

避开使用Cisco IDS Unix Director的IDS PIX

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[Introduction](#)

本文描述如何在Cisco IDS Unix Director (以前叫作Netranger导向器)和传感器帮助下配置在PIX的避开。本文假设，传感器和导向器是可操作的，并且传感器的探测接口设置跨到PIX外部接口。

[Prerequisites](#)

[Requirements](#)

本文档没有任何特定的前提条件。

[Components Used](#)

本文档中的信息基于以下软件和硬件版本。

- Cisco IDS Unix Director 2.2.3
- Cisco IDS UNIX传感器3.0.5
- 与6.1.1的Cisco Secure PIX**Note:** 如果使用6.2.x版本，您能使用安全套接协议(SSH)不是管理，但是Telnet。欲知详情参考Cisco Bug ID [CSCdx55215](#) (仅限注册用户)。

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is

live, make sure that you understand the potential impact of any command.

Conventions

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

Configure

本部分提供用于配置本文档所述功能的信息。

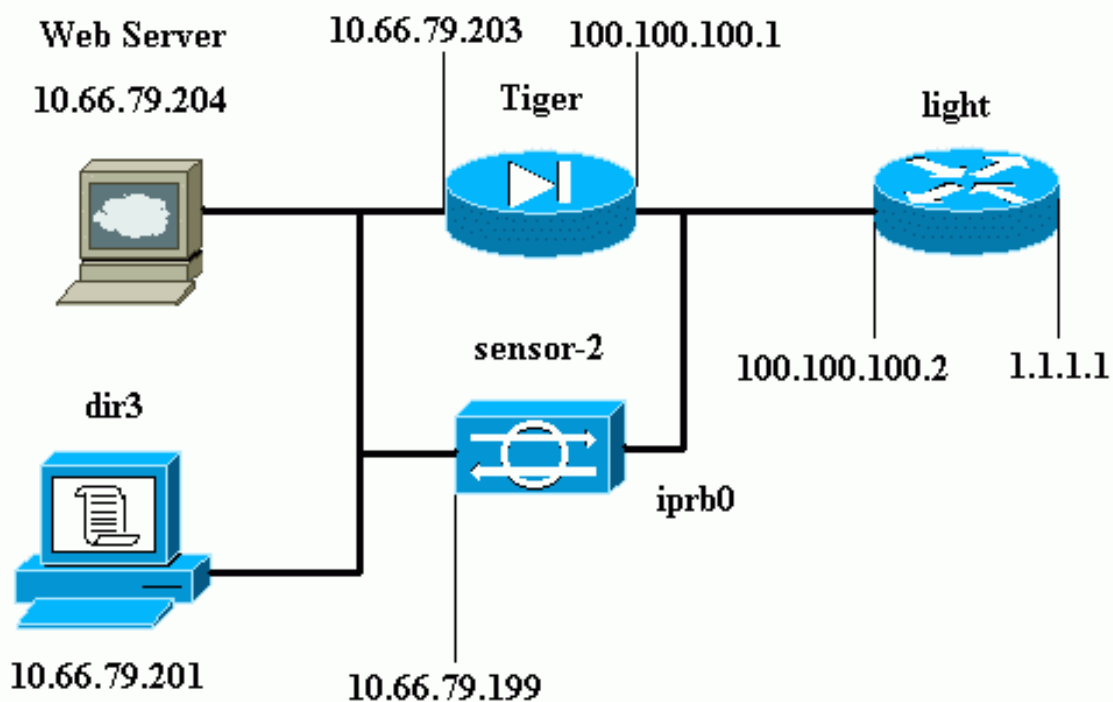
Cisco IDS Unix Director和传感器用于为了管理避开的Cisco Secure PIX。当您考虑此配置时，请记住这些概念：

