

# 配置 Cisco VPN 3000 集中器以阻断过滤器与 RADIUS 过滤器分配

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## 简介

在此配置示例中，我们只要使用过滤器允许用户访问一个服务器(10.1.1.2)在网络里面和阻止对其他资源的访问。Cisco VPN 3000集中器可以设置用过滤器控制IPsec、点对点隧道协议(PPTP)和L2TP访客接入对网络资源。过滤器包括规则，类似于在路由器的访问列表。如果路由器配置为：

```
access-list 101 permit ip any host 10.1.1.2
access-list 101 deny ip any any
```

VPN集中器等同是设置有规则的一个过滤器。

我们的第一个VPN集中器规则是**permit\_server\_rule**，与路由器的**permit ip**是等同的所有主机**10.1.1.2**命令。与**deny ip any any**命令的路由器的是等同的我们的第二个VPN集中器规则是**deny\_server\_rule**。

我们的VPN集中器过滤器是**filter\_with\_2\_rules**，与路由器的101访问列表是等同的;它使用**permit\_server\_rule**和**deny\_server\_rule** (按该顺序)。假设，客户端能在添加过滤器之前正确连接;他们收到他们的从一个池的IP地址VPN集中器的。

有关如何配置远程访问服务器以及限制访问的更多信息，请参阅 [PIX/ASA 7.x ASDM：限制远程访问VPN用户网络访问](#)为了得知更多PIX/ASA 7.x块从VPN用户的访问的方案。

