配置Duo和安全终端以响应威胁

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简介



本文档介绍如何将Duo Trusted EndPoint与Cisco Secure EndPoint集成。

背景信息

Cisco Secure EndPoint和Duo之间的集成允许针对在受信任的网络设备上检测到的威胁进行有效的 协作。这种集成是通过多个设备管理工具来实现的,这些工具可确定每台设备的可靠性。其中一些 工具包括:

- Active Directory 域服务
- Active Directory与设备运行状况
- 设备运行状况通用
- Intune with Device Health
- Jamf Pro,带设备健康功能
- LANDESK管理套件
- Mac OS X企业资产管理工具
- 使用设备运行状况进行手动
- Windows企业资产管理工具
- 工作空间ONE与设备运行状况

设备与设备管理工具集成后,可通过以下方式集成思科安全终端和双核: API 如果 Administration Panel.随后,必须在Duo中配置相应的策略,以执行可信设备验证,并检测可能会影响Duo保护的应用程序的被入侵设备。

💊 注意:在本例中,我们使用Active Directory和设备运行状况。

先决条件

- Active Directory进行集成。
- 要将Duo与受信任终端集成,您的设备必须在Active Directory域中注册。这使得Duo能够安全 地验证和授权对网络资源和服务的访问。
- 超乎想象的双人组。

配置和使用案例

配置Duo集成

登录到 Admin Panel 并转至:

- Trusted EndPoints > Add Integration
- 选择 Active Directory Domain Services

Add Management Tools Integration 222 days left



(Get-ADDomain | Format-Table -Property DomainSID -HideTableHeaders | Out-String).Trim() | clip

PS C:\Users\Administrator> (Get-ADDomain | Format-Table -Property DomainSID -HideTableHeaders | Out-String).Trim() | clip PS C:\Users\Administrator> |

之后,请确保您已将Active Directory的安全标识符复制到剪贴板。

示例

S-1-5-21-2952046551-2792955545-1855548404

这用于您的Active Directory和设备运行状况集成。

Windows



点击 Save 并启用集成 Activate for all. 否则,您无法与思科安全终端集成。

Change Integration Status

Once this integration is activated, Duo will start reporting your devices as trusted or not trusted on the endpoints page i and the device insight page i.

	on is active
Your users	will be prompted to run a check when logging in on their mobile devices
Test with a group	Select a group
See Duo's document	ation on how to create a desired testing environment 🗹
Activate for all	
Save	

转到 Trusted EndPoints > Select Endpoint Detection & Response System > Add this integration.



现在,您处于思科安全终端集成主页上。

Cisco Secure Endpoint 222 days left

1. Generate Cisco Secure Endpoint Credentials

- Login to the Cisco Secure Endpoint console
- Navigate to "Accounts > API Credentials".
- Click "New API Credentials".
- 4. Give the credentials a name and make it read-only.
- 5. Click "Create".
- 6. Copy the Client Id and API Key and return to this screen.

2. Enter Cisco Secure Endpoint Credentials

Client ID

Enter Client ID from Part 1.

API key

Enter API Key from Part 1.

Hostname

https://api.eu.amp.cisco.com/

Test Integration

要尝试使用EICAR示例测试该功能,请访问<u>https://www.eicar.org/</u>,并下载恶意示例。

💊 注:不要担心。您可以下载该EICAR测试,它是安全的,并且它只是一个测试文件。



向下滚动并转到部分并下载测试文件。

Download area using the secure, SSL enabled protocol HTTPS						
<u>eicar.com</u>	<u>eicar.com.txt</u>	eicar_com.zip	eicarcom2.zip			
68 Bytes	68 Bytes	184 Bytes	308 Bytes			