- 安装传感器并且适当地确定传感器工作。
- 保证探测接口间距对PIX的外部接口。

Note: 为了找到关于用于本文的命令的其他信息，请参见[命令查找工具\(仅限注册用户\)](#)。

Network Diagram

本文档使用此网络设置。



配置

本文档使用以下配置。

- [路由器灯](#)
- [PIX Tiger](#)

[路由器灯](#)

```
.  
Current configuration : 906 bytes  
!  
version 12.2  
service timestamps debug uptime  
service timestamps log uptime  
no service password-encryption  
!  
hostname light  
!  
enable password cisco  
!  
username cisco password 0 cisco  
ip subnet-zero  
!  
!  
!  
ip ssh time-out 120  
ip ssh authentication-retries 3  
!  
call rsvp-sync  
!  
!  
!  
fax interface-type modem  
mta receive maximum-recipients 0  
!  
controller E1 2/0  
!  
!  
!  
interface FastEthernet0/0  
 ip address 100.100.100.2 255.255.255.0  
 duplex auto  
 speed auto  
!  
interface FastEthernet0/1  
 ip address 1.1.1.1 255.255.255.0  
 duplex auto  
 speed auto  
!  
interface BRI4/0  
 no ip address  
 shutdown  
!  
interface BRI4/1  
 no ip address  
 shutdown  
!  
interface BRI4/2  
 no ip address  
 shutdown  
!  
interface BRI4/3  
 no ip address  
 shutdown  
!  
ip classless  
ip route 0.0.0.0 0.0.0.0 100.100.100.1  
ip http server  
ip pim bidir-enable  
!  
!
```

[dial-peer cor custom](#)

[↓](#)

[↓](#)

[line con 0](#)

[line 97 108](#)

[line aux 0](#)

[line vty 0 4](#)

[login](#)

[↓](#)

[end](#)

PIX Tiger

```
PIX Version 6.1(1)
nameif gb-ethernet0 intf2 security10
nameif gb-ethernet1 intf3 security15
nameif ethernet0 outside security0
nameif ethernet1 inside security100
enable password 2KFQnbNIdI.2KYOU encrypted
passwd 9jNfZuG3TC5tCVH0 encrypted
hostname Tiger
fixup protocol ftp 21
fixup protocol http 80
fixup protocol h323 1720
fixup protocol rsh 514
fixup protocol rtsp 554
fixup protocol smtp 25
fixup protocol sqlnet 1521
fixup protocol sip 5060
fixup protocol skinny 2000
names
!--- Allows ICMP traffic and HTTP to pass through the
PIX !--- to the Web Server. access-list 101 permit icmp
any host 100.100.100.100
access-list 101 permit tcp any host 100.100.100.100 eq
www
pager lines 24
logging on
logging buffered debugging
interface gb-ethernet0 1000auto shutdown
interface gb-ethernet1 1000auto shutdown
interface ethernet0 auto
interface ethernet1 auto
mtu intf2 1500
mtu intf3 1500
mtu outside 1500
mtu inside 1500
ip address intf2 127.0.0.1 255.255.255.255
ip address intf3 127.0.0.1 255.255.255.255
ip address outside 100.100.100.1 255.255.255.0
ip address inside 10.66.79.203 255.255.255.224
ip audit info action alarm
ip audit attack action alarm
no failover
failover timeout 0:00:00
failover poll 15
failover ip address intf2 0.0.0.0
failover ip address intf3 0.0.0.0
failover ip address outside 0.0.0.0
failover ip address inside 0.0.0.0
pdm history enable
arp timeout 14400
global (outside) 1 interface
```

```

nat (inside) 1 0.0.0.0 0.0.0.0 0 0
!--- Static NAT for the Web Server. static
(inside,outside) 100.100.100.100 10.66.79.204
  netmask 255.255.255.255 0 0
access-group 101 in interface outside
route outside 0.0.0.0 0.0.0.0 100.100.100.2 1
route inside 10.66.0.0 255.255.0.0 10.66.79.193 1
timeout xlate 3:00:00
timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 rpc
0:10:00
  h323 0:05:00 s0
timeout uauth 0:05:00 absolute
aaa-server TACACS+ protocol tacacs+
aaa-server RADIUS protocol radius
aaa-server LOCAL protocol tacacs+
no snmp-server location
no snmp-server contact
snmp-server community public
no snmp-server enable traps
floodguard enable
no sysopt route dnat
!--- Allows Sensor Telnet to the PIX from the inside
interface. telnet 10.66.79.199 255.255.255.255 inside
telnet timeout 5
ssh timeout 5
terminal width 80
Cryptochecksum:b4c820ba31fbb3996ca8891503ebacbc
: end

