

禁用在避免不需要的故障切换事件的ASA的服务模块监听(SFR/CX/IPS/CSC)。

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简介

本文描述如何禁用在模块SourceFire (SFR)的意识监听的上下文(CX)，入侵防御系统(IPS)、内容安全和控制(CSC)在一个可适应安全工具(ASA)故障切换环境。

贡献用塞萨尔省卢佩茨，Cisco TAC工程师。

先决条件

要求

思科建议您有以下主题的知识：

- 可适应安全工具的配置。
- [ASA故障切换](#)知识[高可用性的](#)。

从版本9.3(1)，此功能可配置。在被提及的版本前，模块永远将是受监视。应急方案可以用于描述的以前版本在本文。

使用的组件

本文根据这些软件和硬件版本：

- Cisco ASA版本9.3(1)和以上。
- ASA 5500-X系列用FirePOWER服务、ASA CX上下文意识安全或者IPS模块。

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。如果您的网络实际，请确保您了解所有命令潜在影响

背景信息

默认情况下，ASA监控一个已安装服务模块。如果失败在活动装置模块检测，设备故障切换被触发。

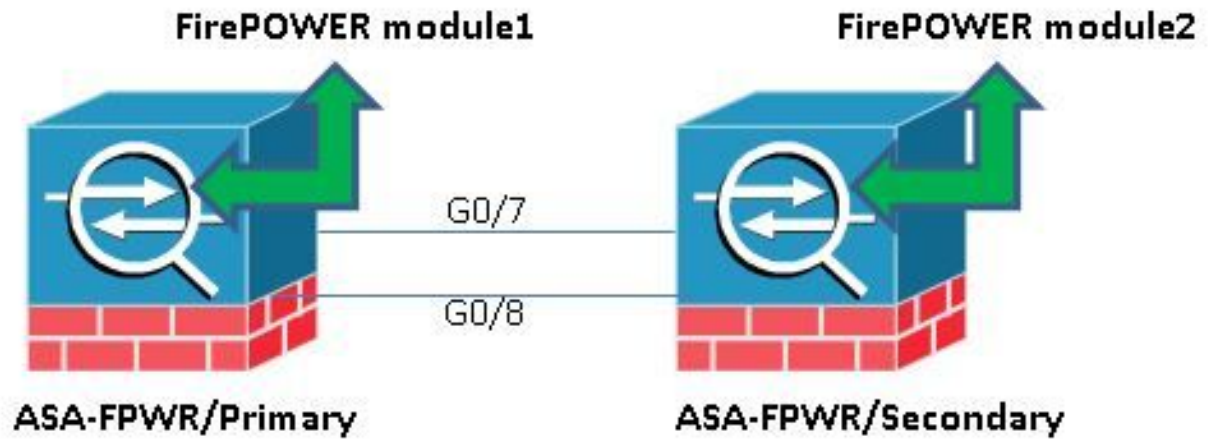
禁用此监视器可以是有用的，当有同样的一个被安排的服务模块重新加载或连续模块故障时，无需愿有ASA故障切换事件。

