配置Duo和安全終端以響應威脅

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<u>審閱後允許訪問電腦</u>	使用思科安全終端測試受信任的電腦
	<u>審閱後允許訪問電腦</u>

簡介



本文檔介紹如何將Duo Trusted EndPoint與Cisco Secure EndPoint整合。

背景資訊

思科安全終端和Duo之間的整合可針對在受信任的網路裝置上檢測到的威脅進行有效合作。這種整 合是通過多個裝置管理工具實現的,這些工具確定了每個裝置的可靠性。這些工具包括:

- Active Directory域服務
- 具有裝置運行狀況的Active Directory
- 與裝置運行狀況共用
- · Intune with Device Health
- 含裝置健康狀態的Jamf Pro
- LANDESK管理套件
- Mac OS X企業資產管理工具
- 裝置運行狀況手冊
- Windows企業資產管理工具
- 具有裝置運行狀況的工作空間ONE

裝置與裝置管理工具整合後,可通過以下方式整合思科安全終端和Duo API 在 Administration Panel.隨後 ,必須在Duo中配置相應的策略,以執行可信裝置驗證並檢測可能會影響Duo保護的應用程式的受 危害裝置。

≫ 注意:在這種情況下,我們使用Active Directory和裝置健康狀況。

必要條件

- 進行整合的Active Directory。
- 要將Duo與受信任的終端整合,您的裝置必須在Active Directory域中註冊。這允許Duo安全地 驗證和授權對網路資源和服務的訪問。
- Duo Beyond Plan.

配置和使用案例

配置Duo中的整合

登入到 Admin Panel 並轉至:

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

Add Management Tools Integration 222 days left

Device Management Tools Endpoint Detection & Response Systems

Management Tools



Windows

Add

之後,系統會將您重新導向至 Active Directory and Device Health.

請考慮這隻適用於域中的電腦。

轉到Active Directory並在PowerShell中運行下一個命令:

(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> |

之後,請確保您已將Active Directory的安全識別符號複製到剪貼簿。

範例

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

這用於Active Directory和裝置運行狀況整合。

Windows



This integration is currently disabled. You can test it with a group of users before activating it for all.

1. Login to the domain controller to which endpoints are joined

2. Open PowerShell

3. Execute the following command, then retrieve the domain Security Identifier (SID) from your clipboard After running the command, the domain SID will be copied to your clipboard. The SID is used to know if your user's computer is joined to the domain controller.

	(Get-ADDomain Format-Table -Property DomainSID -HideTableHeaders Out-String).Trim() clip	Сору
4	Pasta the domain SID	
4.		
L		
	Ex. S-1-5-21-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
₹— ⁻	下 Save 並啟用整合和 Activate for all. 否則,您將無法與思科安全終端整合。	

Change Integration Status

Once this integration is activated, Duo will start reporting your devices as trusted or not trusted on the endpoints page 2 and the device insight page 2.