```

配置传感器

这些步骤描述如何配置传感器。

1. 远程登录到与用户名根和密码攻击的10.66.79.199。
2. 输入sysconfig-sensor。
3. 输入此信息：IP地址：10.66.79.199IP网络掩码：255.255.255.224IP主机名字：sensor-2默认路由：10.66.79.193网络访问控制10.通信基础架构传感器主机标识符：49传感器组织ID：900传感器主机名：sensor-2传感器组织名字：cisco传感器IP地址：10.66.79.199IDS管理器主机标识符：50IDS管理器组织ID：900IDS管理器主机名：dir3IDS管理器组织名字：ciscoIDS管理器IP地址：10.66.79.201
4. 保存配置。传感器然后重新启动。

添加传感器到导向器

完成这些步骤为了添加传感器到导向器。

1. 远程登录到与用户名netrangr和密码攻击的10.66.79.201。
2. 输入ovw&为了启动HP OpenView。
3. 在主菜单，请选择Security > Configure。
4. 在Netranger配置菜单，请选择File > Add Host，并且其次点击。
5. 输入此信息，并且其次点击。

Use this panel to specify the remote machine to which you wish to establish connectivity. If you need to add a new organization, click Create.

Organization name

Organization ID

Host name

Host ID

Host IP Address

Secondary Director

IOS IDS

Sensor / IDSM

6. 留下默认设置并且其次点击。

Use this dialog box to define the type of machine you are adding.

Please remember that in order for connectivity to be established, the remote machine must already know the IDs and IP address of this Director. For Sensors, this is accomplished at install time by running `sysconfig-sensor`. For remote (secondary) Directors, this is accomplished by running `nrConfigure` on the remote machine and modifying the `hosts` and `routes` System Files accordingly.

Initialize a newly installed Sensor

Connect to a previously configured Sensor

Forward alarms to a secondary Director

7. 如果值是可接受的，请更改日志并且避开分钟或留下他们作为默认值。更改网络接口名称到您的探测接口的名字。在本例中，它是"iprb0"。它可以是根据传感器类型或别的"spwr0"，并且您如何连接传感器。

Use this dialog box to set the time in minutes for automatic logging and shunning, the name of the Sensor network interface performing packet capture, and the addresses and netmasks of networks protected by the Sensor.