## 先决条件

## 要求

本文档没有任何特定的要求。

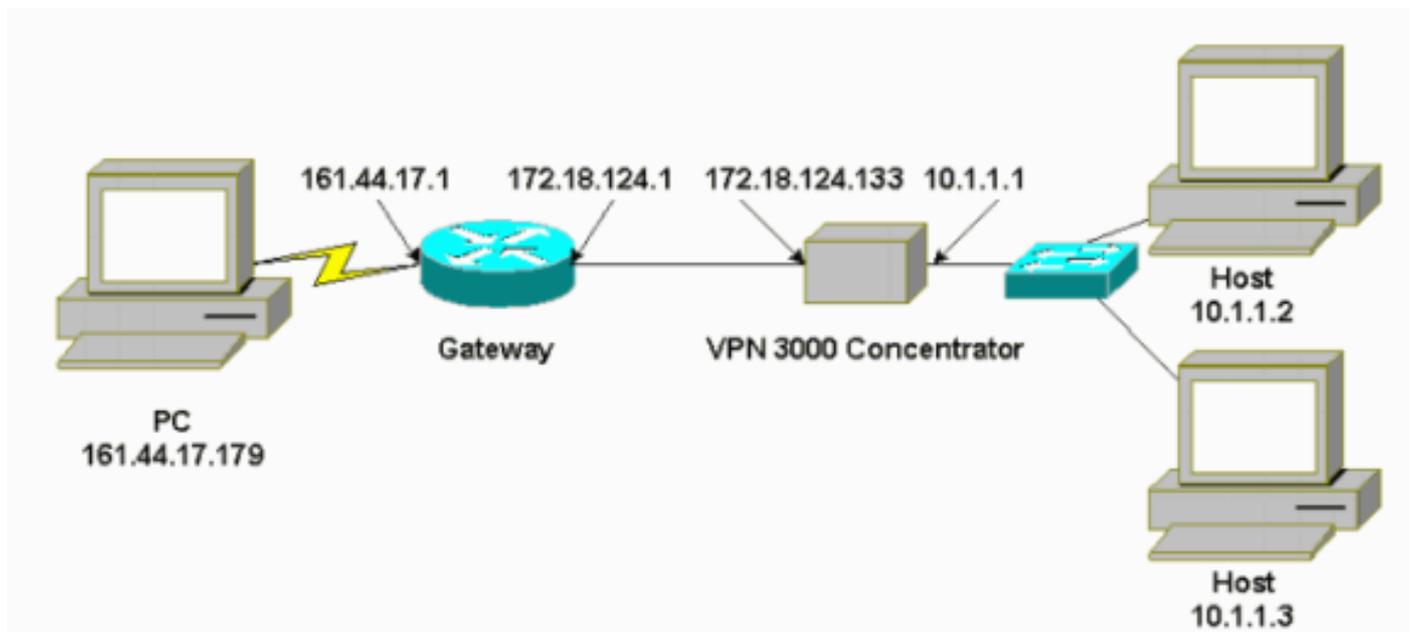
## 使用的组件

本文档中的信息根据Cisco VPN 3000集中器版本2.5.2.D。

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](#)。

## VPN 3000 配置

完成这些步骤为了配置VPN 3000集中器。

1. 选择**配置>Policy Management>流量管理>规则>Add**并且定义与这些设置的第一个VPN集中器规则呼叫的**permit\_server\_rule**：方向—入站操作—前言源地址—255.255.255.255目的地址—10.1.1.2通配符掩码—0.0.0.0

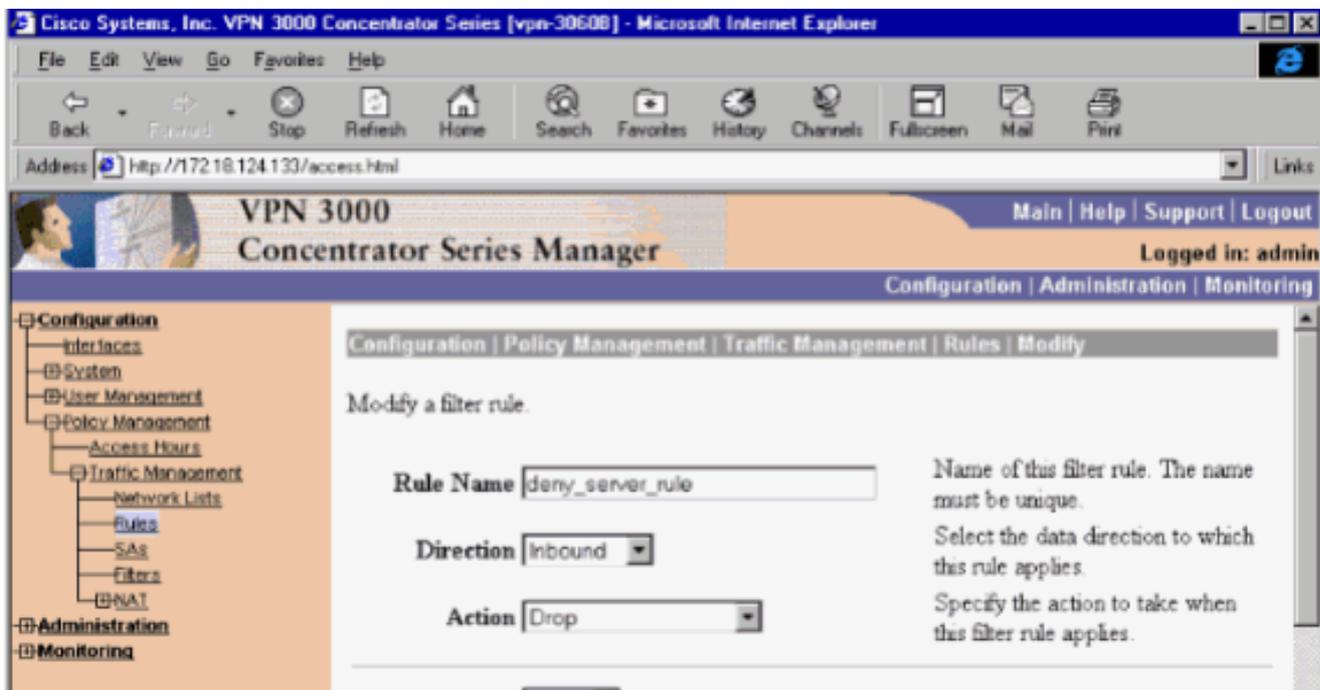
The screenshot shows the Cisco VPN 3000 Concentrator Series Manager web interface. The browser title is "Cisco Systems, Inc. VPN 3000 Concentrator Series [vpn-3060B] - Microsoft Internet Explorer". The address bar shows "http://172.16.124.133/access.html". The page title is "VPN 3000 Concentrator Series Manager" and it is logged in as "admin". The navigation menu includes "Configuration", "Administration", and "Monitoring".

