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
 - :

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:

Overview Analysis Policies Devices Objects AMP Intellic	ence	Deploy 📀 System Help 🛪 admin 🛪
Access Control > Intrusion Network Discovery Application Detector	Correlation Actions •	
There are no policies defined. Click Create Policy to create a policy		Import/Export Intrusion Rules Access Control Network Analysis Policy
	Create Intrusion Policy 7 × Policy Information Name * Custom NAP Description Drop when Inline Base Policy Balanced Security and Connectivity * Required Create Policy Create and Edit Policy Cancel	
Overview Analysis Policies Devices Objects AMP Intellige	nce	Deploy © System Help v admin v
		Object Management Access Control Intrasion
		Create Policies
Network Analysis Policy Inline Mode	Status	Last Modified
Testi Yes	No access control policies use this policy Policy not applied on any devices	2019-12-30 02:13:49 Modified by "admin"

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"

200

(ACP)(NAP)

>ACPAdvanced Network Analysis and Intrusion Policies

ACP:

Test2*

Overview	Analysis Policies	Devices Of	ojects AMI	P Intelligence				
Access Co	ntrol + Access Control	Network Dis	covery App	lication Detectors	Correlation	Actions 🔻		
Test								
Enter Descrip	otion							
Prefilter Pol	icy: Default Prefilter Policy			SSL Policy: None				
Rules S	Security Intelligence	TTP Responses		dvanced				
General S	ettings							12
General S		- connection over						024
Maximum	UKL characters to store i	n connection ever	105				10	024
Allow an Ir	iteractive Block to bypas	s blocking for (se	conds)				,	600
Retry URL	cache miss lookup							Yes
Inspect t	Network Analysis ar	d Intrusion Po	licies				?	×
Identity	Intrusion Policy used before rule is determined	ore Access Control	Balanced Sec	urity and Connectivity	,		~	U
Identity I	Intrusion Policy Variable	Set	Default-Set				 ✓ 	
SSL Poli	Network Analysis Rules		No Custom Ru	les	Ne	twork Analysis I	Policy List	11
SSL Polic	Default Network Analysis	Policy	Balanced Sec	urity and Connectivity	,		~	11
Prefilter								
Prefilter I	Revert to Defaults					ок	Cancel	
Network A	Analysis and Intrusic	on Policies					Г	Ø
Intrusion P	olicy used before Access	Control rule is d	etermined		Ba	alanced Security	and Connectiv	vity
Intrusion P	olicy Variable Set						Default	Set
Default Net	twork Analysis Policy				Ba	alanced Security	and Connection	vity

Balanced Security and Connectivity for Intrusion PoliciesBalanced Security and Connectivity for Network AnalysisSnort

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:

	Deploy 🥝 System Help 🔻 admin 🔻
	Object Management Access Control Intrusion
Last Modified	
2019-12-30 01:58:08 Modified by "admin"	🖻 🥔 🗎
2019-12-30 01:58:59 Modified by "admin"	🖪 🥔 🛱

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

Compare Against	✓ Other Policy Other Revision 27 14:22:32 by admin)
Policy B	NAP1one (2019-11-27 14:22:32 by admin)
roney b	

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:

Frevious 🍸 Next (Ofference 1 of 114)			🛃 Comparison Report 🍓 New Comparison
fest1 (2019-12-30 02:13:49 by admin)		Test2 (2019-12-30 02:14:24 by admin)	
folicy Information		Policy Information	
Name	Text	+ Name	Test2
Modified	2019-12-30 02:13:49 by edm	Modified	2019-12-30 02:14:24 by adm
Base Policy	Contectivity Over Security	Base Policy	Maximum Detection
Settings		Settings	
Checksum Verification		Checksum Verification	
3CMP Checksums	Enabled	3CHP Checksoms	Disabled
19 Checksums	Enabled	JP Checksums	Drop and Generate Events
TCP Checksums	Enabled	TCP Checksums	Drop and Generate Events
UDP Checksums	Enabled	UDP Checksums	Disabled
DCE/RPC Configuration		DCt/RPC Configuration	
Servers		Servers	
default		default	
SMB Maximum AndX Otain	3	SH8 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
SM8 File Inspection Depth	16384	SH8 File Inspection Depth	
Packet Decoding		Packet Decoding	
Detect Invalid IP Options	Disable	Detect Invalid IP Options	Enable
Detect Obsolete TCP Options	Disable	Detect Obsolete TCP Options	Crable
Detect Other TCP Options	Disable	Detect Other TCP Options	Enable
Detect Protocol Header Anomalies	Disable	Detect Protocol Header Anomalies	Enable
DNS Configuration		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 Teinet Configuration		PTP and Teinet Configuration	
FTP Server		FTP Server	
default.		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	2 %
Compare Against	Other Revision ᅌ
Policy	Test1 (2019-12-30 02:13:49 by admin)
Revision B	2019-12-30 02:13:49 by admin
	OK Cancel

fest1 (2019-12-30 02:13:49 by admin)	
Policy Information	
Modified	2019-12-30 02:13:49 by adm
Base Policy	Connectivity Over Security
iettings	
CIP Configuration	D issub led
DCE/RPC Configuration	
Servera	
default	
RPC over HTTP Server Auto-Detect Ports	D taub ked
TCP Auto-Detect Ports	Disabled
UDP Auto-Detect Ports	Disability
HTTP Configuration	
Servera	
default	
Ports	80, 443, 1220, 1741, 2301, 3
Server Row 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	CVS, DCE/RPC, DNS, , HTTP,
Perform Stream Reassembly on Both Ports	5000, 6800, 9111

Test1 (2019-12-30 01:58:08 by admin)	
Reflex Telesentine	
Ballow Tedeserables	
Policy Information	
Modified	2019-12-30 01:58:08 by adm
Base Policy	Balanced Security and Connex
Settings	
DCE/RPC Configuration	
Servera	
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 Row 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	CVS, DCE/RPC, DNS, , DHAP,
Perform Stream Reasonably on Both Ports	80, 443, 465, 636, 992, 993,
Perform Stream Reasonably on Both Services	нттр