注意：ASA需要将流量转变为模块为了由故障切换进程监控。

配置

网络图

本文使用此设置：



配置

此配置用于实验室设备展示在本文提及的监控程序功能。仅相关配置包括。某些此输出线路省略。

```
ASA Version 9.3(3)
!
hostname ASA-FPWR
!
interface GigabitEthernet0/0
nameif outside
security-level 0
ip address 10.88.247.5 255.255.255.224 standby 10.88.247.6
!
interface GigabitEthernet0/1
nameif inside
security-level 100
ip address 192.168.10.111 255.255.255.0 standby 192.168.10.112
!
...
!
interface GigabitEthernet0/6
description LAN Failover Interface
!
interface GigabitEthernet0/7
description STATE Failover Interface
!
...

failover
failover lan unit primary
failover lan interface folink GigabitEthernet0/6
failover link statelink GigabitEthernet0/7
failover interface ip folink 1.1.1.1 255.255.255.0 standby 1.1.1.2
failover interface ip statelink 2.2.2.1 255.255.255.0 standby 2.2.2.2
!
...

!
class-map SFR
match any
```

```

class-map inspection_default
match default-inspection-traffic
!
!
policy-map type inspect dns migrated_dns_map_1
parameters
message-length maximum client auto
message-length maximum 512
policy-map global_policy
class inspection_default
inspect dns migrated_dns_map_1
inspect ftp
inspect h323 h225
inspect h323 ras
inspect ip-options
inspect netbios
inspect rsh
inspect rtsp
inspect skinny
inspect esmtp
inspect sqlnet
inspect sunrpc
inspect tftp
inspect sip
inspect xdmcp
class SFR
sfr fail-open
!
service-policy global_policy global
prompt hostname context priority state
no call-home reporting anonymous
Cryptochecksum:b268e0095f175a26aa94d120e9041c29
: end

```

检查当前受监视组件。

当ASA在故障切换模式时，安装的默认情况下服务模块监控，正设备建立接口。此命令可以用于，为了发现哪些当前组件监控：

```

ASA-FPWR/pri/act# show run all monitor-interface
monitor-interface outside
monitor-interface inside
monitor-interface service-module

```

检查ASA单元服务模块状态。

show failover输出显示每个单元模块当前状态：

```

ASA-FPWR/pri/act# show failover
Failover On
Failover unit Primary
Failover LAN Interface: folink GigabitEthernet0/6 (up)
Reconnect timeout 0:00:00
Unit Poll frequency 1 seconds, holdtime 15 seconds
Interface Poll frequency 5 seconds, holdtime 25 seconds
Interface Policy 1
Monitored Interfaces 2 of 316 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.3(3), Mate 9.3(3)
Last Failover at: 14:30:44 UTC Aug 6 2015
This host: Primary - Active
Active time: 85 (sec)

```

```
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.5): Normal (Monitored)
Interface inside (192.168.10.111): Normal (Monitored)
  slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Up/Up)
  ASA FirePOWER, 5.3.1-152, Up
Other host: Secondary - Standby Ready
Active time: 396 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.6): Normal (Monitored)
Interface inside (192.168.10.112): Normal (Monitored)
  slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
  ASA FirePOWER, 5.3.1-155, Up
```

如果活动装置的服务模块断开，故障切换事件发生。活动装置变得暂挂，并且上一个备用装置占领现任角色。在某些情况下，这造成有状态故障切换不支持的一些功能，再聚合。

验证服务模块失败模式策略：

如果FAILopenpolicy用于发送流量到模块，流量持续通过ASA没有发送对服务模块。这可以是一个更加透明的方式解决一个预计模块中断状态。

警告：如果FAIL close策略应用，则，匹配类映射的所有流量用于牵制对模块的流量由ASA丢弃。

为了认识使用的策略状态，请运行show service命令策略[sfr|cx|ips|csc]。

```
ASA-FPWR/pri/act# show service-policy sfr
```

```
Global policy:
Service-policy: global_policy
Class-map: SFR
SFR: card status Up, mode fail-open
packet input 0, packet output 0, drop 0, reset-drop 0
```

同样能通过检查模块化政策架构(MPF)配置看到：

```
ASA-FPWR/pri/act# show run policy-map
!
policy-map type inspect dns migrated_dns_map_1
parameters
message-length maximum client auto
message-length maximum 512
policy-map global_policy
class inspection_default
inspect dns migrated_dns_map_1
inspect ftp
inspect h323 h225
inspect h323 ras
inspect ip-options
inspect netbios
inspect rsh
inspect rtsp
inspect skinny
inspect esmtp
inspect sqlnet
inspect sunrpc
inspect tftp
inspect sip
inspect xdmcp
class SFR
sfr fail-open
```

```
!  
ASA-FPWR/pri/act#
```

