". The table lists the following event classes: IKE, IKEDBG, IKEDECODE, IPSEC, IPSECDBG, and IPSECDECODE. To the right of the list are three buttons: "Add", "Modify", and "Delete".

Configured Event Classes	Actions
IKE	<input type="button" value="Add"/> <input type="button" value="Modify"/> <input type="button" value="Delete"/>
IKEDBG	
IKEDECODE	
IPSEC	
IPSECDBG	
IPSECDECODE	

Cisco Systems, Inc. VPN 3000 Concentrator Series [192.168.1.1] - Netscape

File Edit View Go Communicator Help

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Bookmarks Location: <http://172.18.124.35/access.html> What's Related

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VPN 3000 Concentrator Series Manager

Main | Help | Support | Logout

Logged in: admin

Configuration | Administration | Monitoring

Configuration | System | Events | Classes | Modify

This screen lets you modify an event class configured for special handling.

Class Name

Enable Check to enable special handling of this class.

Severity to Log Select the range of severity values to enter in the log.

Severity to Console Select the range of severity values to display on the console.

Severity to Syslog Select the range of severity values to send to a Syslog server.

Severity to Email Select the range of severity values to send via email to the recipient list.

Severity to Trap Select the range of severity values to send to an SNMP system.

Apply Cancel

È possibile visualizzare i debug in Monitoraggio > Registro eventi > Ottieni registro.

VPN 3000 Concentrator Series Manager

Monitoring | Event Log

Select Filter Options

Event Class: All Classes (dropdown menu showing AUTH, AUTHDBG, AUTHDECODE)

Severities: ALL (dropdown menu showing 1, 2, 3)

Client IP Address: 0.0.0.0

Events/Page: 100

Direction: Oldest to Newest

Buttons: Get Log, Save Log, Clear Log

Log Entry:

```

1 02/13/2001 14:21:28.530 SEV=8 IKEDECODE/0 RPT=180 172.18.124.157
ISAKMP HEADER : ( Version 1.0 )
Initiator Cookie(8): EF 61 3C 27 07 74 1B 25
Responder Cookie(8): 00 00 00 00 00 00 00 00
  
```

Selezionare Monitoraggio > Sessioni per monitorare il traffico del tunnel da LAN a LAN.

VPN 3000 Concentrator Series Manager

Monitoring | Sessions

LAN-to-LAN Sessions	Remote Access Sessions	Management Sessions	Active Sessions	Concurrent Sessions	Sessions Limit	Cumulative Sessions
1	0	1	2	3	10000	17

LAN-to-LAN Sessions [Remote Access Sessions | Management Sessions]

Connection Name	IP Address	Protocol	Encryption	Login Time	Duration	Bytes Tx	Bytes Rx
to_checkpoint	172.18.124.157	IPSec/LAN-to-LAN	DES-56	Feb 13 14:21:31	0:44:25	1664	1664

Remote Access Sessions [LAN-to-LAN Sessions | Management Sessions]

Username	Public IP Address	Assigned IP Address	Protocol	Encryption	Login Time	Duration	Bytes Tx	Bytes Rx
----------	-------------------	---------------------	----------	------------	------------	----------	----------	----------

Selezionare Amministrazione > Amministra sessioni > Sessioni da LAN a LAN > Azioni > Disconnessione per cancellare il tunnel.

Debug del firewall di Checkpoint 4.1

Nota: si tratta di un'installazione di Microsoft Windows NT. Poiché il [rilevamento è stato impostato su Long nella finestra Editor dei criteri](#), il traffico negato dovrebbe essere visualizzato in rosso nel Visualizzatore log. Per ottenere un debug più dettagliato, usare:

```
C:\WINNT\FW1\4.1\fwstop  
C:\WINNT\FW1\4.1\fw d -d
```

e in un'altra finestra:

```
C:\WINNT\FW1\4.1\fwstart
```

Utilizzare i seguenti comandi per cancellare le associazioni di protezione sul checkpoint:

```
fw tab -t IKE_SA_table -x  
fw tab -t ISAKMP_ESP_table -x  
fw tab -t inbound_SPI -x  
fw tab -t ISAKMP_AH_table -x
```

Rispondi sì al messaggio. .

Output di esempio del comando debug

Cisco VPN 3000 Concentrator

```
1 02/13/2001 14:21:28.530 SEV=8 IKEDECODE/0 RPT=180 172.18.124.157
```

```
ISAKMP HEADER : ( Version 1.0 )  
Initiator Cookie(8): EF 61 3C 27 07 74 1B 25  
Responder Cookie(8): 00 00 00 00 00 00 00 00  
Next Payload : SA (1)  
Exchange Type : Oakley Main Mode  
Flags : 0  
Message ID : 0  
Length : 164
```

```
7 02/13/2001 14:21:28.530 SEV=8 IKEDBG/0 RPT=406 172.18.124.157
```

```
RECEIVED Message (msgid=0) with payloads :  
HDR + SA (1) + VENDOR (13) + NONE (0) ... total length : 164
```

```
9 02/13/2001 14:21:28.530 SEV=9 IKEDBG/0 RPT=407 172.18.124.157
```

```
processing SA payload
```

```
10 02/13/2001 14:21:28.530 SEV=8 IKEDECODE/0 RPT=181 172.18.124.157
```

```
SA Payload Decode :  
DOI : IPSEC (1)  
Situation : Identity Only (1)  
Length : 92
```

```
13 02/13/2001 14:21:28.530 SEV=8 IKEDECODE/0 RPT=182 172.18.124.157
```

```
Proposal Decode:  
Proposal # : 1  
Protocol ID : ISAKMP (1)  
#of Transforms: 2  
Length : 80
```