The main configuration area is titled "Configuration | Policy Management | Traffic Management | Rules | Add". It contains the following fields and instructions:

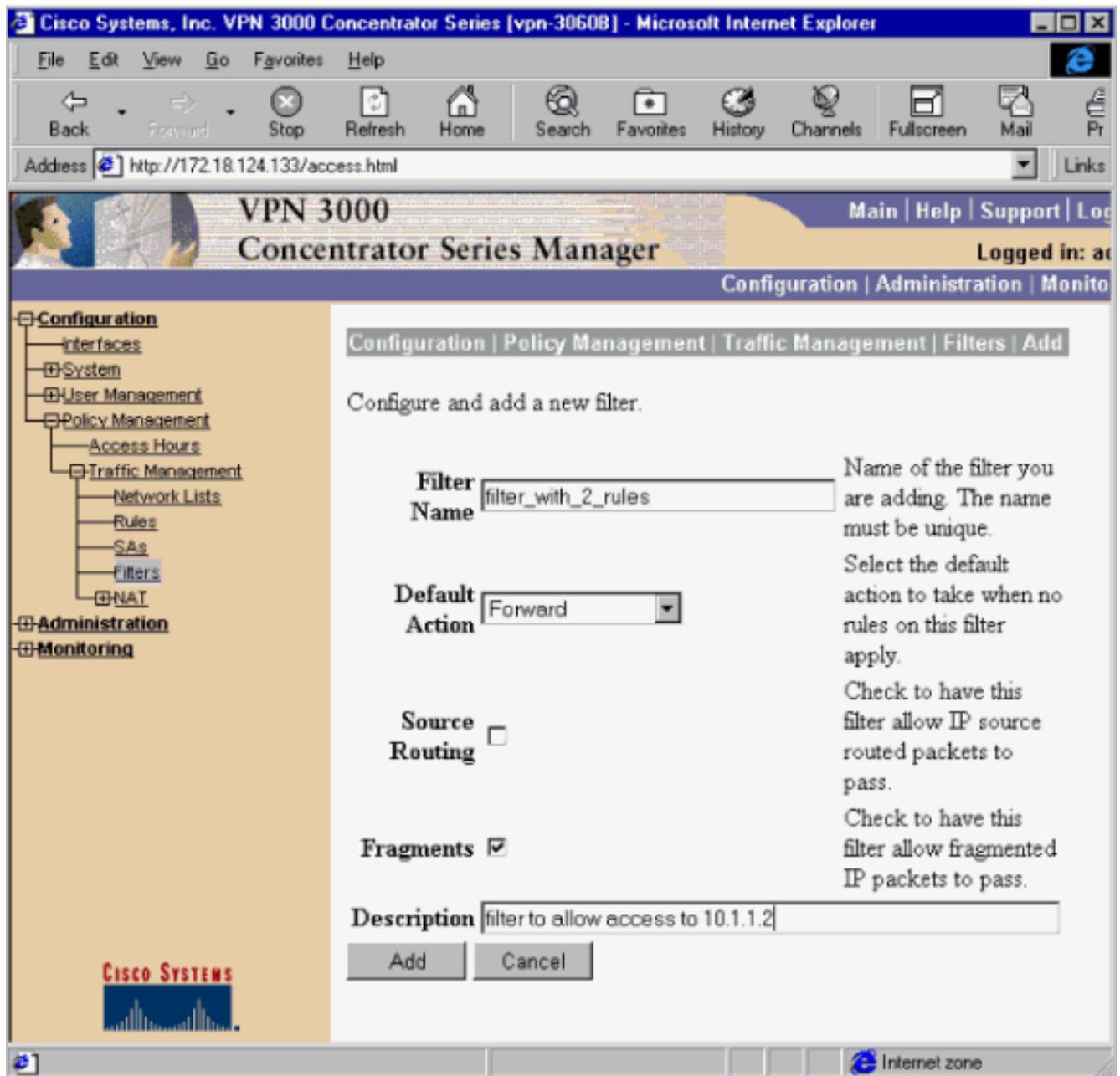
- Rule Name:**  Name of this filter rule. The name must be unique.
- Direction:**  Select the data direction to which this rule applies.
- Action:**  Specify the action to take when this filter rule applies.
- Protocol:**  Select the protocol to which this rule applies. For Other protocols, enter the protocol number.
- or Other:**  Enter the protocol number.
- TCP Connection:**  Select whether this rule should apply to an established TCP connection.
- Source Address:**
  - Network List:**  Specify the source network address list or the IP address and wildcard mask that this rule checks.
  - IP Address:**
  - Wildcard-mask:**  **Note: Enter a wildcard mask, which is the reverse of a subnet mask. A wildcard mask has 1s in bit positions to ignore, 0s in bit positions to match. For example, 10.10.1.0/0.0.0.255 = all 10.10.1.nnn addresses.**
- Destination Address:**
  - Network List:**  Specify the destination network address list or the IP address and wildcard mask that this rule checks.
  - IP Address:**  **Note: Enter a wildcard mask, which is the reverse of a subnet mask. A wildcard mask has 1s in bit positions to ignore, 0s in bit positions to match. For example, 10.10.1.0/0.0.0.255 = all 10.10.1.nnn addresses.**
  - Wildcard-mask:**
- TCP/UDP Source Port:**
  - Port:**  For TCP/UDP, specify the source port ranges that this rule checks.
  - or Range:**  to  For a single port number, use the same number for the start and end.