禁用服务模块监听。

此命令，做故障切换process stop监听服务模块。所有计划的重新加载或排除故障可以执行到模块，不用故障切换，在断开的模块的情况下“”或“无答复”。

```
ASA-FPWR/pri/act# show run policy-map  
!  
policy-map type inspect dns migrated_dns_map_1  
parameters  
message-length maximum client auto  
message-length maximum 512  
policy-map global_policy  
class inspection_default  
inspect dns migrated_dns_map_1  
inspect ftp  
inspect h323 h225  
inspect h323 ras  
inspect ip-options  
inspect netbios  
inspect rsh  
inspect rtsp  
inspect skinny  
inspect esmtp  
inspect sqlnet  
inspect sunrpc  
inspect tftp  
inspect sip  
inspect xdmcp  
class SFR  
sfr fail-open  
!  
ASA-FPWR/pri/act#
```

验证

验证服务模块监听禁用。

在运行的配置下，接口命令否定。

```
ASA-FPWR/pri/act# show run policy-map  
!  
policy-map type inspect dns migrated_dns_map_1  
parameters  
message-length maximum client auto  
message-length maximum 512  
policy-map global_policy  
class inspection_default  
inspect dns migrated_dns_map_1  
inspect ftp  
inspect h323 h225  
inspect h323 ras  
inspect ip-options  
inspect netbios  
inspect rsh  
inspect rtsp  
inspect skinny  
inspect esmtp  
inspect sqlnet
```

```
inspect sunrpc
inspect tftp
inspect sip
inspect xdmcp
class SFR
sfr fail-open
!
ASA-FPWR/pri/act#
```

测试重新加载活动装置主机的模块。

演示目的，在此单元的FirePOWER模块重新加载确认活动故障切换单元是否在此角色坚持。

从在主要的ASA的FirePOWER模块输出/活动装置。

```
ASA-FPWR/pri/act# show run policy-map
!
policy-map type inspect dns migrated_dns_map_1
parameters
message-length maximum client auto
message-length maximum 512
policy-map global_policy
class inspection_default
inspect dns migrated_dns_map_1
inspect ftp
inspect h323 h225
inspect h323 ras
inspect ip-options
inspect netbios
inspect rsh
inspect rtsp
inspect skinny
inspect esmtp
inspect sqlnet
inspect sunrpc
inspect tftp
inspect sip
inspect xdmcp
class SFR
sfr fail-open
!
ASA-FPWR/pri/act#
```

从主要的ASA的输出/活动装置，当模块重新加载时。

单元在现任角色坚持。

```
ASA-FPWR/pri/act# show failover
Failover On
Failover unit Primary
Failover LAN Interface: folink GigabitEthernet0/6 (up)
Reconnect timeout 0:00:00
Unit Poll frequency 1 seconds, holdtime 15 seconds
Interface Poll frequency 5 seconds, holdtime 25 seconds
Interface Policy 1
Monitored Interfaces 2 of 316 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.3(3), Mate 9.3(3)
Last Failover at: 14:30:44 UTC Aug 6 2015
This host: Primary - Active
Active time: 616 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.5): Normal (Monitored)
```

```
Interface inside (192.168.10.111): Normal (Monitored)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Unresponsive/Down)
ASA FirePOWER, 5.3.1-152, Not Applicable
Other host: Secondary - Standby Ready
Active time: 396 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.6): Normal (Monitored)
Interface inside (192.168.10.112): Normal (Monitored)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
ASA FirePOWER, 5.3.1-155, Up
```