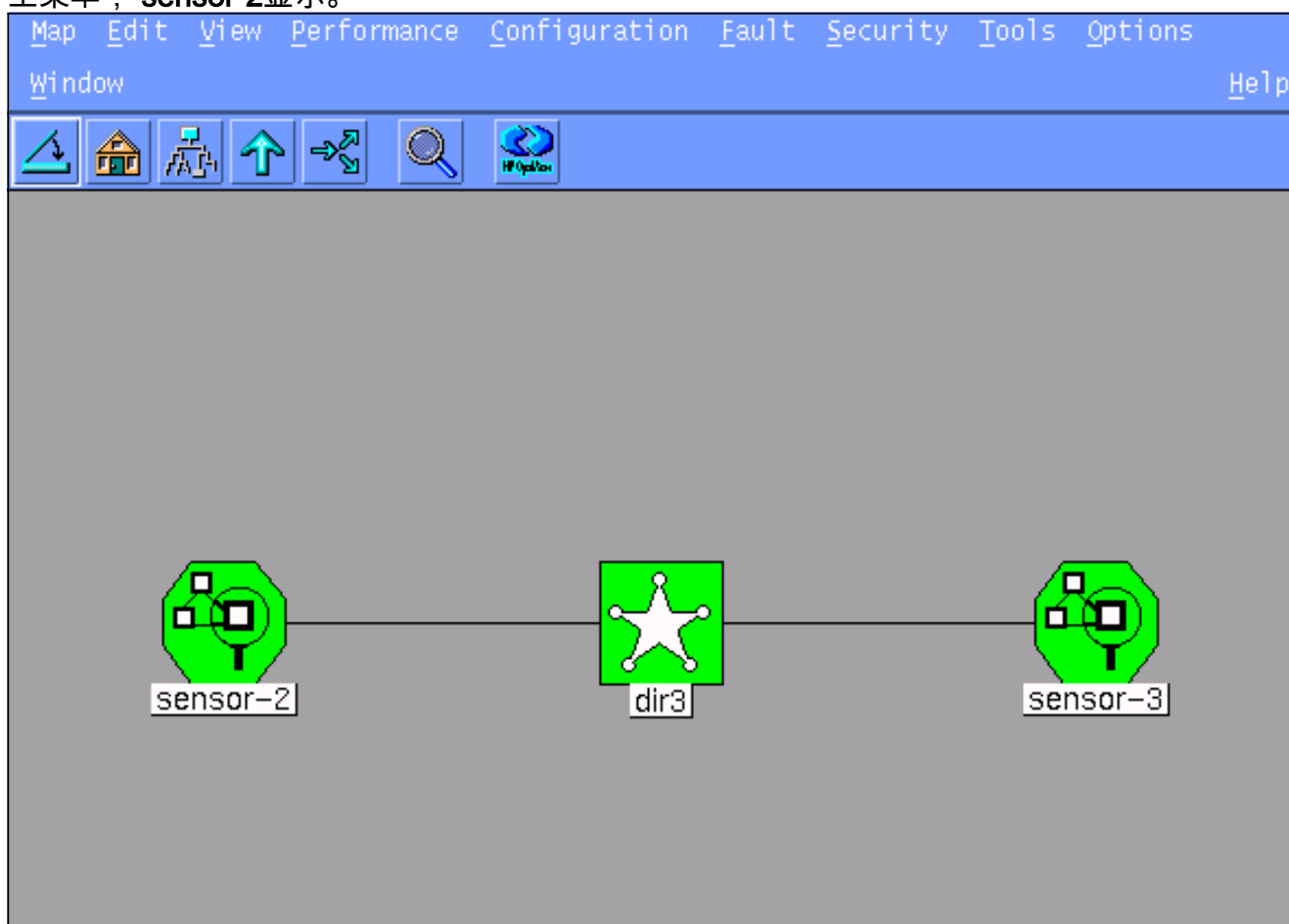
Number of minutes to log on an event.

Number of minutes to shun on an event.

Network Interface Name

Sensor Protected Networks

8. 其次请点击，直到有点击**完成的**选项。传感器成功地当前添加到导向器。如此示例所显示，从主菜单，**sensor-2**显示。



配置PIX的避开

完成这些步骤为了配置PIX的避开。

1. 在主菜单，请选择**Security > Configure**。

- 在Netranger配置菜单，请突出显示**sensor-2**并且双击它。
- 打开**设备管理**。
- 如此示例所显示，点击**Devices > Add**并且输入信息。单击 **OK** 以继续。Telnet和特权密码是都“Cisco”。

IP Address: 10.66.79.203

User Name: []

Device Type: PIX

Password: *****

Sensor's NAT IP Address: []

