

如何比较Firepower设备上的NAP策略

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简介

本文档介绍如何比较由Firepower管理中心(FMC)管理的firepower设备的不同网络分析策略(NAP)。

先决条件

要求

Cisco 建议您了解以下主题：

- 开源Snort知识
- Firepower管理中心(FMC)
- Firepower威胁防御(FTD)

使用的组件

本文档中的信息基于以下软件和硬件版本：

- 本文适用于所有Firepower平台
- 运行软件版本6.4.0的思科Firepower威胁防御(FTD)
- 运行软件版本6.4.0的Firepower管理中心虚拟(FMC)

背景信息

Snort使用模式匹配技术来查找和防止网络数据包中的漏洞。为此，Snort引擎需要准备网络数据包，以便进行此比较。此过程在NAP的帮助下完成，可以经历以下三个阶段：

- 解码
- 规范化
- 预处理

网络分析策略分阶段处理数据包：首先，系统通过前三个TCP/IP层对数据包进行解码，然后继续进行规范化、预处理和检测协议异常。

预处理器提供两个主要功能：

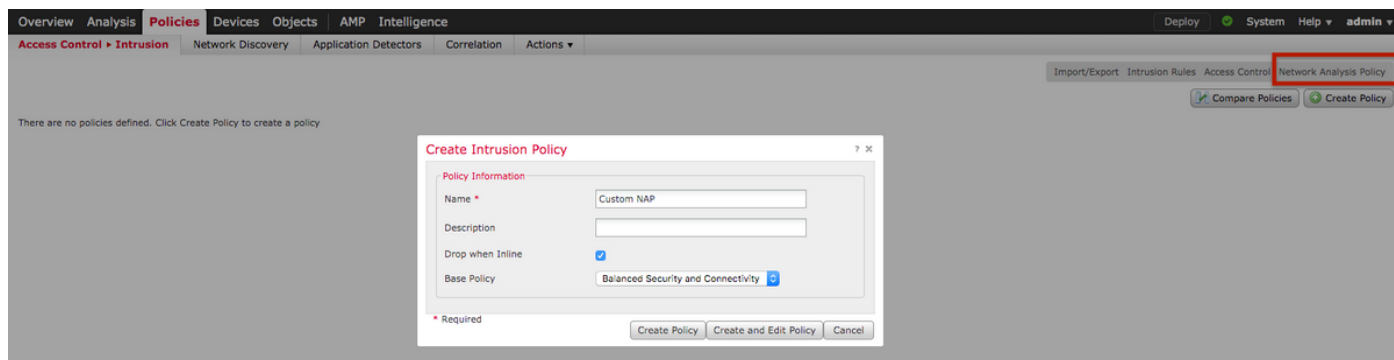
- 流量规范化以进一步检查
- 识别协议异常

：

有关开源Snort的信息，请访问 <https://www.snort.org/>

检验NAP配置

要创建或编辑firepower NAP策略，请导航至**FMC Policies > Access Control > Intrusion**，然后单击右上角的**Network Analysis Policy**选项，如图所示：



Network Analysis Policy	Inline Mode	Status	Last Modified
Test1	Yes	No access control policies use this policy. Policy not applied on any devices	2019-12-30 02:13:49 Modified by "admin"
Test2*	Yes	You are currently editing this policy. No access control policies use this policy. Policy not applied on any devices	2019-12-30 02:14:24 Modified by "admin"

(ACP)(NAP)

>ACPAdvanced Network Analysis and Intrusion Policies

ACP:

Overview Analysis **Policies** Devices Objects AMP Intelligence

Access Control ▶ Access Control Network Discovery Application Detectors Correlation Actions ▼

Test

Enter Description

Prefilter Policy: [Default Prefilter Policy](#) SSL Policy: [None](#)

Rules Security Intelligence HTTP Responses Logging **Advanced**

General Settings

Maximum URL characters to store in connection events 1024

Allow an Interactive Block to bypass blocking for (seconds) 600

Retry URL cache miss lookup Yes

Network Analysis and Intrusion Policies

Intrusion Policy used before Access Control rule is determined

Intrusion Policy Variable Set

Network Analysis Rules [No Custom Rules](#) [Network Analysis Policy List](#)

Default Network Analysis Policy

Network Analysis and Intrusion Policies

Intrusion Policy used before Access Control rule is determined [Balanced Security and Connectivity](#)

Intrusion Policy Variable Set [Default Set](#)