	Integratio	on is active	
	Your users	will be prompted to run a check when logging	g in on their mobile devices
Test w	ith a group	Select a group	•
See Du	uo's document	ation on how to create a desired testing envir	ronment 🖸
Activa	ite for all		
Save			
Trusted EndPoint	ts > Select Endpo	oint Detection & Response System > Add this integration	on.
Trusted EndPoint	ts > Select Endpo	oint Detection & Response System > Add this integration	on.
Trusted EndPoint Management Tools	ts > Select Endpo Endpoint Detectio	oint Detection & Response System > Add this integration on & Response Systems Add this integration	Note Cisco Secure Endpoint requires one of the
Trusted EndPoint Management Tools	ts > Select Endpo Endpoint Detectio	oint Detection & Response System > Add this integration on & Response Systems Add this integration	Note Cisco Secure Endpoint requires one of the following device management tools to be end • Active Directory Domain Services
Trusted EndPoint Management Tools	ts > Select Endpo Endpoint Detectio	oint Detection & Response System > Add this integration on & Response Systems Add this integration	Note Cisco Secure Endpoint requires one of the following device management tools to be end • Active Directory Domain Services • Active Directory with Device Health
Trusted EndPoint Management Tools	ts > Select Endpo Endpoint Detectio	oint Detection & Response System > Add this integration on & Response Systems Add this integration	Note Cisco Secure Endpoint requires one of the following device management tools to be end • Active Directory Domain Services • Active Directory with Device Health • Generic with Device Health
Trusted EndPoint Management Tools	ts > Select Endpo Endpoint Detectio	oint Detection & Response System > Add this integration on & Response Systems Add this integration	Note Cisco Secure Endpoint requires one of the following device management tools to be end • Active Directory Domain Services • Active Directory with Device Health • Generic with Device Health • Intune with Device Health
Trusted EndPoint	ts > Select Endpo Endpoint Detectio Secure Endpoint	oint Detection & Response System > Add this integration on & Response Systems Add this integration We integrated this in the previous steps	Note Cisco Secure Endpoint requires one of the following device management tools to be end • Active Directory Domain Services • Active Directory with Device Health • Generic with Device Health • Intune with Device Health • Jamf Pro with Device Health
Trusted EndPoint	ts > Select Endpo Endpoint Detectio Secure Endpoint	on & Response Systems Add this integration Add this integration We integrated this in the previous steps	Note Cisco Secure Endpoint requires one of the following device management tools to be end • Active Directory Domain Services • Active Directory with Device Health • Generic with Device Health • Intune with Device Health • Jamf Pro with Device Health • LANDESK Management Suite
Trusted EndPoint	ts > Select Endpo Endpoint Detectio Secure Endpoint	on & Response Systems Add this integration Add this integration We integrated this in the previous steps	Note Cisco Secure Endpoint requires one of the following device management tools to be end • Active Directory Domain Services • Active Directory with Device Health • Generic with Device Health • Intune with Device Health • Jamf Pro with Device Health • LANDESK Management Suite • Mac OS X Enterprise Asset Managemen Tool
Trusted EndPoint	ts > Select Endpo Endpoint Detectio Secure Endpoint	on & Response Systems Add this integration Add this integration We integrated this in the previous steps	Note Cisco Secure Endpoint requires one of the following device management tools to be ena • Active Directory Domain Services • Active Directory with Device Health • Generic with Device Health • Intune with Device Health • Jamf Pro with Device Health • LANDESK Management Suite • Mac OS X Enterprise Asset Managemen Tool • Manual with Device Health
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現在,您將進入思科安全終端整合首頁。

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

若要嘗試使用EICAR範例來測試功能,請存取<u>https://www.eicar.org/</u>,並下載惡意範例。

≫ 註:不要擔心。您可以下載該EICAR測試,它是安全的,它只是一個測試檔案。



向下滾動並轉到部分並下載測試檔案。



思科安全終端檢測到惡意軟體並將其移動到隔離區。



這是更改的方式,如思科安全終端管理面板所示。

۲	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
۲	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
۲	DESKTOP-R2CH8G5.taclab.com detected e8fed9f1-712e-4072-a334-e3f7b662c1e5.tmp as Win.Ransomware.Eicar::95	<u>■</u> ₽ <u>₽</u> ₽ 日	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>■</u> ₽ <u>₽</u> ₽ 日	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>■</u> ₽ <u>₽</u> ₽ (Quarantine: Failed	2023-02-17 00:59:18 UTC
۲	DESKTOP-R2CH8G5.taclab.com detected a7bea0f0-88d0-4113-aba4-3696d10e98e8.tmp as Win.Ransomware.Eicar::95	<u>■</u> ₽ <u>₽</u> ₽ 日	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> ₽ <u>₽</u> ₽ 日	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	<u>■</u> ₽ <u>₽</u> ₽ 日	Threat Detected	2023-02-17 00:59:18 UTC
۲	DESKTOP-R2CH8G5.taclab.com detected Unconfirmed 677327.crdownload 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 c57863dd-1603-4f85-b512-d62b84160bc0.tmp as Win.Ransomware.Eicar::95.sbx.tg	<u>■</u> ₽ <u>₽</u> ₽ <u><u></u><u></u></u>	Quarantine: Failed	2023-02-17 00:59:18 UTC

您還檢測到電腦中的惡意軟體,但這意味著端點被視為在 Inbox.

注意:要將端點傳送到分類程式,它需要多次檢測對象或啟用某些對象的奇怪行為 Indicators of Compromise 在端點中。

在 Dashboard中,按一下 Inbox.