Enable Password: *****

Enable SSH

- 点击**Shunning > Add**。请勿添加主机100.100.100.100在“地址下避开”。单击 **OK** 以继续。

General | Devices | Interfaces | **Shunning**

Maximum Number of Shunned Entries: 100

Addresses Never to Shun

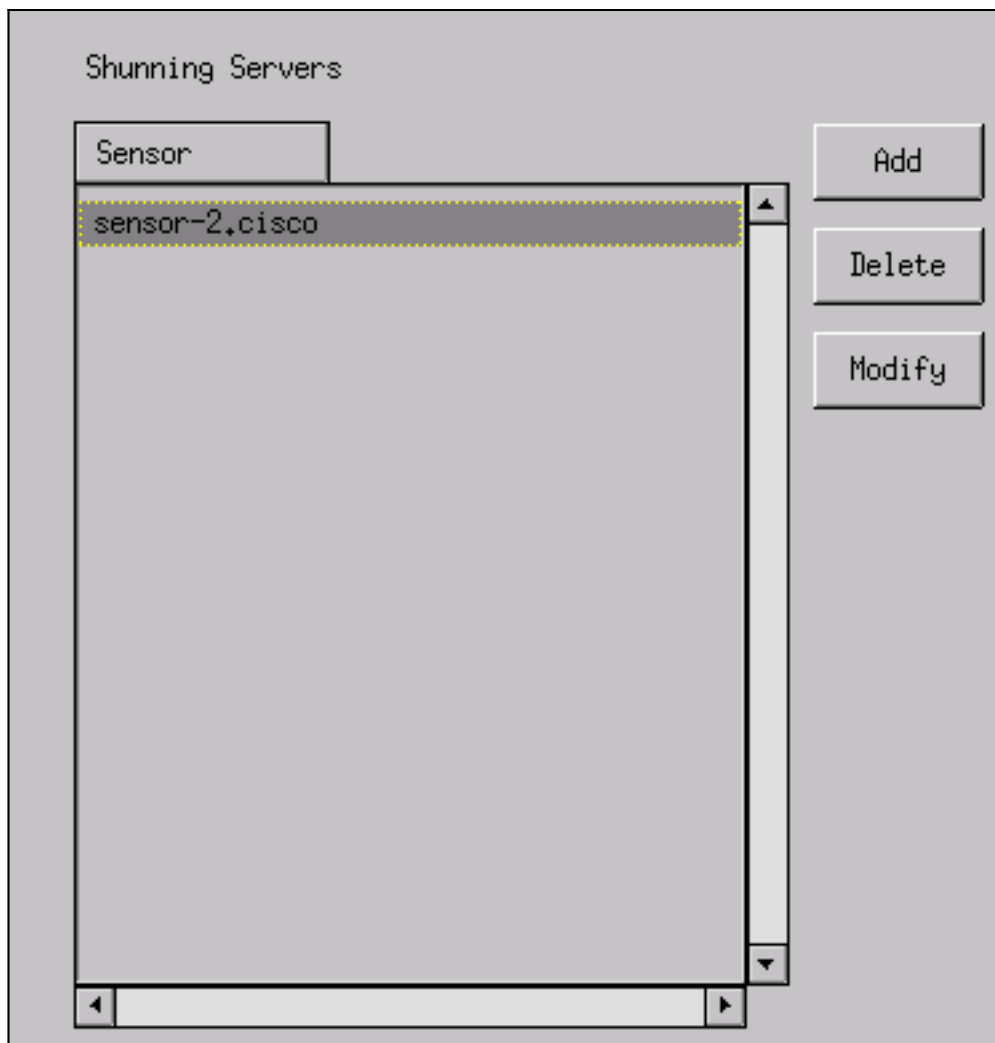
Network Address	Network Mask
100.100.100.100	255.255.255.255