16 02/13/2001 14:21:28.530 SEV=8 IKEDECODE/0 RPT=183 172.18.124.157

Transform # 1 Decode for Proposal # 1:

Transform # : 1
Transform ID : IKE (1)
Length : 36

18 02/13/2001 14:21:28.530 SEV=8 IKEDECODE/0 RPT=184 172.18.124.157

Phase 1 SA Attribute Decode for Transform # 1:

Encryption Alg: DES-CBC (1)
Hash Alg : SHA (2)
Auth Method : Preshared Key (1)
DH Group : Oakley Group 2 (2)
Life Time : 86400 seconds

23 02/13/2001 14:21:28.530 SEV=8 IKEDECODE/0 RPT=185 172.18.124.157

Transform # 2 Decode for Proposal # 1:

Transform # : 2
Transform ID : IKE (1)
Length : 36

25 02/13/2001 14:21:28.530 SEV=8 IKEDECODE/0 RPT=186 172.18.124.157

Phase 1 SA Attribute Decode for Transform # 2:

Encryption Alg: DES-CBC (1)
Hash Alg : SHA (2)
Auth Method : Preshared Key (1)
DH Group : Oakley Group 1 (1)
Life Time : 86400 seconds

30 02/13/2001 14:21:28.530 SEV=8 IKEDBG/0 RPT=408 172.18.124.157

Proposal # 1, Transform # 1, Type ISAKMP, Id IKE

Parsing received transform:

Phase 1 failure against global IKE proposal # 1:
Mismatched attr types for class DH Group:
Rcv'd: Oakley Group 2
Cfg'd: Oakley Group 1

35 02/13/2001 14:21:28.530 SEV=8 IKEDBG/0 RPT=409 172.18.124.157

Phase 1 failure against global IKE proposal # 2:

Mismatched attr types for class DH Group:
Rcv'd: Oakley Group 2
Cfg'd: Oakley Group 1

38 02/13/2001 14:21:28.530 SEV=8 IKEDBG/0 RPT=410 172.18.124.157

Phase 1 failure against global IKE proposal # 3:

Mismatched attr types for class Encryption Alg:
Rcv'd: DES-CBC
Cfg'd: Triple-DES

41 02/13/2001 14:21:28.530 SEV=7 IKEDBG/0 RPT=411 172.18.124.157

Oakley proposal is acceptable

42 02/13/2001 14:21:28.530 SEV=9 IKEDBG/1 RPT=107 172.18.124.157

processing vid payload

43 02/13/2001 14:21:28.530 SEV=9 IKEDBG/0 RPT=412 172.18.124.157

processing IKE SA

44 02/13/2001 14:21:28.530 SEV=8 IKEDBG/0 RPT=413 172.18.124.157

Proposal # 1, Transform # 1, Type ISAKMP, Id IKE

Parsing received transform:

Phase 1 failure against global IKE proposal # 1:
Mismatched attr types for class DH Group:
Rcv'd: Oakley Group 2

Cfg'd: Oakley Group 1

49 02/13/2001 14:21:28.530 SEV=8 IKEDBG/0 RPT=414 172.18.124.157
Phase 1 failure against global IKE proposal # 2:
Mismatched attr types for class DH Group:
Rcv'd: Oakley Group 2
Cfg'd: Oakley Group 1

52 02/13/2001 14:21:28.530 SEV=8 IKEDBG/0 RPT=415 172.18.124.157
Phase 1 failure against global IKE proposal # 3:
Mismatched attr types for class Encryption Alg:
Rcv'd: DES-CBC
Cfg'd: Triple-DES

55 02/13/2001 14:21:28.530 SEV=7 IKEDBG/28 RPT=3 172.18.124.157
IKE SA Proposal # 1, Transform # 2 acceptable
Matches global IKE entry # 1

56 02/13/2001 14:21:28.530 SEV=9 IKEDBG/0 RPT=416 172.18.124.157
constructing ISA_SA for isakmp

57 02/13/2001 14:21:28.530 SEV=8 IKEDBG/0 RPT=417 172.18.124.157
SENDING Message (msgid=0) with payloads :
HDR + SA (1) ... total length : 84

58 02/13/2001 14:21:28.630 SEV=8 IKEDECODE/0 RPT=187 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): EF 61 3C 27 07 74 1B 25
Responder Cookie(8): 24 18 40 A1 3B E4 95 26
Next Payload : KE (4)
Exchange Type : Oakley Main Mode
Flags : 0
Message ID : 0
Length : 152

