解決方案：如何使動態L2L隧道落入不同的隧道組

目錄

簡介

本文提供有關如何使動態L2L隧道落入不同隧道組的資訊。

必要條件

需求

本文件沒有特定需求。

採用元件

本文件所述內容不限於特定軟體和硬體版本。

慣例

如需文件慣例的詳細資訊，請參閱思科技術提示慣例。

症狀

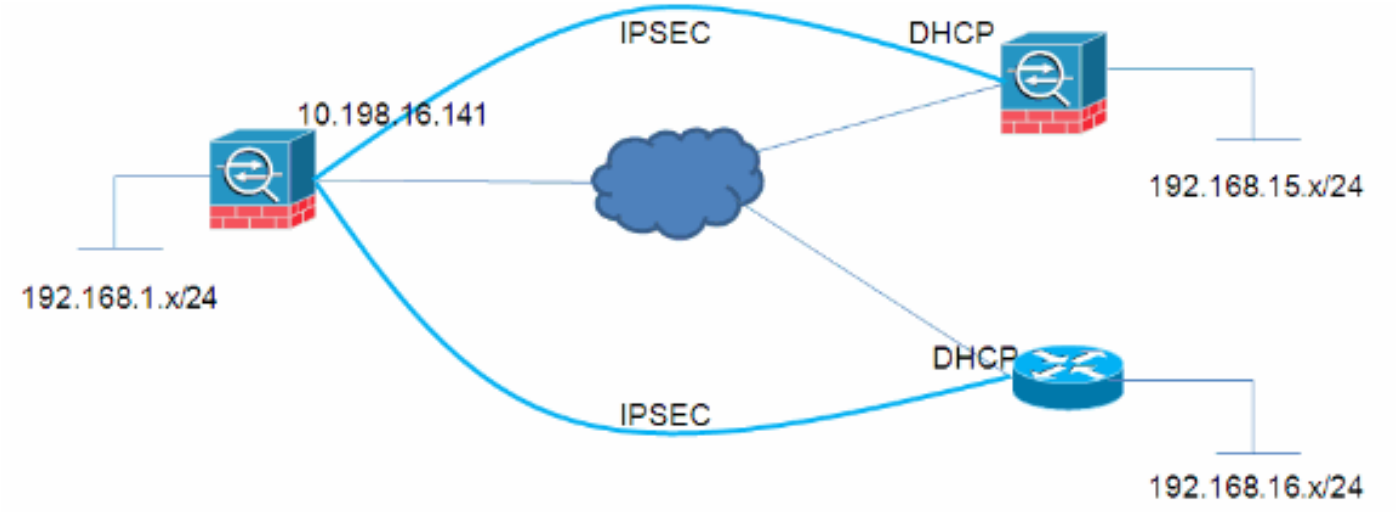
在本文檔的示例中，網路管理員需要建立VPN策略，其中連線到集線器的不同遠端VPN分支應連線到單獨的隧道組，以便可以將不同的VPN策略應用到每個遠端連線。

原因/問題描述

在動態L2L隧道中，隧道（啟動器）的一側有一個動態IP地址。由於接收方不知道它們來自哪個IP地

址，因此與靜態L2L隧道不同，不同的對等方會自動歸入預設L2L組。但是，在某些情況下，這是不可接受的，使用者可能需要為每個對等體分配不同的組策略或預共用金鑰。

條件/環境



解析

這可以通過以下兩種方式實現：

- **憑證**ASA上的隧道組查詢過程將基於輻條顯示的證書欄位來確定連線。

```
no tunnel-group-map enable rules
tunnel-group-map enable ou
tunnel-group-map enable ike-id
tunnel-group-map enable peer-ip
tunnel-group-map default-group DefaultRAGroup
```

- **PSK和主動模式**並非所有使用者都有PKI基礎設施。但是，仍可以使用攻擊性模式引數完成相同的工作，如下所述：**中心**

```
crypto ipsec transform-set myset esp-3des esp-sha-hmac
crypto ipsec security-association lifetime seconds 28800
crypto ipsec security-association lifetime kilobytes 4608000
crypto dynamic-map mydyn 10 set transform-set myset
crypto map mymap 65535 ipsec-isakmp dynamic mydyn
crypto map mymap interface outside

crypto isakmp enable outside
crypto isakmp policy 10
 authentication pre-share
 encryption 3des
 hash sha
 group 2
 lifetime 86400

tunnel-group SPOKE1 type ipsec-l2l
tunnel-group SPOKE1 ipsec-attributes
 pre-shared-key cisco123
tunnel-group SPOKE2 type ipsec-l2l
tunnel-group SPOKE2 ipsec-attributes
 pre-shared-key cisco456
```