Add

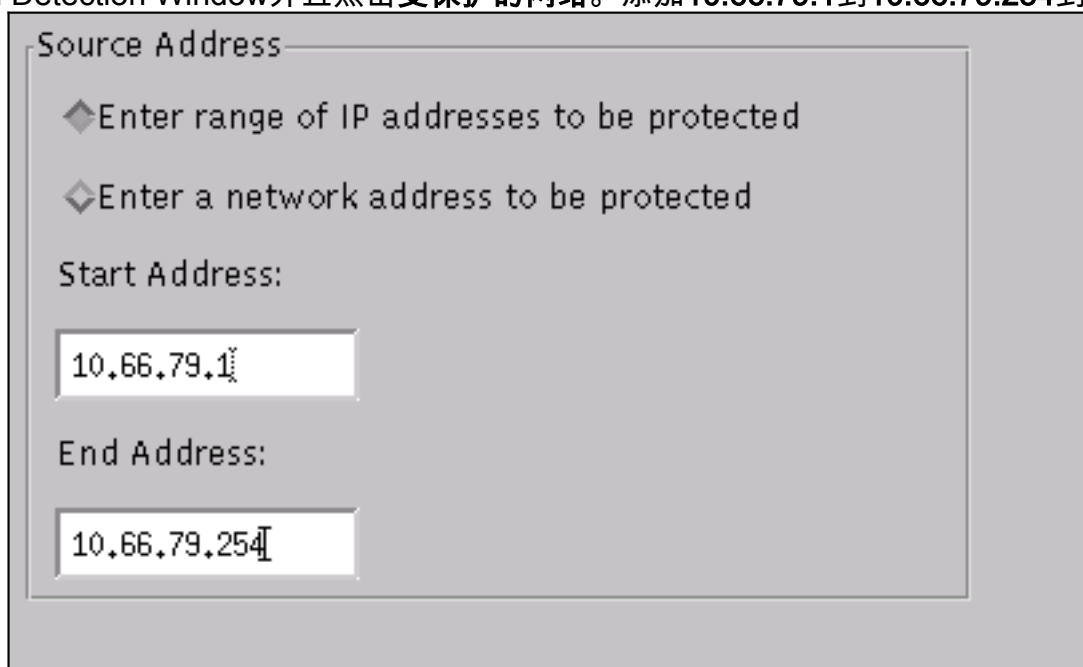
Delete

Modify

- 点击**Shunning > Add**并且选择**sensor-2.cisco**作为避开服务器。配置的这部分完成。关上 Device Management窗口。



7. 打开Intrusion Detection Window并且点击受保护的网路。添加10.66.79.1到10.66.79.254到受



保护的网路。

8. 点击配置文件并且选择手工的Configuration>修改签名。选择大ICMP数据流和ID : 2151，点击修改，并且从无避开和记录更改动作。单击 OK 以继续。

Signature	sensor-2.cisco loggerd
Large ICMP traffic	3
ID	dir3.cisco smid
2151	3
Action	
Shun & Log	