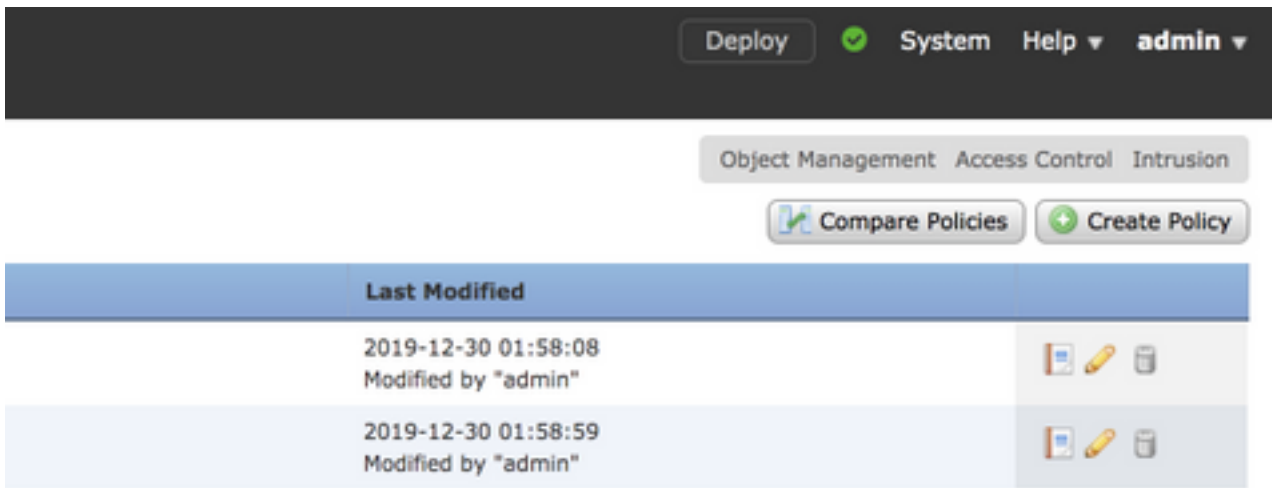
Default Network Analysis Policy [Balanced Security and Connectivity](#)

Balanced Security and Connectivity for Intrusion Policies
Balanced Security and Connectivity for Network Analysis
 Short

比较网络分析策略(NAP)

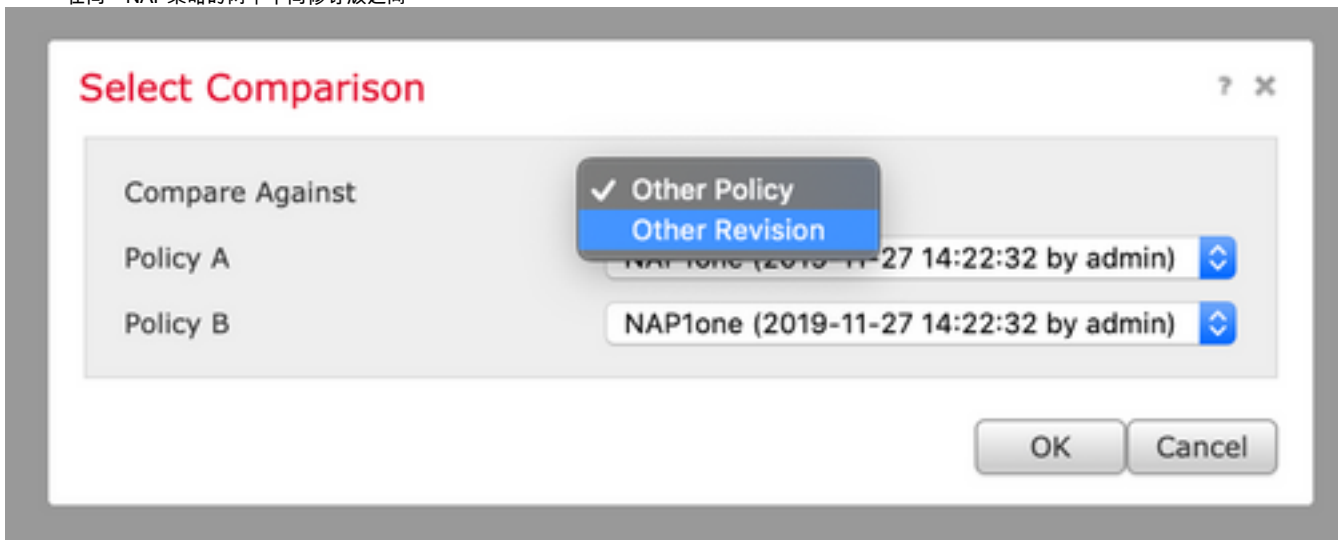
可以比较NAP策略所做的更改，此功能有助于识别和排除问题。此外，还可以同时生成和导出NAP比较报告。

导航至Policies > Access Control > Intrusion。然后，单击右上角的“网络分析策略”选项。在NAP策略页面下，您可以看到右上方的“比较策略”选项卡，如图所示：