2. 在同一个区域中，请定义呼叫的第二个VPN集中器规则deny\_server\_rule以这些默认：方向—入站操作—丢弃任何东西的源地址和目的地址(255.255.255.255)

:



3. 选择 Configuration > Policy Management > Traffic Management > Filters 并且添加您的 filter\_with\_2\_rules 过滤器。



4. 增加两个规则到filter\_with\_2\_rules  
:

Cisco Systems, Inc. VPN 3000 Concentrator Series [vpn-30608] - Microsoft Internet Explorer

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print

Address http://172.18.124.133/access.html Links

VPN 3000 Concentrator Series Manager Main | Help | Support | Logout

Configuration | Administration | Monitoring

Save Needed

Configuration

- Interfaces
- System
- User Management
- Policy Management
  - Access Hours
  - Traffic Management
    - Network Lists
    - Rules
    - SAs
    - Filters
  - NAT
- Administration
- Monitoring

Add, remove, prioritize, and configure rules that apply to a filter.

**Filter Name:** filter\_with\_2\_rules

Select an **Available Rule** and click **Add** to apply it to this filter.

Select a **Current Rule in Filter** and click **Remove**, **Move Up**, **Move Down**, or **Assign SA to Rule** as appropriate.

Select an **Available Rule**, then select a **Current Rule in Filter**, and click **Insert Above** to add the available rule above the current rule.

Current Rules in Filter	Actions	Available Rules
permit_server_rule (forward/in) deny_server_rule (drop/in)	<< Add << Insert Above Remove >> Move Up Move Down Assign SA to Rule Done	GRE In (forward/in) GRE Out (forward/out) IPSEC-ESP In (forward/in) IKE In (forward/in) IKE Out (forward/out) PPTP In (forward/in) PPTP Out (forward/out) L2TP In (forward/in) L2TP Out (forward/out) ICMP In (forward/in) ICMP Out (forward/out) RIP In (forward/in)

CISCO SYSTEMS

5. 选择 Configuration > User Management > Groups 并且应用过滤器给组

:

Cisco Systems, Inc. VPN 3000 Concentrator Series [vpn-3060B] - Microsoft Internet Explorer

Address: http://172.16.124.133/access.html

VPN 3000 Concentrator Series Manager

Main | Help | Support | Logout

Logged in: admin

Configuration | Administration | Monitoring

Configuration | User Management | Groups | Modify servergroup

Check the **Inherit?** box to set a field that you want to default to the base group value. Uncheck the **Inherit?** box and enter a new value to override base group values.