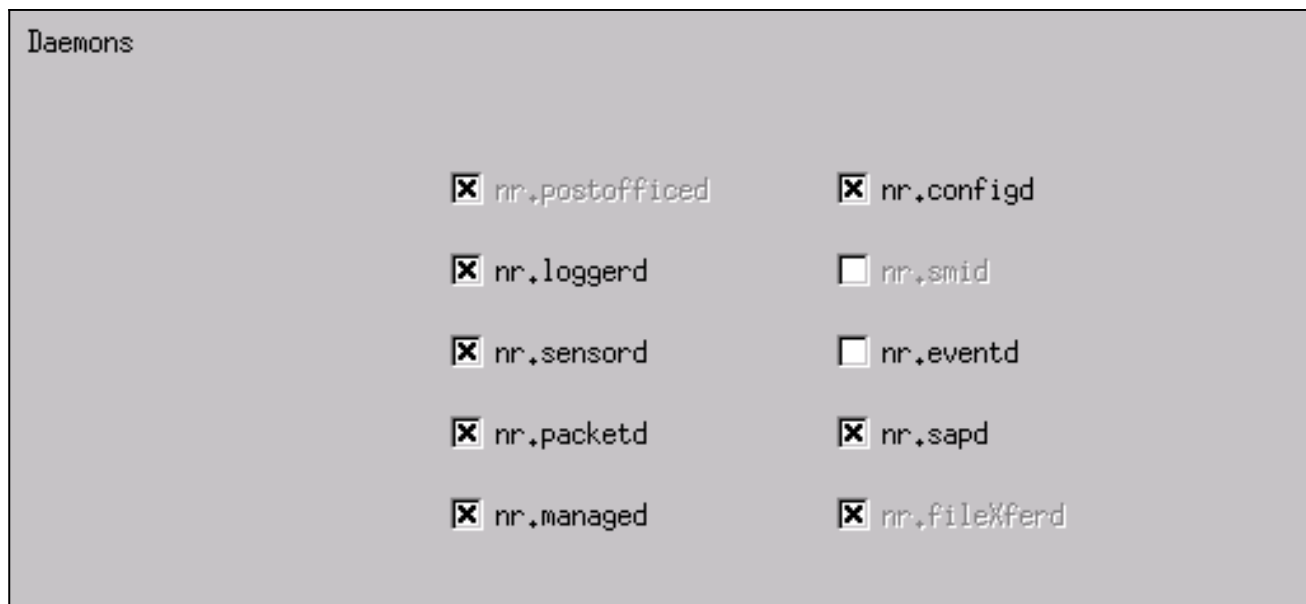
9. 选择**ICMP溢出**和**ID : 2152**，点击**修改**，并且从**无避开和记录**更改动作。单击 **OK** 以继续。

Signature	sensor-2.cisco loggerd
ICMP Flood	4
ID	dir3.cisco smid
2152	4
Action	
Shun & Log	

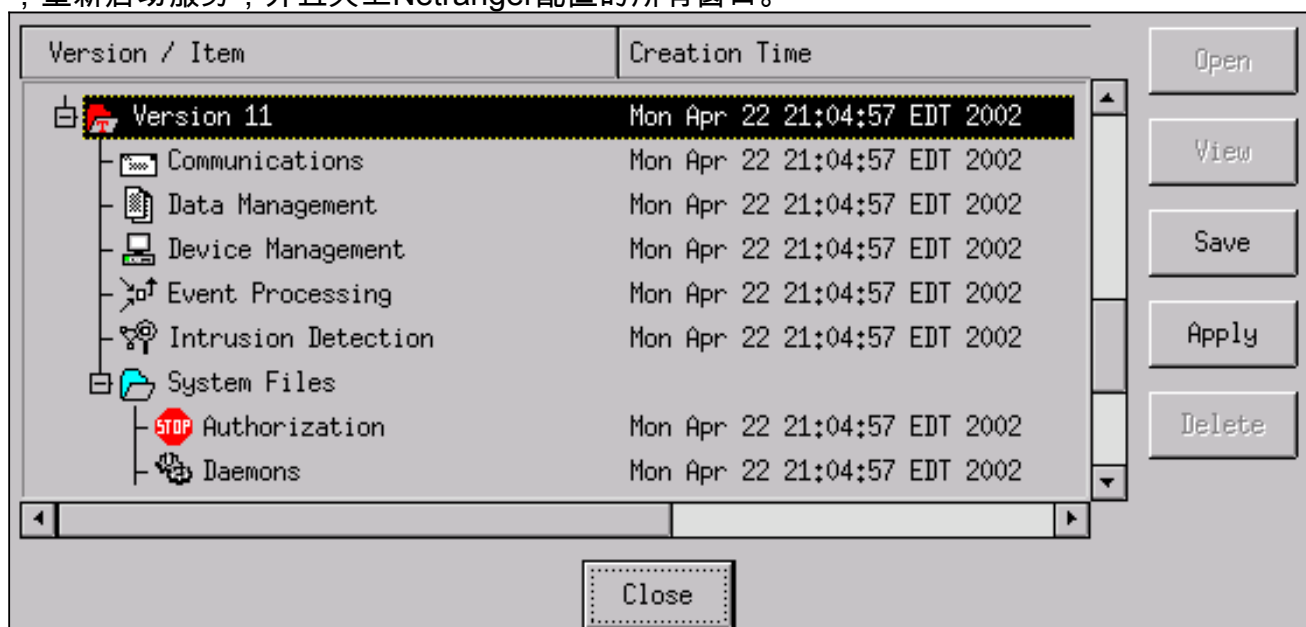
10. 配置的这部分完成。点击**OK**键为了关上Intrusion Detection Window。