輻條1

```
access-list interesting extended permit ip
192.168.15.0 255.255.255.0 192.168.1.0 255.255.255.0
```

```
crypto ipsec transform-set myset esp-3des esp-sha-hmac
crypto ipsec security-association lifetime seconds 28800
crypto ipsec security-association lifetime kilobytes 4608000
crypto map mymap 10 match address interesting
crypto map mymap 10 set peer 10.198.16.141
crypto map mymap 10 set transform-set myset
crypto map mymap 10 set phase1-mode aggressive
crypto map mymap interface outside
crypto isakmp identity key-id SPOKE1
crypto isakmp enable outside
crypto isakmp policy 10
 authentication pre-share
 encryption 3des
 hash sha
 group 2
 lifetime 86400

tunnel-group 10.198.16.141 type ipsec-l2l
tunnel-group 10.198.16.141 ipsec-attributes
 pre-shared-key cisco123
```

輻條2

```
ip access-list extended interesting
 permit ip 192.168.16.0 0.0.0.255 192.168.1.0 0.0.0.255

crypto isakmp policy 10
 encr 3des
 authentication pre-share
 group 2

crypto isakmp peer address 10.198.16.141
 set aggressive-mode password cisco456
 set aggressive-mode client-endpoint fqdn SPOKE2

crypto ipsec transform-set myset esp-3des esp-sha-hmac

crypto map mymap 10 ipsec-isakmp
 set peer 10.198.16.141
 set transform-set myset
 match address interesting

interface FastEthernet0/0
 crypto map mymap
```

集線器驗證

```
Session Type: LAN-to-LAN Detailed

Connection   : SPOKE2
Index        : 59                    IP Addr      : 10.198.16.132
Protocol     : IKE IPsec
Encryption   : 3DES                  Hashing      : SHA1
Bytes Tx     : 400                   Bytes Rx     : 400
Login Time   : 23:45:00 UTC Thu Oct 27 2011
Duration     : 0h:00m:18s
IKE Tunnels: 1
IPsec Tunnels: 1

IKE:
  Tunnel ID    : 59.1
  UDP Src Port : 500                   UDP Dst Port : 500
  IKE Neg Mode : Aggressive            Auth Mode    : preSharedKeys
  Encryption   : 3DES                  Hashing      : SHA1
  Rekey Int (T): 86400 Seconds         Rekey Left(T): 86381 Seconds
  D/H Group    : 2
```

```
  Filter Name  :

IPsec:
  Tunnel ID    : 59.2
  Local Addr   : 192.168.1.0/255.255.255.0/0/0
  Remote Addr  : 192.168.16.0/255.255.255.0/0/0
  Encryption   : 3DES                  Hashing      : SHA1
  Encapsulation: Tunnel
  Rekey Int (T): 3600 Seconds          Rekey Left(T): 3581 Seconds
  Rekey Int (D): 4608000 K-Bytes       Rekey Left(D): 4608000 K-Bytes
  Idle Time Out: 30 Minutes            Idle TO Left : 29 Minutes
  Bytes Tx     : 400                   Bytes Rx     : 400
  Pkts Tx      : 4                     Pkts Rx      : 4

NAC:
  Reval Int (T): 0 Seconds             Reval Left(T): 0 Seconds
  SQ Int (T)   : 0 Seconds             EoU Age(T)   : 21 Seconds
  Hold Left (T): 0 Seconds             Posture Token:
  Redirect URL :

Connection   : SPOKE1
Index        : 60                    IP Addr      : 10.198.16.142
Protocol     : IKE IPsec
Encryption   : 3DES                  Hashing      : SHA1
Bytes Tx     : 400                   Bytes Rx     : 400
Login Time   : 23:45:12 UTC Thu Oct 27 2011
Duration     : 0h:00m:08s
IKE Tunnels: 1
IPsec Tunnels: 1

IKE:
  Tunnel ID    : 60.1
  UDP Src Port : 500                   UDP Dst Port : 500
  IKE Neg Mode : Aggressive            Auth Mode    : preSharedKeys
  Encryption   : 3DES                  Hashing      : SHA1
  Rekey Int (T): 86400 Seconds         Rekey Left(T): 86391 Seconds
  D/H Group    : 2
  Filter Name  :

IPsec:
  Tunnel ID    : 60.2
  Local Addr   : 192.168.1.0/255.255.255.0/0/0
  Remote Addr  : 192.168.15.0/255.255.255.0/0/0
  Encryption   : 3DES                  Hashing      : SHA1
  Encapsulation: Tunnel
  Rekey Int (T): 28800 Seconds         Rekey Left(T): 28791 Seconds
  Rekey Int (D): 4608000 K-Bytes       Rekey Left(D): 4608000 K-Bytes
  Idle Time Out: 30 Minutes            Idle TO Left : 29 Minutes
  Bytes Tx     : 400                   Bytes Rx     : 400
  Pkts Tx      : 4                     Pkts Rx      : 4

NAC:
  Reval Int (T): 0 Seconds             Reval Left(T): 0 Seconds
  SQ Int (T)   : 0 Seconds             EoU Age(T)   : 9 Seconds
  Hold Left (T): 0 Seconds             Posture Token:
  Redirect URL :
```

相關資訊

- 技術支援與文件 - Cisco Systems