网络分析策略比较有两种形式：

- 在两个不同的NAP策略之间
- 在同一NAP策略的两个不同修订版之间



比较窗口提供两个选定NAP策略之间的逐行比较，可以从右上角的“比较报告”(comparison report)选项卡导出报告，如图所示：

Back Comparison Report New Comparison

Previous Next (Difference 1 of 114)

Test1 (2019-12-30 02:13:49 by admin)	Test2 (2019-12-30 02:14:24 by admin)
Policy Information	
Name: Test1	Name: Test2
Modified: 2019-12-30 02:13:49 by admin	Modified: 2019-12-30 02:14:24 by admin
Base Policy: Connectivity Over Security	Base Policy: Maximum Detection
Settings	
Checksum Verification	
ICMP Checksums: Enabled	ICMP Checksums: Disabled
IP Checksums: Enabled	IP Checksums: Drop and Generate Events
TCP Checksums: Enabled	TCP Checksums: Drop and Generate Events
UDP Checksums: Enabled	UDP Checksums: Disabled
DCE/RPC Configuration	
Servers	
default	
SMB Maximum AndX Chain: 3	SMB Maximum AndX Chain: 5
RPC over HTTP Server Auto-Detect Ports: Disabled	RPC over HTTP Server Auto-Detect Ports: 1024-65535
TCP Auto-Detect Ports: Disabled	TCP Auto-Detect Ports: 1024-65535
UDP Auto-Detect Ports: Disabled	UDP Auto-Detect Ports: 1024-65535
SMB File Inspection Depth: 16384	SMB File Inspection Depth: 16384
Packet Decoding	
Detect Invalid IP Options: Disabled	Detect Invalid IP Options: Enable
Detect Obsolete TCP Options: Disabled	Detect Obsolete TCP Options: Enable
Detect Other TCP Options: Disabled	Detect Other TCP Options: Enable
Detect Protocol Header Anomalies: Disabled	Detect Protocol Header Anomalies: Enable
DNS Configuration	
Detect Obsolete DNS RR Types: No	Detect Obsolete DNS RR Types: Yes
Detect Experimental DNS RR Types: No	Detect Experimental DNS RR Types: Yes
FTP and Telnet Configuration	
FTP Server	
default	

为了比较同一-NAP策略的两个版本，可以选择修订版选项来选择所需的修订版ID，如图所示：

Select Comparison ? X

Compare Against	Other Revision ⌵
Policy	Test1 (2019-12-30 02:13:49 by admin) ⌵
Revision A	2019-12-30 02:13:49 by admin ⌵
Revision B	2019-12-30 01:58:08 by admin ⌵

OK
Cancel

Back

Previous Next (Difference 1 of 13)

Comparison Report New Comparison

Test1 (2019-12-30 02:13:49 by admin)	
Policy Information	
Modified	2019-12-30 02:13:49 by admin
Base Policy	Connectivity Over Security
Settings	
CSP Configuration Disabled	
DCE/RPC Configuration	
Servers	
default	
RPC over HTTP Server Auto-Detect Ports	Disabled
TCP Auto-Detect Ports	Disabled
UDP Auto-Detect Ports	Disabled
HTTP Configuration	
Servers	
default	
Ports	80, 443, 1220, 1741, 2301, 3
Server Flow Depth	300
SSL Configuration	
Ports	443, 465, 563, 636, 989, 992
TCP Stream Configuration	
Servers	
default	
Perform Stream Reassembly on Client Ports	21, 23, 25, 42, 53, 80, 135, 1
Perform Stream Reassembly on Client Services	CYS, DCE/RPC, DNS, , HTTP,
Perform Stream Reassembly on Both Ports	5000, 9800, 9111

Test1 (2019-12-30 01:58:08 by admin)	
Policy Information	
Modified	2019-12-30 01:58:08 by admin
Base Policy	Balanced Security and Connec
Settings	
DCE/RPC Configuration	
Servers	
default	
RPC over HTTP Server Auto-Detect Ports	1024-65535
TCP Auto-Detect Ports	1024-65535
UDP Auto-Detect Ports	1024-65535
HTTP Configuration	
Servers	
default	
Ports	80, 443, 1220, 1741, 2301, 2
Server Flow Depth	500
SSL Configuration	
Ports	443, 465, 563, 636, 989, 992
TCP Stream Configuration	
Servers	
default	
Perform Stream Reassembly on Client Ports	21, 23, 25, 42, 53, 135, 136,
Perform Stream Reassembly on Client Services	CYS, DCE/RPC, DNS, , IMAP,
Perform Stream Reassembly on Both Ports	80, 443, 465, 636, 992, 993,
Perform Stream Reassembly on Both Services	HTTP