输出从ASA第二/备用装置，当模块重新加载时：

当失败和doen't占领现任角色，备用装置不检测此状态。

```
ASA-FPWR/sec/stby# show failover
Failover On
Failover unit Secondary
Failover LAN Interface: folink GigabitEthernet0/6 (up)
Reconnect timeout 0:00:00
Unit Poll frequency 1 seconds, holdtime 15 seconds
Interface Poll frequency 5 seconds, holdtime 25 seconds
Interface Policy 1
Monitored Interfaces 2 of 316 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.3(3), Mate 9.3(3)
Last Failover at: 14:30:59 UTC Aug 6 2015
This host: Secondary - Standby Ready
Active time: 396 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.6): Normal (Monitored)
Interface inside (192.168.10.112): Normal (Monitored)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
ASA FirePOWER, 5.3.1-155, Up
Other host: Primary - Active
Active time: 670 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.5): Normal (Monitored)
Interface inside (192.168.10.111): Normal (Monitored)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Unresponsive/Down)
ASA FirePOWER, 5.3.1-152, Not Applicable
```

Enable (event)服务模块监听。

要启用模块监听，请运行此命令：

```
ASA-FPWR/sec/stby# show failover
Failover On
Failover unit Secondary
Failover LAN Interface: folink GigabitEthernet0/6 (up)
Reconnect timeout 0:00:00
Unit Poll frequency 1 seconds, holdtime 15 seconds
Interface Poll frequency 5 seconds, holdtime 25 seconds
Interface Policy 1
Monitored Interfaces 2 of 316 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.3(3), Mate 9.3(3)
Last Failover at: 14:30:59 UTC Aug 6 2015
This host: Secondary - Standby Ready
Active time: 396 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.6): Normal (Monitored)
Interface inside (192.168.10.112): Normal (Monitored)
```



```
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
ASA FirePOWER, 5.3.1-155, Up
Other host: Primary - Active
Active time: 670 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.5): Normal (Monitored)
Interface inside (192.168.10.111): Normal (Monitored)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Unresponsive/Down)
ASA FirePOWER, 5.3.1-152, Not Applicable
```

验证服务模块启用。

服务模块命令不再否定。

```
ASA-FPWR/sec/stby# show failover
Failover On
Failover unit Secondary
Failover LAN Interface: folink GigabitEthernet0/6 (up)
Reconnect timeout 0:00:00
Unit Poll frequency 1 seconds, holdtime 15 seconds
Interface Poll frequency 5 seconds, holdtime 25 seconds
Interface Policy 1
Monitored Interfaces 2 of 316 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.3(3), Mate 9.3(3)
Last Failover at: 14:30:59 UTC Aug 6 2015
This host: Secondary - Standby Ready
Active time: 396 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.6): Normal (Monitored)
Interface inside (192.168.10.112): Normal (Monitored)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
ASA FirePOWER, 5.3.1-155, Up
Other host: Primary - Active
Active time: 670 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.5): Normal (Monitored)
Interface inside (192.168.10.111): Normal (Monitored)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Unresponsive/Down)
ASA FirePOWER, 5.3.1-152, Not Applicable
```

故障排除

问题1. ASA继续故障切换，并且此消息“卡在其他单元失败”的服务表示。

如果一个或许多故障切换事件检测，**show failover**历史记录可以用于认识可能的来源。

```
ASA-FPWR/sec/act# show failover history
=====
From State To State Reason
=====
14:38:58 UTC Aug 5 2015
Bulk Sync Standby Ready Detected an Active mate

14:39:05 UTC Aug 5 2015
Standby Ready Bulk Sync No Error

14:39:17 UTC Aug 5 2015
Bulk Sync Standby Ready No Error

14:48:12 UTC Aug 6 2015
```

Standby Ready Just Active Service card in other unit has failed

14:48:12 UTC Aug 6 2015

Just Active Active Drain Service card in other unit has failed

14:48:12 UTC Aug 6 2015

Active Drain Active Applying Config Service card in other unit has failed

14:48:12 UTC Aug 6 2015

Active Applying Config Active Config Applied Service card in other unit has failed