11. 打开**系统文件**文件夹并且打开**Daemons**窗口。保证您启用了这些守护程序

:



12. 点击OK键为了继续和选择您修改的版本。点击“Save” >适用。等待系统告诉您传感器完成，重新启动服务，并且关上Netranger配置的所有窗口。



Verify

此部分提供帮助您适当地确认您的配置工作的信息。

在您发起攻击前

```
Tiger(config)# show telnet
10.66.79.199 255.255.255.255 inside
Tiger(config)# who
0: 10.66.79.199
```

```
Tiger(config)# show xlate
1 in use, 1 most used
Global 100.100.100.100 Local 10.66.79.204 static
```

```
Light#ping 100.100.100.100
```

```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 100.100.100.100, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 112/195/217 ms
```

```
Light#telnet 100.100.100.100 80
Trying 100.100.100.100, 80 ... Open
```

发起攻击和规避

```
Light#ping
Protocol [ip]:
Target IP address: 100.100.100.100
Repeat count [5]: 100000
Datagram size [100]: 18000
Timeout in seconds [2]:
Extended commands [n]:
Sweep range of sizes [n]:
Type escape sequence to abort.
Sending 100000, 18000-byte ICMP Echos to 100.100.100.100, timeout is 2 seconds:
!.....
Success rate is 4 percent (1/21), round-trip min/avg/max = 281/281/281 ms
```

```
Light#telnet 100.100.100.100 80
Trying 100.100.100.100, 80 ...
% Connection timed out; remote host not responding
```

```
Tiger(config)# show shun
Shun 100.100.100.2 0.0.0
```

```
Tiger(config)# show shun stat
intf2=OFF, cnt=0
intf3=OFF, cnt=0
outside=ON, cnt=2604
inside=OFF, cnt=0
intf4=OFF, cnt=0
intf5=OFF, cnt=0
intf6=OFF, cnt=0
intf7=OFF, cnt=0
intf8=OFF, cnt=0
intf9=OFF, cnt=0
Shun 100.100.100.2 cnt=403, time=(0:01:00).0 0 0
因为避开设置为十五分钟，十五分钟后，它回到正常。
```

```
Tiger(config)# show shun
```

```
Tiger(config)# show shun stat
intf2=OFF, cnt=0
intf3=OFF, cnt=0
outside=OFF, cnt=4437
inside=OFF, cnt=0
intf4=OFF, cnt=0
intf5=OFF, cnt=0
intf6=OFF, cnt=0
intf7=OFF, cnt=0
intf8=OFF, cnt=0
intf9=OFF, cnt=0
```

```
Light#ping 100.100.100.100
```

```
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 100.100.100.100, timeout is 2 seconds:  
!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/4 ms
```

```
Light#telnet 100.100.100.100 80  
Trying 100.100.100.100, 80 ... Open
```

[Troubleshoot](#)

目前没有针对此配置故障排除信息。

[Related Information](#)

- [Cisco IDS Director的END销售](#)
- [End-of - Cisco IDS传感器软件版本3.x的生活](#)
- [思科入侵防御系统产品技术支持](#)
- [思科PIX防火墙软件产品技术支持](#)
- [Cisco Secure PIX防火墙命令参考](#)
- [Technical Support & Documentation - Cisco Systems](#)