64 02/13/2001 14:21:28.630 SEV=8 IKEDBG/0 RPT=418 172.18.124.157
RECEIVED Message (msgid=0) with payloads :
HDR + KE (4) + NONCE (10) + NONE (0) ... total length : 152

66 02/13/2001 14:21:28.630 SEV=8 IKEDBG/0 RPT=419 172.18.124.157
RECEIVED Message (msgid=0) with payloads :
HDR + KE (4) + NONCE (10) + NONE (0) ... total length : 152

68 02/13/2001 14:21:28.630 SEV=9 IKEDBG/0 RPT=420 172.18.124.157
processing ke payload

69 02/13/2001 14:21:28.630 SEV=9 IKEDBG/0 RPT=421 172.18.124.157
processing ISA_KE

70 02/13/2001 14:21:28.630 SEV=9 IKEDBG/1 RPT=108 172.18.124.157
processing nonce payload

71 02/13/2001 14:21:28.650 SEV=9 IKEDBG/0 RPT=422 172.18.124.157
constructing ke payload

72 02/13/2001 14:21:28.650 SEV=9 IKEDBG/1 RPT=109 172.18.124.157
constructing nonce payload

73 02/13/2001 14:21:28.650 SEV=9 IKEDBG/38 RPT=7 172.18.124.157
Constructing VPN 3000 spoofing IOS Vendor ID payload (version: 1.0.0, capabilities: 20000001)

75 02/13/2001 14:21:28.650 SEV=9 IKEDBG/1 RPT=110 172.18.124.157
constructing vid payload

76 02/13/2001 14:21:28.650 SEV=9 IKE/0 RPT=26 172.18.124.157

Generating keys for Responder...

77 02/13/2001 14:21:28.650 SEV=8 IKEDBG/0 RPT=423 172.18.124.157

SENDING Message (msgid=0) with payloads :

HDR + KE (4) ... total length : 192

78 02/13/2001 14:21:28.770 SEV=8 IKEDECODE/0 RPT=188 172.18.124.157

ISAKMP HEADER : (Version 1.0)

Initiator Cookie(8): EF 61 3C 27 07 74 1B 25

Responder Cookie(8): 24 18 40 A1 3B E4 95 26

Next Payload : ID (5)

Exchange Type : Oakley Main Mode

Flags : 1 (ENCRYPT)

Message ID : 0

Length : 68

84 02/13/2001 14:21:28.770 SEV=8 IKEDBG/0 RPT=424 172.18.124.157

RECEIVED Message (msgid=0) with payloads :

HDR + ID (5) + HASH (8) + NONE (0) ... total length : 64

86 02/13/2001 14:21:28.770 SEV=9 IKEDBG/1 RPT=111 172.18.124.157

Processing ID

87 02/13/2001 14:21:28.770 SEV=9 IKEDBG/0 RPT=425 172.18.124.157

processing hash

88 02/13/2001 14:21:28.770 SEV=9 IKEDBG/0 RPT=426 172.18.124.157

computing hash

89 02/13/2001 14:21:28.770 SEV=9 IKEDBG/23 RPT=7 172.18.124.157

Starting group lookup for peer 172.18.124.157

90 02/13/2001 14:21:28.870 SEV=7 IKEDBG/0 RPT=427 172.18.124.157

Found Phase 1 Group (172.18.124.157)

91 02/13/2001 14:21:28.870 SEV=7 IKEDBG/14 RPT=7 172.18.124.157

Authentication configured for Internal

92 02/13/2001 14:21:28.870 SEV=9 IKEDBG/1 RPT=112 172.18.124.157

constructing ID

93 02/13/2001 14:21:28.870 SEV=9 IKEDBG/0 RPT=428

construct hash payload

94 02/13/2001 14:21:28.870 SEV=9 IKEDBG/0 RPT=429 172.18.124.157

computing hash

95 02/13/2001 14:21:28.870 SEV=8 IKEDBG/0 RPT=430 172.18.124.157

SENDING Message (msgid=0) with payloads :

HDR + ID (5) ... total length : 64

96 02/13/2001 14:21:28.870 SEV=7 IKEDBG/0 RPT=431 172.18.124.157

Starting phase 1 rekey timer

97 02/13/2001 14:21:29.030 SEV=8 IKEDECODE/0 RPT=189 172.18.124.157

ISAKMP HEADER : (Version 1.0)

Initiator Cookie(8): EF 61 3C 27 07 74 1B 25

Responder Cookie(8): 24 18 40 A1 3B E4 95 26

Next Payload : HASH (8)

Exchange Type : Oakley Quick Mode

Flags : 1 (ENCRYPT)

Message ID : 7755aa11
Length : 164

104 02/13/2001 14:21:29.030 SEV=8 IKEDBG/0 RPT=432 172.18.124.157
RECEIVED Message (msgid=7755aa11) with payloads :
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) + NONE (0) ... total length : 160