Cisco Secure EndPoint会检测恶意软件并将其移至隔离区。



这是更改的方式,如Cisco Secure EndPoint Admin面板所示。

►	DESKTOP-R2CH8G5.taclab.com detected e8fed9f1-712e-4072-a334-e3f7b662c1e5.tmp as Win.Ransomware.Eicar::95.sbx.tg	<u>■</u> ₽ <u>₽</u> ₽ ()	Quarantine: Successful	2023-02-17 00:59:18 UTC
►	DESKTOP-R2CH8G5.taclab.com detected Unconfirmed 800728.crdownload as Win.Ransomware.Eicar::95.sbx.tg	<u>■</u> ₽ <u>₽</u> ₽ 🖾	Quarantine: Successful	2023-02-17 00:59:18 UTC
•	DESKTOP-R2CH865.taclab.com detected e8fed9f1-712e-4072-a334-e3f7b662c1e5.tmp as Win.Ransomware.Eicar::95	📭 🗗 🗗	Threat Detected	2023-02-17 00:59:18 UTC
►	DESKTOP-R2CH8G5.taclab.com detected Unconfirmed 800728.crdownload as Win.Ransomware.Eicar::95.sbx.tg	<u>р</u> ы 🗗 🗗	Threat Detected	2023-02-17 00:59:18 UTC
►	DESKTOP-R2CH8G5.taclab.com detected a7bea0f0-88d0-4113-aba4-3696d10e98e8.tmp as Win.Ransomware.Eicar::95.sbx.tg	<u>р</u> ы 🗗 📳	Quarantine: Failed	2023-02-17 00:59:18 UTC
►	DESKTOP-R2CH8G5.taclab.com detected a7bea0f0-88d0-4113-aba4-3696d10e98e8.tmp as Win.Ransomware.Eicar::95	►P 🖵 🗗	Threat Detected	2023-02-17 00:59:18 UTC
►	DESKTOP-R2CH8G5.taclab.com detected Unconfirmed 677327.crdownload as Win.Ransomware.Eicar::95.sbx.tg	📭 🗗 🗗	Threat Detected	2023-02-17 00:59:18 UTC
•	DESKTOP-R2CH8G5.taclab.com detected c57863dd-1603-4f85-b512-d62b84160bc0.tmp as Win.Ransomware.Eicar::95	₽ Р 🖓 🗗	Threat Detected	2023-02-17 00:59:18 UTC
►	DESKTOP-R2CH8G5.taclab.com detected Unconfirmed 677327.crdownload as Win.Ransomware.Eicar::95.sbx.tg	<u>▶</u> ₽ ₽ ₽ ()	Quarantine: Successful	2023-02-17 00:59:18 UTC
►	DESKTOP-R2CH8G5.taclab.com detected c57863dd-1603-4f85-b512-d62b84160bc0.tmp as Win.Ransomware.Eicar::95.sbx.tg	<u></u>	Quarantine: Failed	2023-02-17 00:59:18 UTC

您还检测到计算机中的恶意软件,但这意味着终端将被视为在上的Cisco Secure EndPoint Inbox.

注意:要将终端发送到分类程序,需要多次检测对象或异常行为,以激活某些 Indicators of Compromise 在终端中。

在 Dashboard , 在 Inbox.

	Secure Endpoint Premier	
	Dashboard Analysis V Outbreak Control V Managem	nent ~ Accounts ~
Das	ashboard Inbox Overview Events iOS Clarity	
Refre	fresh All 🔲 Auto-Refresh 🗸 🕜	

现在,您拥有一台需要关注的机器。

1 Requires Attention ⊙ 0 In Progress							
□ O Begin Work O Mark Resolved & Move to Group X Promote to Incident Manager Sort Date ✓							
🗆 🔻 觸 DESKTOP-R	□ ▼ # DESKTOP-R2CH8G5.taclab.com in group DUO						
Hostname	DESKTOP-R2CH8G5.taclab.com	Group	也	DUO			
Operating System	Windows 10 Enterprise N (Build 19045.2604)	Policy	licy 🌣 DUO				
Connector Version	8.1.5.21322	Internal IP		172.16.200.22 🗸			
Install Date	2023-02-13 11:47:36 UTC	External IP		173.38.220.51 🗸			
Connector GUID	fe066900-9075-4473-ade7-4a7fc998dbfb	Last Seen		2023-02-17 01:02:51 UTC			
Processor ID 1f8bfbff000006e7		Definition Version		TETRA 64 bit (daily version: 90043)			
Definitions Last Updated	2023-02-16 22:30:07 UTC	Update Server tetra-defs.eu.amp.cisco.com					
Cisco Secure Client ID	N/A	Kenna Risk Score	• • • •	No high severity vulnerabilities found.			
Related Compromise Events Vulnerabilities							
Medium Quarantine Failure 2546dcff6e9eedad 2023-02-17 00:59:18 UTC Medium Threat Quarantined 2546dcff6e9eedad 2023-02-17 00:59:18 UTC Medium Threat Detected 2546dcff6e9eedad 2023-02-17 00:59:18 UTC Image: Comparison of the second of the s							
(•				
	Q Scan V Diagnose 😃 Move to G	roup 💿 Begin	Work 🛛	Mark Resolved X Promote to Incident Manager			

现在,切换到Duo并查看状态。

首先尝试进行身份验证,以查看计算机在下面的Cisco Secure EndPoint上的行为 Require Attention.