14:48:12 UTC Aug 6 2015

Active Config Applied Active Service card in other unit has failed

备用装置当前表示此消息：

```
ASA-FPWR/sec/act# show failover history
```

```
=====
```

```
From State To State Reason
```

```
=====
```

```
14:38:58 UTC Aug 5 2015
```

```
Bulk Sync Standby Ready Detected an Active mate
```

```
14:39:05 UTC Aug 5 2015
```

```
Standby Ready Bulk Sync No Error
```

```
14:39:17 UTC Aug 5 2015
```

```
Bulk Sync Standby Ready No Error
```

```
14:48:12 UTC Aug 6 2015
```

```
Standby Ready Just Active Service card in other unit has failed
```

```
14:48:12 UTC Aug 6 2015
```

```
Just Active Active Drain Service card in other unit has failed
```

```
14:48:12 UTC Aug 6 2015
```

```
Active Drain Active Applying Config Service card in other unit has failed
```

```
14:48:12 UTC Aug 6 2015
```

```
Active Applying Config Active Config Applied Service card in other unit has failed
```

```
14:48:12 UTC Aug 6 2015
```

```
Active Config Applied Active Service card in other unit has failed
```

如果“在其他单元的服务卡失败”消息被看到，故障切换发生，因为活动装置检测其自己的模块如无答复。

如果模块在“无答复的”状态坚持，受影响的ASA在失败的模式坚持。

```
ASA-FPWR/sec/stby# Waiting for the earlier webvpn instance to terminate...
Previous instance shut down. Starting a new one.
```

```
Switching to Active
```

```
ASA-FPWR/sec/act#
```

```
ASA-FPWR/sec/act# show failover
```

```
Failover On
```

```
Failover unit Secondary
```

```
Failover LAN Interface: folink GigabitEthernet0/6 (up)
```

```
Reconnect timeout 0:00:00
```

```
Unit Poll frequency 1 seconds, holdtime 15 seconds
```

```
Interface Poll frequency 5 seconds, holdtime 25 seconds
```

```
Interface Policy 1
Monitored Interfaces 2 of 316 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.3(3), Mate 9.3(3)
Last Failover at: 14:24:23 UTC Aug 6 2015
This host: Secondary - Active
Active time: 38 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.5): Normal (Waiting)
Interface inside (192.168.10.111): Normal (Waiting)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
ASA FirePOWER, 5.3.1-155, Up
Other host: Primary - Failed
Active time: 182 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.6): Normal (Waiting)
Interface inside (192.168.10.112): Normal (Waiting)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Unresponsive/Down)
ASA FirePOWER, 5.3.1-152, Not Applicable
```

解决方案

当排除故障问题的进一步步骤可以被实行了恢复模块时，服务模块监听可以禁用。

```
ASA-FPWR/sec/stby# Waiting for the earlier webvpn instance to terminate...
Previous instance shut down. Starting a new one.
```

```
Switching to Active
```

```
ASA-FPWR/sec/act#
ASA-FPWR/sec/act# show failover
Failover On
Failover unit Secondary
Failover LAN Interface: folink GigabitEthernet0/6 (up)
Reconnect timeout 0:00:00
Unit Poll frequency 1 seconds, holdtime 15 seconds
Interface Poll frequency 5 seconds, holdtime 25 seconds
Interface Policy 1
Monitored Interfaces 2 of 316 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.3(3), Mate 9.3(3)
Last Failover at: 14:24:23 UTC Aug 6 2015
This host: Secondary - Active
Active time: 38 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.5): Normal (Waiting)
Interface inside (192.168.10.111): Normal (Waiting)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
ASA FirePOWER, 5.3.1-155, Up
Other host: Primary - Failed
Active time: 182 (sec)
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
Interface outside (10.88.247.6): Normal (Waiting)
Interface inside (192.168.10.112): Normal (Waiting)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Unresponsive/Down)
ASA FirePOWER, 5.3.1-152, Not Applicable
```