107 02/13/2001 14:21:29.030 SEV=9 IKEDBG/0 RPT=433 172.18.124.157
processing hash

108 02/13/2001 14:21:29.030 SEV=9 IKEDBG/0 RPT=434 172.18.124.157
processing SA payload

109 02/13/2001 14:21:29.030 SEV=8 IKEDECODE/0 RPT=190 172.18.124.157
SA Payload Decode :
DOI : IPSEC (1)
Situation : Identity Only (1)
Length : 52

112 02/13/2001 14:21:29.030 SEV=8 IKEDECODE/0 RPT=191 172.18.124.157
Proposal Decode:
Proposal # : 1
Protocol ID : ESP (3)
#of Transforms: 1
Spi : DA 16 3F E3
Length : 40

116 02/13/2001 14:21:29.030 SEV=8 IKEDECODE/0 RPT=192 172.18.124.157
Transform # 1 Decode for Proposal # 1:
Transform # : 1
Transform ID : DES-CBC (2)
Length : 28

118 02/13/2001 14:21:29.030 SEV=8 IKEDECODE/0 RPT=193 172.18.124.157
Phase 2 SA Attribute Decode for Transform # 1:
Life Time : 28800 seconds
HMAC Algorithm: SHA (2)
Encapsulation : Tunnel (1)

121 02/13/2001 14:21:29.030 SEV=9 IKEDBG/1 RPT=113 172.18.124.157
processing nonce payload

122 02/13/2001 14:21:29.030 SEV=9 IKEDBG/1 RPT=114 172.18.124.157
Processing ID

123 02/13/2001 14:21:29.030 SEV=5 IKE/35 RPT=14 172.18.124.157
Received remote IP Proxy Subnet data in ID Payload:
Address 10.32.50.0, Mask 255.255.255.0, Protocol 0, Port 0

125 02/13/2001 14:21:29.030 SEV=9 IKEDBG/1 RPT=115 172.18.124.157
Processing ID

126 02/13/2001 14:21:29.030 SEV=5 IKE/34 RPT=14 172.18.124.157
Received local IP Proxy Subnet data in ID Payload:
Address 192.168.1.0, Mask 255.255.255.0, Protocol 0, Port 0

128 02/13/2001 14:21:29.030 SEV=5 IKE/66 RPT=4 172.18.124.157
IKE Remote Peer configured for SA: L2L: to_checkpoint

129 02/13/2001 14:21:29.030 SEV=9 IKEDBG/0 RPT=435 172.18.124.157
processing IPSEC SA

130 02/13/2001 14:21:29.030 SEV=7 IKEDBG/27 RPT=1 172.18.124.157

IPSec SA Proposal # 1, Transform # 1 acceptable

131 02/13/2001 14:21:29.030 SEV=7 IKEDBG/0 RPT=436 172.18.124.157
IKE: requesting SPI!

132 02/13/2001 14:21:29.030 SEV=8 IKEDBG/6 RPT=6
IKE got SPI from key engine: SPI = 0x4d6e483f

133 02/13/2001 14:21:29.030 SEV=9 IKEDBG/0 RPT=437 172.18.124.157
oakley constructing quick mode

134 02/13/2001 14:21:29.030 SEV=9 IKEDBG/0 RPT=438 172.18.124.157
constructing blank hash

135 02/13/2001 14:21:29.030 SEV=9 IKEDBG/0 RPT=439 172.18.124.157
constructing ISA_SA for ipsec

136 02/13/2001 14:21:29.030 SEV=9 IKEDBG/1 RPT=116 172.18.124.157
constructing ipsec nonce payload

137 02/13/2001 14:21:29.030 SEV=9 IKEDBG/1 RPT=117 172.18.124.157
constructing proxy ID

138 02/13/2001 14:21:29.030 SEV=7 IKEDBG/0 RPT=440 172.18.124.157
Transmitting Proxy Id:
Remote subnet: 10.32.50.0 Mask 255.255.255.0 Protocol 0 Port 0
Local subnet: 192.168.1.0 mask 255.255.255.0 Protocol 0 Port 0

141 02/13/2001 14:21:29.030 SEV=9 IKEDBG/0 RPT=441 172.18.124.157
constructing qm hash

142 02/13/2001 14:21:29.030 SEV=8 IKEDBG/0 RPT=442 172.18.124.157
SENDING Message (msgid=7755aa11) with payloads :
HDR + HASH (8) ... total length : 156

144 02/13/2001 14:21:29.270 SEV=8 IKEDECODE/0 RPT=194 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): EF 61 3C 27 07 74 1B 25
Responder Cookie(8): 24 18 40 A1 3B E4 95 26
Next Payload : HASH (8)
Exchange Type : Oakley Quick Mode
Flags : 1 (ENCRYPT)
Message ID : 7755aa11
Length : 60

151 02/13/2001 14:21:29.270 SEV=8 IKEDBG/0 RPT=443 172.18.124.157
RECEIVED Message (msgid=7755aa11) with payloads :
HDR + HASH (8) + NONE (0) ... total length : 52

153 02/13/2001 14:21:29.270 SEV=9 IKEDBG/0 RPT=444 172.18.124.157
processing hash

154 02/13/2001 14:21:29.270 SEV=9 IKEDBG/0 RPT=445 172.18.124.157
loading all IPSEC SAs

155 02/13/2001 14:21:29.270 SEV=9 IKEDBG/1 RPT=118 172.18.124.157
Generating Quick Mode Key!