General Parameters			
Attribute	Value	Inherit?	Description
Access Hours	-No Restrictions-	<input checked="" type="checkbox"/>	Select the access hours assigned to this group.
Simultaneous Logins	3	<input checked="" type="checkbox"/>	Enter the number of simultaneous logins for this group.
Minimum Password Length	8	<input checked="" type="checkbox"/>	Enter the minimum password length for users in this group.
Allow Alphabetic-Only Passwords	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enter whether to allow alphabetic-only passwords.
Idle Timeout	30	<input checked="" type="checkbox"/>	(minutes) Enter the idle timeout for this group.
Maximum Connect Time	0	<input checked="" type="checkbox"/>	(minutes) Enter the maximum connect time for this group.
Filter	filter_with_2_rules	<input type="checkbox"/>	Enter the filter assigned to this group.
Primary DNS		<input checked="" type="checkbox"/>	Enter the IP address of the primary DNS server.
Secondary DNS		<input type="checkbox"/>	Enter the IP address of the

## LAN到LAN VPN隧道的过滤器

从VPN集中器代码3.6及以上版本，您能每个LAN对LAN IPSec VPN通道的过滤数据流。例如，如果构建LAN-to-LAN隧道到有地址的172.16.1.1另一个VPN集中器，和要允许主机对通道的10.1.1.2访问，当您否决其他流量时，您能应用filter\_with\_2\_rules，当您选择Configuration > System > Tunneling Protocols > IPSec > LAN-to-LAN > Modify并且选择filter\_with\_2\_rules在过滤器下时。



# VPN 3000 Concentrator Series Manager

- Configuration
  - Interfaces
  - System
    - Servers
    - Address Management
    - Tunneling Protocols
      - PPTP
      - L2TP
      - IPSec
        - LAN-to-LAN
        - IKE Proposals
        - NAT Transparency
    - IP Routing
    - Management Protocols
    - Events
    - General
    - Client Update
    - Load Balancing
  - User Management
  - Policy Management
- Administration
- Monitoring

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

Modify an IPSec LAN-to-LAN connection.

Name

Interface

Peer

Digital Certificate

Certificate  Entire certificate chain

Transmission  Identity certificate only

Preshared Key

Authentication

Encryption

IKE Proposal

Filter

IPSec NAT-T

## [VPN 3000 配置 - RADIUS 过滤器分配](#)

定义在VPN集中器的一个过滤器也是可能的然后通过从RADIUS服务器的过滤器编号下(用RADIUS术语，属性11是过滤器ID)，因此，当用户在RADIUS服务器验证，过滤器ID关联与该连接。在本例中，假定是VPN集中器用户的RADIUS验证已经是可操作的，并且仅过滤器ID将被添加。

定义在VPN集中器的过滤器正如在前一个示例：

Modify a configured filter.

**Filter Name**

101

Name of the filter to be modified. The name must be unique.

**Default Action**

Drop

Select the default action to be applied to traffic when no rules are applied.

**Source Routing**

Check to allow the filter to apply to source-routed packets.

**Fragments**

Check to allow the filter to apply to fragmented IP packets.