问题2。我的ASA不支持9.3(1)或我不能升级它。如何能避免故障切换事件？

ASA5500系列的传统不支持9.3(1)版本，并且，即使他们不支持软件模块，有些有硬件模块例如CSC或IPS。

与新ASA5500-X系列，有有版本的一些设备在支持禁用监听的那个之下。

解决方案

如果有配置的策略通过流量到它，ASA只监控模块。因此，为了避免故障切换，模块策略可以删除。

了解使用的类映射和具体政策。

在这种情况下，此配置用于删除FirePOWER模块的流量转换。

```
class-map SFR
match any
class-map inspection_default
match default-inspection-traffic
!
!
policy-map type inspect dns migrated_dns_map_1
parameters
message-length maximum client auto
message-length maximum 512
policy-map global_policy
class inspection_default
inspect dns migrated_dns_map_1
inspect ftp
inspect h323 h225
inspect h323 ras
inspect ip-options
inspect netbios
inspect rsh
inspect rtsp
inspect skinny
inspect esmtp
inspect sqlnet
inspect sunrpc
inspect tftp
inspect sip
inspect xdmcp
class SFR
sfr fail-open
!
```

show service命令**策略[csc|cxsc|ips|sfr]**可以用于检测类映射和当前状态。

```
class-map SFR
match any
class-map inspection_default
match default-inspection-traffic
!
!
policy-map type inspect dns migrated_dns_map_1
parameters
message-length maximum client auto
message-length maximum 512
policy-map global_policy
class inspection_default
inspect dns migrated_dns_map_1
inspect ftp
inspect h323 h225
inspect h323 ras
inspect ip-options
```

```
inspect netbios
inspect rsh
inspect rtsp
inspect skinny
inspect esmtp
inspect sqlnet
inspect sunrpc
inspect tftp
inspect sip
inspect xdmcp
class SFR
sfr fail-open
!
```

禁用对模块的流量重定向。

在策略删除后，进一步流量没有从ASA发送到模块。

```
class-map SFR
match any
class-map inspection_default
match default-inspection-traffic
!
!
policy-map type inspect dns migrated_dns_map_1
parameters
message-length maximum client auto
message-length maximum 512
policy-map global_policy
class inspection_default
inspect dns migrated_dns_map_1
inspect ftp
inspect h323 h225
inspect h323 ras
inspect ip-options
inspect netbios
inspect rsh
inspect rtsp
inspect skinny
inspect esmtp
inspect sqlnet
inspect sunrpc
inspect tftp
inspect sip
inspect xdmcp
class SFR
sfr fail-open
!
```

验证对模块的ASA重定向禁用。

同样show命令可以用于验证流量不再去模块。输出一定是空的。

```
class-map SFR
match any
class-map inspection_default
match default-inspection-traffic
!
!
policy-map type inspect dns migrated_dns_map_1
parameters
message-length maximum client auto
```

```
message-length maximum 512
policy-map global_policy
class inspection_default
inspect dns migrated_dns_map_1
inspect ftp
inspect h323 h225
inspect h323 ras
inspect ip-options
inspect netbios
inspect rsh
inspect rtsp
inspect skinny
inspect esmtp
inspect sqlnet
inspect sunrpc
inspect tftp
inspect sip
inspect xdmcp
class SFR
sfr fail-open
!
```