156 02/13/2001 14:21:29.270 SEV=9 IKEDBG/1 RPT=119 172.18.124.157
Generating Quick Mode Key!

157 02/13/2001 14:21:29.270 SEV=7 IKEDBG/0 RPT=446 172.18.124.157
Loading subnet:
Dst: 192.168.1.0 mask: 255.255.255.0

Src: 10.32.50.0 mask: 255.255.255.0

159 02/13/2001 14:21:29.270 SEV=4 IKE/49 RPT=6 172.18.124.157
Security negotiation complete for LAN-to-LAN Group (172.18.124.157)
Responder, Inbound SPI = 0x4d6e483f, Outbound SPI = 0xda163fe3

161 02/13/2001 14:21:29.270 SEV=8 IKEDBG/7 RPT=6
IKE got a KEY_ADD msg for SA: SPI = 0xda163fe3

162 02/13/2001 14:21:29.270 SEV=8 IKEDBG/0 RPT=447
pitcher: rcv KEY_UPDATE, spi 0x4d6e483f

163 02/13/2001 14:21:29.670 SEV=8 IKEDECODE/0 RPT=195 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): EF 61 3C 27 07 74 1B 25
Responder Cookie(8): 24 18 40 A1 3B E4 95 26
Next Payload : HASH (8)
Exchange Type : Oakley Quick Mode
Flags : 1 (ENCRYPT)
Message ID : 7755aa11
Length : 60

170 02/13/2001 14:21:29.670 SEV=6 IKE/0 RPT=27 172.18.124.157
Duplicate Phase 2 packet detected!

171 02/13/2001 14:21:29.760 SEV=8 IKEDECODE/0 RPT=196 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): EF 61 3C 27 07 74 1B 25
Responder Cookie(8): 24 18 40 A1 3B E4 95 26
Next Payload : HASH (8)
Exchange Type : Oakley Quick Mode
Flags : 1 (ENCRYPT)
Message ID : 7755aa11
Length : 60

178 02/13/2001 14:21:29.760 SEV=6 IKE/0 RPT=28 172.18.124.157
Duplicate Phase 2 packet detected!

179 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=448
pitcher: rcv KEY_SA_ACTIVE spi 0x4d6e483f

180 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=449
KEY_SA_ACTIVE old rekey centry found with new spi 0x4d6e483f

181 02/13/2001 14:21:29.880 SEV=7 IKEDBG/9 RPT=5 172.18.124.157
IKE Deleting SA: Remote Proxy 10.32.50.0, Local Proxy 192.168.1.0

182 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=450 172.18.124.157
IKE SA MM:f2ea8e68 rcv'd Terminate: state MM_ACTIVE_REKEY
flags 0x000000e6, refcnt 1, tuncnt 0

184 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=451 172.18.124.157
IKE SA MM:f2ea8e68 terminating:
flags 0x000000a6, refcnt 0, tuncnt 0

185 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=452
sending delete message

186 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=453 172.18.124.157
constructing blank hash

187 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=454
constructing delete payload

188 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=455 172.18.124.157
constructing qm hash

189 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=456 172.18.124.157
SENDING Message (msgid=87b7c1a4) with payloads :
HDR + HASH (8) ... total length : 80

191 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=457 172.18.124.157
IKE SA MM:241840a1 rcv'd Terminate: state MM_REKEY_DONE
flags 0x00000082, refcnt 1, tuncnt 1

193 02/13/2001 14:21:29.880 SEV=6 IKE/0 RPT=29 172.18.124.157
Removing peer from peer table failed, no match!

194 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=458
sending delete message

195 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=459 172.18.124.157
constructing blank hash

196 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=460
constructing ipsec delete payload

197 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=461 172.18.124.157
constructing qm hash

198 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=462 172.18.124.157
SENDING Message (msgid=63f2abb8) with payloads :
HDR + HASH (8) ... total length : 68

200 02/13/2001 14:21:29.880 SEV=7 IKEDBG/9 RPT=6 172.18.124.157
IKE Deleting SA: Remote Proxy 10.32.50.0, Local Proxy 192.168.1.0

201 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=463 172.18.124.157
IKE SA MM:241840a1 terminating:
flags 0x00000082, refcnt 0, tuncnt 0

202 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=464
sending delete message

203 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=465 172.18.124.157
constructing blank hash

204 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=466
constructing delete payload

205 02/13/2001 14:21:29.880 SEV=9 IKEDBG/0 RPT=467 172.18.124.157
constructing qm hash

206 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=468 172.18.124.157
SENDING Message (msgid=d6a00071) with payloads :
HDR + HASH (8) ... total length : 80

208 02/13/2001 14:21:29.880 SEV=4 AUTH/22 RPT=13
User 172.18.124.157 disconnected

209 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=469
pitcher: received key delete msg, spi 0x2962069b

210 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=470
pitcher: received key delete msg, spi 0xda163fe2

211 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=471
pitcher: received key delete msg, spi 0x4d6e483f

212 02/13/2001 14:21:29.880 SEV=8 IKEDBG/0 RPT=472
pitcher: received key delete msg, spi 0xda163fe3

213 02/13/2001 14:21:29.890 SEV=8 IKEDBG/0 RPT=473
pitcher: received a key acquire message!