这是它如何在Duo中更改以及身份验证事件下的事件如何显示。



检测到您的计算机不是组织的安全设备。

审阅后允许访问计算机

Triage

REQUIRE ATTENTION

The machine was detected with many malicious detections or active IOC which makes doubt about determine what to do with the alerts detected the status of the machine

IN PROGRESS

Cybersecurity Team checks the device to and see how to proceed under triage status RESOLVED

The Cybersecurity Team marked the status of the machine as resolved.

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A thorough analysis was conducted on the machine, and it was found that the malware did not execute due to the intervention of Cisco Secure Endpoint. Only traces of the malware were detected, enabling the Cybersecurity Engineers to incorporate the identified indicators of compromise into other security systems to block the attack vector through which the malware was downloaded.

Machine on triage status in **Cisco Secure Endpoint**

在Cisco Secure EndPoint和网络安全专家进行验证后,您可以在双核允许访问此计算机到您的应用 o

现在的问题是如何允许再次访问由Duo保护的应用。

您需要使用思科安全终端和 Inbox,将此设备标记为 resolved 允许访问受Duo保护的应用程序。

0 Require Attention	⊙ 1 In Progress	Showing specific compromises Show All					
□ I E Focus I Mark Resolved 4th Move to Group X Promote to Incident Manager Sort Date V □ ⊕							
🗌 🔻 🗱 DESKTOP-R2	V III DESKTOP-R2CH8G5.taclab.com in group DUO O 10 events						
Hostname	DESKTOP-R2CH8G5.taclab.com	Group 😃	DUO				
Operating System	Windows 10 Enterprise N (Build 19045.2604)	Policy 🔅	DUO				
Connector Version	8.1.5.21322	Internal IP 172.16.200.22 🗸					
Install Date	2023-02-13 11:47:36 UTC	External IP	173.38.220.51 🗸				
Connector GUID	fe066900-9075-4473-ade7-4a7fc998dbfb	Last Seen	2023-02-17 01:02:51 UTC				
Processor ID	1f8bfbff000006e7	Definition Version	TETRA 64 bit (daily version: 90043)				
Definitions Last Updated	2023-02-16 22:30:07 UTC	Update Server	tetra-defs.eu.amp.cisco.com				
Cisco Secure Client ID	N/A	Kenna Risk Score	No high severity vulnerabilities found.				
Related Compromise E	vents 0	Vulnerab	ilities				
Medium Quarantine Failure 2546dcff6e9eedad Image: Constraint of the constrain							
Take Forensic Snapsh	ot View Snapshot Crbital Query	-0 Events 💱	Device Trajectory & Diagnostics () View Changes				
	Q Scan & Diagnose	Mark Resolved X Promote to Incident Manager					



简而言之,现在您已经准备好再次测试对我们受Duo保护的应用程序的访问情况。

Primary	Choose an authentication method	
Priority response Cisco Solution Support Coordinates product support teams After ages case to resolution	Duo Push RECOMMENDED	Send Me a Push
	Passcode	Enter a Passcode
What is this? C Need help?		
Secured by Duo		

现在,您拥有了将推送发送到Duo的权限,并且您已登录该应用。

1:20:41 AM FEB 17, 2023	✓ Granted User approved	duotrusted	Splunk	Policy not applied	 Windows 10, vers As reported by Device Hostname DES Edge Chromium Flash Java Device Health Ap Installed Firewall Encryption Password Security Agents Location Unknow Trusted Endpoint determined by Device H 	sion 22H2 (19045.2604) se Health SKTOP-R2CH8G5 110.0.1587.46 Not installed plication Off Off Set Running: Cisco Secure Endpoint n	> Duo Push Krakow, 12, Poland
分类工作流 12:41:20 AM	✓ Granted			1 The machin	o io in tho first s	tara without infontion	
FEB 17, 2023 1:06:37 AM FEB 17, 2023	User approved X Denied Blocked by Cisco Se	cure Endpoint		2. The machin	e is in the secon	nd stage, some malici	ous artifacts or
1:20:41 AM FEB 17, 2023	 Granted User approved 		\checkmark	3. The machine was detected safely by the Cybersecurity Specialist Team, and now was removed from the triage in Cisco Secure EndPoint			

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言,希望全球的用户都能通过各 自的语言得到支持性的内容。

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