即使模块是无答复的，活动装置在同一个角色依然是。

```
ASA-FPWR/pri/act# show module sfr
```

```
Mod Card Type Model Serial No.
```

```
-----
sfr FirePOWER Services Software Module ASA5545 FCH18457CNM
```

```
Mod MAC Address Range Hw Version Fw Version Sw Version
```

```
-----
sfr 74a0.2fa4.6c7a to 74a0.2fa4.6c7a N/A N/A 5.3.1-152
```

```
Mod SSM Application Name Status SSM Application Version
```

```
-----
sfr ASA FirePOWER Not Applicable 5.3.1-152
```

```
Mod Status Data Plane Status Compatibility
```

```
-----
sfr Unresponsive Not Applicable
```

```
ASA-FPWR/pri/act# show failover
```

```
Failover On
```

```
Failover unit Primary
```

```
Failover LAN Interface: folink GigabitEthernet0/6 (up)
```

```
Reconnect timeout 0:00:00
```

```
Unit Poll frequency 1 seconds, holdtime 15 seconds
```

```
Interface Poll frequency 5 seconds, holdtime 25 seconds
```

```
Interface Policy 1
```

```
Monitored Interfaces 2 of 316 maximum
```

```
MAC Address Move Notification Interval not set
```

```
Version: Ours 9.3(3), Mate 9.3(3)
```

```
Last Failover at: 14:51:20 UTC Aug 6 2015
```

```
This host: Primary - Active
```

```
Active time: 428 (sec)
```

```
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
```

```
Interface outside (10.88.247.5): Normal (Monitored)
```

```
Interface inside (192.168.10.111): Normal (Monitored)
```

```
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Unresponsive/Down)
```

```
ASA FirePOWER, 5.3.1-152, Not Applicable
```

```
Other host: Secondary - Standby Ready
```

```
Active time: 204 (sec)
```

```
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
```

```
Interface outside (10.88.247.6): Normal (Monitored)
Interface inside (192.168.10.112): Normal (Monitored)
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
ASA FirePOWER, 5.3.1-155, Up
```

Enable (event)对模块的流量重定向。

一旦流量需要被退还的到模块，FAIL开放或FAIL close策略可以是被添加的上一步。

```
ASA-FPWR/pri/act# show module sfr
```

```
Mod Card Type Model Serial No.
```

```
-----
sfr FirePOWER Services Software Module ASA5545 FCH18457CNM
```

```
Mod MAC Address Range Hw Version Fw Version Sw Version
```

```
-----
sfr 74a0.2fa4.6c7a to 74a0.2fa4.6c7a N/A N/A 5.3.1-152
```

```
Mod SSM Application Name Status SSM Application Version
```

```
-----
sfr ASA FirePOWER Not Applicable 5.3.1-152
```

```
Mod Status Data Plane Status Compatibility
```

```
-----
sfr Unresponsive Not Applicable
```

```
ASA-FPWR/pri/act# show failover
```

```
Failover On
```

```
Failover unit Primary
```

```
Failover LAN Interface: folink GigabitEthernet0/6 (up)
```

```
Reconnect timeout 0:00:00
```

```
Unit Poll frequency 1 seconds, holdtime 15 seconds
```

```
Interface Poll frequency 5 seconds, holdtime 25 seconds
```

```
Interface Policy 1
```

```
Monitored Interfaces 2 of 316 maximum
```

```
MAC Address Move Notification Interval not set
```

```
Version: Ours 9.3(3), Mate 9.3(3)
```

```
Last Failover at: 14:51:20 UTC Aug 6 2015
```

```
This host: Primary - Active
```

```
Active time: 428 (sec)
```

```
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
```

```
Interface outside (10.88.247.5): Normal (Monitored)
```

```
Interface inside (192.168.10.111): Normal (Monitored)
```

```
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-152) status (Unresponsive/Down)
```

```
ASA FirePOWER, 5.3.1-152, Not Applicable
```

```
Other host: Secondary - Standby Ready
```

```
Active time: 204 (sec)
```

```
slot 0: ASA5545 hw/sw rev (1.0/9.3(3)) status (Up Sys)
```

```
Interface outside (10.88.247.6): Normal (Monitored)
```

```
Interface inside (192.168.10.112): Normal (Monitored)
```

```
slot 1: SFR5545 hw/sw rev (N/A/5.3.1-155) status (Up/Up)
```

```
ASA FirePOWER, 5.3.1-155, Up
```