214 02/13/2001 14:21:29.890 SEV=4 IKE/41 RPT=6 172.18.124.157
IKE Initiator: New Phase 1, Intf 2, IKE Peer 172.18.124.157
local Proxy Address 192.168.1.0, remote Proxy Address 10.32.50.0,
SA (L2L: to_checkpoint)

217 02/13/2001 14:21:29.890 SEV=9 IKEDBG/0 RPT=474 172.18.124.157
constructing ISA_SA for isakmp

218 02/13/2001 14:21:29.890 SEV=8 IKEDBG/0 RPT=475 172.18.124.157
SENDING Message (msgid=0) with payloads :
HDR + SA (1) ... total length : 84

219 02/13/2001 14:21:30.430 SEV=8 IKEDECODE/0 RPT=197 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): FE 75 39 26 66 21 F6 F8
Responder Cookie(8): 67 1D 73 71 AE 2B 88 2E
Next Payload : SA (1)
Exchange Type : Oakley Main Mode
Flags : 0
Message ID : 0
Length : 84

225 02/13/2001 14:21:30.430 SEV=8 IKEDBG/0 RPT=476 172.18.124.157
RECEIVED Message (msgid=0) with payloads :
HDR + SA (1) + NONE (0) ... total length : 84

227 02/13/2001 14:21:30.430 SEV=8 IKEDBG/0 RPT=477 172.18.124.157
RECEIVED Message (msgid=0) with payloads :
HDR + SA (1) + NONE (0) ... total length : 84

229 02/13/2001 14:21:30.430 SEV=9 IKEDBG/0 RPT=478 172.18.124.157
processing SA payload

230 02/13/2001 14:21:30.430 SEV=8 IKEDECODE/0 RPT=198 172.18.124.157
SA Payload Decode :
DOI : IPSEC (1)
Situation : Identity Only (1)
Length : 56

233 02/13/2001 14:21:30.430 SEV=8 IKEDECODE/0 RPT=199 172.18.124.157
Proposal Decode:
Proposal # : 1
Protocol ID : ISAKMP (1)
#of Transforms: 1
Length : 44

236 02/13/2001 14:21:30.430 SEV=8 IKEDECODE/0 RPT=200 172.18.124.157
Transform # 1 Decode for Proposal # 1:
Transform # : 1
Transform ID : IKE (1)
Length : 36

238 02/13/2001 14:21:30.440 SEV=8 IKEDECODE/0 RPT=201 172.18.124.157
Phase 1 SA Attribute Decode for Transform # 1:
Encryption Alg: DES-CBC (1)
Hash Alg : SHA (2)
DH Group : Oakley Group 1 (1)

Auth Method : Preshared Key (1)
Life Time : 86400 seconds

243 02/13/2001 14:21:30.440 SEV=7 IKEDBG/0 RPT=479 172.18.124.157
Oakley proposal is acceptable

244 02/13/2001 14:21:30.440 SEV=9 IKEDBG/0 RPT=480 172.18.124.157
constructing ke payload

245 02/13/2001 14:21:30.440 SEV=9 IKEDBG/1 RPT=120 172.18.124.157
constructing nonce payload

246 02/13/2001 14:21:30.440 SEV=9 IKEDBG/38 RPT=8 172.18.124.157
Constructing VPN 3000 spoofing IOS Vendor ID payload (version: 1.0.0, capabilities: 20000001)

248 02/13/2001 14:21:30.440 SEV=9 IKEDBG/1 RPT=121 172.18.124.157
constructing vid payload

249 02/13/2001 14:21:30.440 SEV=8 IKEDBG/0 RPT=481 172.18.124.157
SENDING Message (msgid=0) with payloads :
HDR + KE (4) ... total length : 192

250 02/13/2001 14:21:30.540 SEV=8 IKEDECODE/0 RPT=202 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): FE 75 39 26 66 21 F6 F8
Responder Cookie(8): 67 1D 73 71 AE 2B 88 2E
Next Payload : KE (4)
Exchange Type : Oakley Main Mode
Flags : 0
Message ID : 0
Length : 152

256 02/13/2001 14:21:30.540 SEV=8 IKEDBG/0 RPT=482 172.18.124.157
RECEIVED Message (msgid=0) with payloads :
HDR + KE (4) + NONCE (10) + NONE (0) ... total length : 152

258 02/13/2001 14:21:30.540 SEV=8 IKEDBG/0 RPT=483 172.18.124.157
RECEIVED Message (msgid=0) with payloads :
HDR + KE (4) + NONCE (10) + NONE (0) ... total length : 152

260 02/13/2001 14:21:30.540 SEV=9 IKEDBG/0 RPT=484 172.18.124.157
processing ke payload

261 02/13/2001 14:21:30.540 SEV=9 IKEDBG/0 RPT=485 172.18.124.157
processing ISA_KE

262 02/13/2001 14:21:30.540 SEV=9 IKEDBG/1 RPT=122 172.18.124.157
processing nonce payload

263 02/13/2001 14:21:30.560 SEV=9 IKE/0 RPT=30 172.18.124.157
Generating keys for Initiator...