Secure Endpoint Premier	
Dashboard Analysis V Outbreak Control V Management V	Accounts \lor
Dashboard Inbox Overview Events iOS Clarity	
Refresh All	

現在,你擁有了一台需要關注的機器。

1 Requires Attention O In Progress O 1 Resolved								
O Begin Work O M	fark Resolved 44 Move to Group X Promote to In	cident Manager		Sort Date 🗸 🖯 🕀				
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	\$	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	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	re 🛞 No high severity vulnerabilities found.					
Related Compromise E	events		Vulnerab	Inerabilities				
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								
			-					
	Q Scan V Diagnose A Move to Gr	oup 💿 Begin	Work 🛛	Mark Resolved Y Promote to Incident Manager				

現在,切換到Duo並檢視狀態。

首先嘗試進行驗證,以檢視電腦在思科安全終端上放置在 Require Attention.



這就是Duo中的更改以及身份驗證事件下的事件顯示方式。

					 Windows 10, vers As reported by Devic Hostname DES Edge Chromlum Flash Java 	ion 22H2 (19045.2604) e Health SKTOP-R2CH8G5 110.0.1587.46 Not installed Not installed	
1:06:37 AM FEB 17, 2023	X Denied Blocked by Cisco Secure Endpoint	duotrusted	Splunk	Policy not applied	Device Health Application Installed Firewall Encryption Password Security Agents	plication Off Off Set Running: Cisco Secure Endpoint	Unknown
					Location Unknown 173.38.220.51	n 1	新史方
					Endpoint failed Ci Endpoint is not trusted b users endpoint in Cisco	isco Secure Endpoint verification secause Cisco Secure Endpoint check failed, Check Secure Endpoint	

已檢測到您的電腦不是組織的安全裝置。

審閱後允許訪問電腦

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.





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和網路安全專家進行驗證後,您可以在Duo中允許訪問您的應用。

現在的問題是,如何再次允許訪問受Duo保護的應用。

您需要使用思科安全終端和 Inbox,將此裝置標籤為 resolved,允許訪問受Duo保護的應用程式。

0 Require Attention	1 In Progress 1 Resolved	Showing specific compromises Show All					
□ I E Focus O Mark Resolved du Move to Group X Promote to Incident Manager Sort Date ~ □							
DESKTOP-R2CH8G5.taclab.com in group DUO							
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	72.16.200.22 🗸				
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 second se							
Take Forensic Snapsh	Image: State Forensic Snapshot View Snapshot Critical Query Image: State Sta						
	Q Scan & Diagnose	As Move to Group	Mark Resolved X Promote to Incident Manager				

之後,您的電腦將不會處於該狀態 attention required.此更改為 resolved 狀態.



簡而言之,現在您已經準備好再次測試對我們受Duo保護的應用程式的訪問。

Primary	Choose an authentication method	
Cisco Solution	Duo Push RECOMMENDED	Send Me a Push
Cuondiniates Manages product case to support teams resolution	Passcode	Enter a Passcode
What is this?		
Need help?		
Secured by Duo		

現在,你擁有了向Duo傳送推送的許可權,並且你已登入該應用。

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 Applinstalled Firewall Encryption Password Security Agents Location Unknown Trusted Endpoint determined by Device Health	ion 22H2 (19045.2604) e Health KTOP-R2CH8G5 110.0.1587.46 Not installed Not installed plication Off Off Set Running: Cisco Secure Endpoint	 Duo Push Krakow, 12, Poland
分類工作流							
12:41:20 AM FEB 17, 2023	✓ Granted User approved		\checkmark	1. The machine i	is in the first s	tage without infection	
1:06:37 AM FEB 17, 2023	X Denied Blocked by Cisco Sec	ure Endpoint		2. The machine some suspicious	is in the secon indicators of	d stage, some malicio compromise are detec	us artifacts or ted
1:20:41 AM FEB 17, 2023	 Granted User approved 		\checkmark	3. The machine Team , and now	was detected was removed f	safely by the Cybersec from the triage in Cisco	urity Specialist Secure EndPoint

關於此翻譯

思科已使用電腦和人工技術翻譯本文件,讓全世界的使用者能夠以自己的語言理解支援內容。請注 意,即使是最佳機器翻譯,也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準 確度概不負責,並建議一律查看原始英文文件(提供連結)。