**Description**

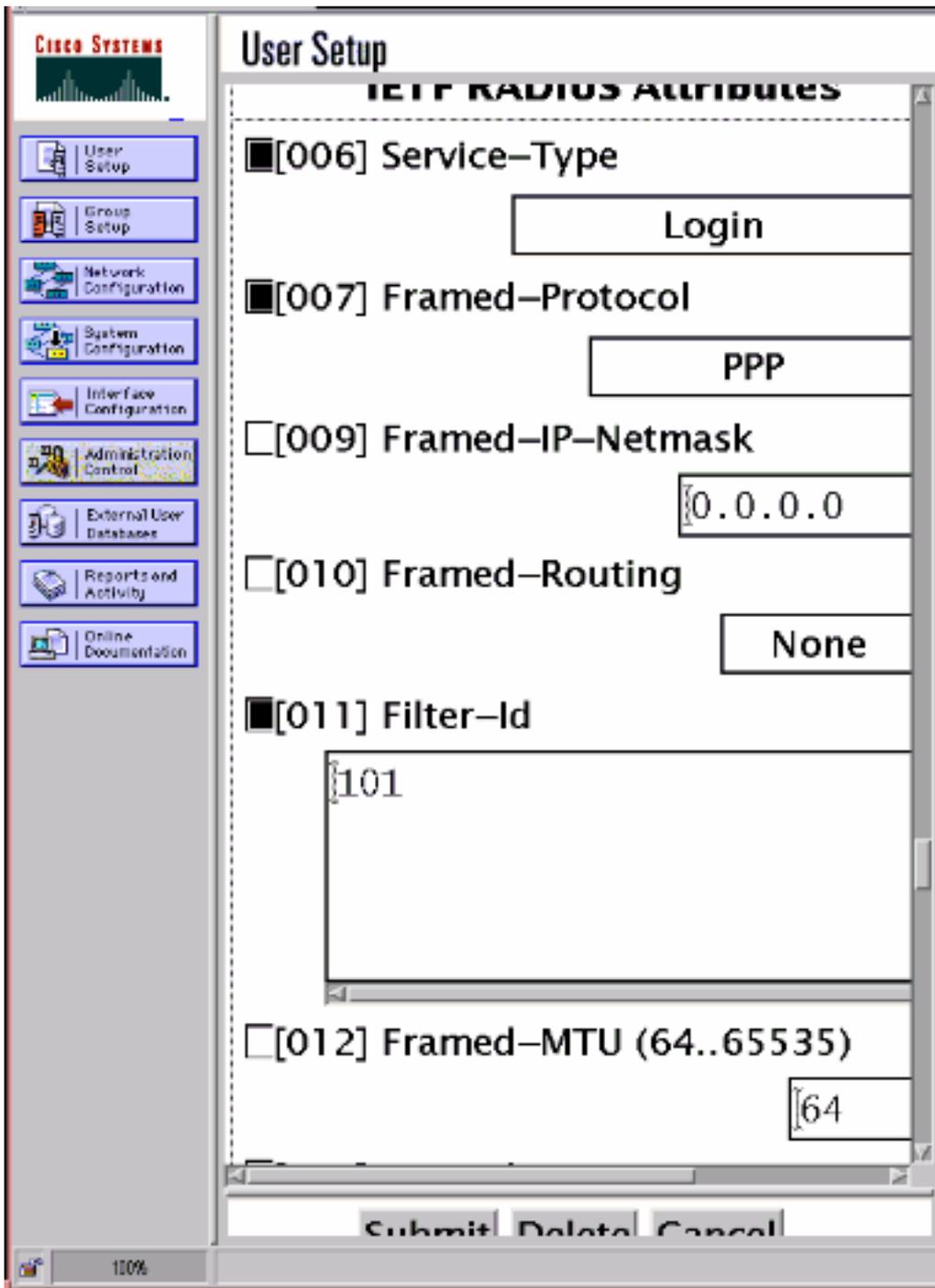
filter to allow access to 10.1.1.2

Apply

Cancel

## [CSNT 服务器配置 - RADIUS 过滤器分配](#)

配置属性11，在CiscoSecure NT服务器的过滤器ID是101：



## 调试 - RADIUS 过滤器分配

如果AUTHDECODE (1-13严重性)在VPN集中器，日志显示CiscoSecure NT服务器发送在access-list 101下在属性11 (0x0B)：

```
207 01/24/2001 11:27:58.100 SEV=13 AUTHDECODE/0 RPT=228
0000: 020C002B 768825C5 C29E439F 4C8A727A ...+v.%...C.L.rz
0010: EA7606C5 06060000 00020706 00000001 .v.....
0020: 0B053130 310806FF FFFFFFFF ..101.....
```

## 验证

当前没有可用于此配置的验证过程。

## [故障排除](#)

为了实现故障排除目的，当您选择**Configuration > System > Events > Classes**并且添加**FILTERDBG**类以**严重性记录= 13**时，只，您能打开过滤器调试。在规则，请更改从转发(或丢弃的)默认操作**转发和记录(或丢弃和日志)**。当事件日志被检索在**Monitoring > Event Log**时，应该显示条目例如：

```
221 12/21/2000 14:20:17.190 SEV=9 FILTERDBG/1 RPT=62  
Deny In: intf 1038, ICMP, Src 10.99.99.1, Dest 10.1.1.3, Type 8
```

```
222 12/21/2000 14:20:18.690 SEV=9 FILTERDBG/1 RPT=63  
Deny In: intf 1038, ICMP, Src 10.99.99.1, Dest 10.1.1.3, Type 8
```

## [相关信息](#)

- [IPsec 协商/IKE 协议](#)
- [VPN 3000集中器常见问题](#)
- [RADIUS支持](#)
- [Cisco VPN 3000 集中器支持](#)
- [Cisco VPN 3000客户端支持](#)
- [适用于 Windows 的 Cisco Secure ACS 支持](#)
- [请求注解 \(RFC\)](#)
- [技术支持和文档 - Cisco Systems](#)