264 02/13/2001 14:21:30.570 SEV=9 IKEDBG/1 RPT=123 172.18.124.157
constructing ID

265 02/13/2001 14:21:30.570 SEV=9 IKEDBG/0 RPT=486
construct hash payload

266 02/13/2001 14:21:30.570 SEV=9 IKEDBG/0 RPT=487 172.18.124.157
computing hash

267 02/13/2001 14:21:30.570 SEV=8 IKEDBG/0 RPT=488 172.18.124.157
SENDING Message (msgid=0) with payloads :

HDR + ID (5) ... total length : 64

268 02/13/2001 14:21:30.740 SEV=8 IKEDECODE/0 RPT=203 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): FE 75 39 26 66 21 F6 F8
Responder Cookie(8): 67 1D 73 71 AE 2B 88 2E
Next Payload : ID (5)
Exchange Type : Oakley Main Mode
Flags : 1 (ENCRYPT)
Message ID : 0
Length : 68

274 02/13/2001 14:21:30.740 SEV=8 IKEDBG/0 RPT=489 172.18.124.157
RECEIVED Message (msgid=0) with payloads :
HDR + ID (5) + HASH (8) + NONE (0) ... total length : 64

276 02/13/2001 14:21:30.740 SEV=9 IKEDBG/1 RPT=124 172.18.124.157
Processing ID

277 02/13/2001 14:21:30.740 SEV=9 IKEDBG/0 RPT=490 172.18.124.157
processing hash

278 02/13/2001 14:21:30.740 SEV=9 IKEDBG/0 RPT=491 172.18.124.157
computing hash

279 02/13/2001 14:21:30.740 SEV=9 IKEDBG/23 RPT=8 172.18.124.157
Starting group lookup for peer 172.18.124.157

280 02/13/2001 14:21:30.830 SEV=8 IKEDECODE/0 RPT=204 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): FE 75 39 26 66 21 F6 F8
Responder Cookie(8): 67 1D 73 71 AE 2B 88 2E
Next Payload : ID (5)
Exchange Type : Oakley Main Mode
Flags : 1 (ENCRYPT)
Message ID : 0
Length : 68

286 02/13/2001 14:21:30.830 SEV=6 IKE/0 RPT=31 172.18.124.157
Duplicate Phase 1 packet detected!

287 02/13/2001 14:21:30.830 SEV=6 IKE/0 RPT=32
MM received unexpected event EV_RESEND_MSG in state MM_I_DONE

288 02/13/2001 14:21:30.840 SEV=7 IKEDBG/0 RPT=492 172.18.124.157
Found Phase 1 Group (172.18.124.157)

289 02/13/2001 14:21:30.840 SEV=7 IKEDBG/14 RPT=8 172.18.124.157
Authentication configured for Internal

290 02/13/2001 14:21:30.840 SEV=9 IKEDBG/0 RPT=493 172.18.124.157
Oakley begin quick mode

291 02/13/2001 14:21:30.840 SEV=7 IKEDBG/0 RPT=494 172.18.124.157
Starting phase 1 rekey timer

292 02/13/2001 14:21:30.840 SEV=4 AUTH/21 RPT=15
User 172.18.124.157 connected

293 02/13/2001 14:21:30.840 SEV=8 IKEDBG/6 RPT=7
IKE got SPI from key engine: SPI = 0x08201539

294 02/13/2001 14:21:30.840 SEV=9 IKEDBG/0 RPT=495 172.18.124.157
oakley constucting quick mode

295 02/13/2001 14:21:30.840 SEV=9 IKEDBG/0 RPT=496 172.18.124.157
constructing blank hash

296 02/13/2001 14:21:30.840 SEV=9 IKEDBG/0 RPT=497 172.18.124.157
constructing ISA_SA for ipsec

297 02/13/2001 14:21:30.840 SEV=9 IKEDBG/1 RPT=125 172.18.124.157
constructing ipsec nonce payload

298 02/13/2001 14:21:30.840 SEV=9 IKEDBG/1 RPT=126 172.18.124.157
constructing proxy ID

299 02/13/2001 14:21:30.840 SEV=7 IKEDBG/0 RPT=498 172.18.124.157
Transmitting Proxy Id:
Local subnet: 192.168.1.0 mask 255.255.255.0 Protocol 0 Port 0
Remote subnet: 10.32.50.0 Mask 255.255.255.0 Protocol 0 Port 0

302 02/13/2001 14:21:30.840 SEV=9 IKEDBG/0 RPT=499 172.18.124.157
constructing qm hash

303 02/13/2001 14:21:30.840 SEV=8 IKEDBG/0 RPT=500 172.18.124.157
SENDING Message (msgid=23bc1709) with payloads :
HDR + HASH (8) ... total length : 184

305 02/13/2001 14:21:31.000 SEV=8 IKEDECODE/0 RPT=205 172.18.124.157
ISAKMP HEADER : (Version 1.0)
Initiator Cookie(8): FE 75 39 26 66 21 F6 F8
Responder Cookie(8): 67 1D 73 71 AE 2B 88 2E
Next Payload : HASH (8)
Exchange Type : Oakley Quick Mode
Flags : 1 (ENCRYPT)
Message ID : 23bc1709
Length : 164

312 02/13/2001 14:21:31.000 SEV=8 IKEDBG/0 RPT=501 172.18.124.157
RECEIVED Message (msgid=23bc1709) with payloads :
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) + NONE (0) ... total leng
th : 156

315 02/13/2001 14:21:31.000 SEV=9 IKEDBG/0 RPT=502 172.18.124.157
processing hash

316 02/13/2001 14:21:31.000 SEV=9 IKEDBG/0 RPT=503 172.18.124.157
processing SA payload

317 02/13/2001 14:21:31.000 SEV=8 IKEDECODE/0 RPT=206 172.18.124.157
SA Payload Decode :
DOI : IPSEC (1)
Situation : Identity Only (1)
Length : 48

320 02/13/2001 14:21:31.000 SEV=8 IKEDECODE/0 RPT=207 172.18.124.157
Proposal Decode:
Proposal # : 1
Protocol ID : ESP (3)
#of Transforms: 1
Spi : DA 16 3F E4
Length : 36

324 02/13/2001 14:21:31.000 SEV=8 IKEDECODE/0 RPT=208 172.18.124.157
Transform # 1 Decode for Proposal # 1:
Transform # : 1
Transform ID : DES-CBC (2)

Length : 24

326 02/13/2001 14:21:31.000 SEV=8 IKEDECODE/0 RPT=209 172.18.124.157
Phase 2 SA Attribute Decode for Transform # 1:
Life Time : 28800 seconds
Encapsulation : Tunnel (1)
HMAC Algorithm: SHA (2)

329 02/13/2001 14:21:31.000 SEV=9 IKEDBG/1 RPT=127 172.18.124.157
processing nonce payload

330 02/13/2001 14:21:31.000 SEV=9 IKEDBG/1 RPT=128 172.18.124.157
Processing ID

331 02/13/2001 14:21:31.000 SEV=9 IKEDBG/1 RPT=129 172.18.124.157
Processing ID

332 02/13/2001 14:21:31.000 SEV=9 IKEDBG/0 RPT=504 172.18.124.157
loading all IPSEC SAs

333 02/13/2001 14:21:31.000 SEV=9 IKEDBG/1 RPT=130 172.18.124.157
Generating Quick Mode Key!

334 02/13/2001 14:21:31.010 SEV=9 IKEDBG/1 RPT=131 172.18.124.157
Generating Quick Mode Key!

335 02/13/2001 14:21:31.010 SEV=7 IKEDBG/0 RPT=505 172.18.124.157
Loading subnet:
Dst: 10.32.50.0 mask: 255.255.255.0
Src: 192.168.1.0 mask: 255.255.255.0

337 02/13/2001 14:21:31.010 SEV=4 IKE/49 RPT=7 172.18.124.157
Security negotiation complete for LAN-to-LAN Group (172.18.124.157)
Initiator, Inbound SPI = 0x08201539, Outbound SPI = 0xda163fe4

339 02/13/2001 14:21:31.010 SEV=9 IKEDBG/0 RPT=506 172.18.124.157
oakley constructing final quick mode

340 02/13/2001 14:21:31.010 SEV=8 IKEDBG/0 RPT=507 172.18.124.157
SENDING Message (msgid=23bc1709) with payloads :
HDR + HASH (8) ... total length : 76

342 02/13/2001 14:21:31.010 SEV=8 IKEDBG/7 RPT=7
IKE got a KEY_ADD msg for SA: SPI = 0xda163fe4

343 02/13/2001 14:21:31.010 SEV=8 IKEDBG/0 RPT=508
pitcher: rcv KEY_UPDATE, spi 0x8201539

344 02/13/2001 14:21:31.890 SEV=8 IKEDBG/0 RPT=509
pitcher: recv KEY_SA_ACTIVE spi 0x8201539

345 02/13/2001 14:21:31.890 SEV=8 IKEDBG/0 RPT=510
KEY_SA_ACTIVE no old rekey centry found with new spi 0x8201539, mess_id 0x0

[Informazioni correlate](#)

- [Negoziazione IPsec/protocolli IKE](#)
- [Documentazione e supporto tecnico – Cisco Systems](#)