# Trellix

#### / 24-26 OCTOBER 2023

### EMEA Partner Tech Summit 2023

Rome, Italy

# Trellix

# Endpoint Security

EMEA Partner Tech Summit 2023

**Benjamin Marandel Diarmuid O'Boyle** November 10, 2023



### **Before We Begin**

the presentation.

Please pay attention to the following items...



nearest exit.

Trellix

# Welcome

/

///

/////

--///

EMEA Partner Tech Summit 2023



### Introduction

Endpoint Security - Speakers



#### "Ben" (Benjamin) Marandel

Solutions Architect



#### **Diarmuid O'Boyle**

Solutions Engineer





### **Agenda** Endpoint Security

- Welcome
- Product Line Pitching
- Use cases and Demonstration Guidance
- SE Resources How to Access
- Trellix Differentiators
- What Next
- Point of Contacts



## **Product Line Pitching**

Endpoint Security

11

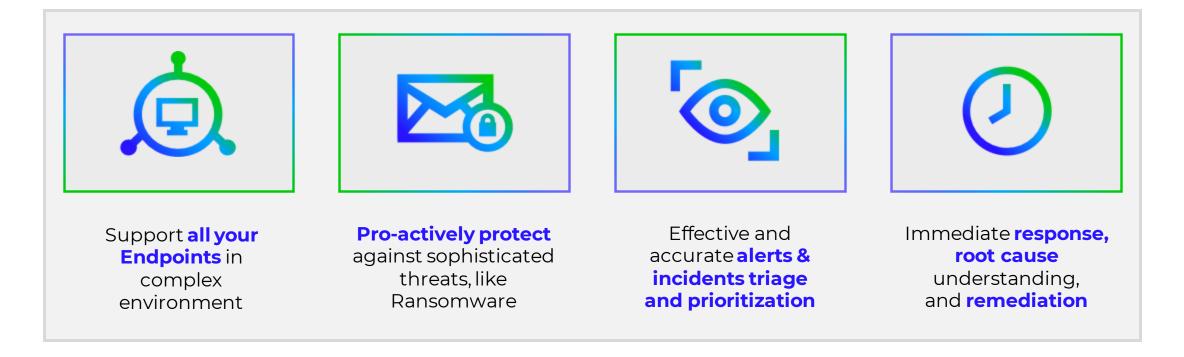
-111



### **Endpoint Security is a foundation**

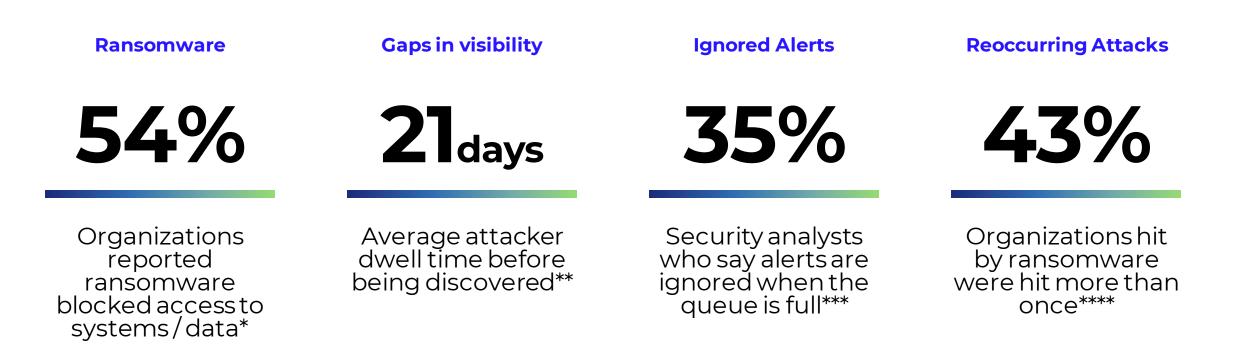


Reduce SOC workloads and improve effectiveness





### **Endpoints are Constantly Under Attack**



\* Future Enterprise Resiliency & Spending Survey - Wave 11, IDC, December 2021
 \*\*\* Infosecurity magazine
 \*\*\* IDC Survey 2021
 \*\*\*\* 2022 Third-party breach report, Black Kite



### **Endpoint Security Requirements are changing**

#### Expanding Attack Surface

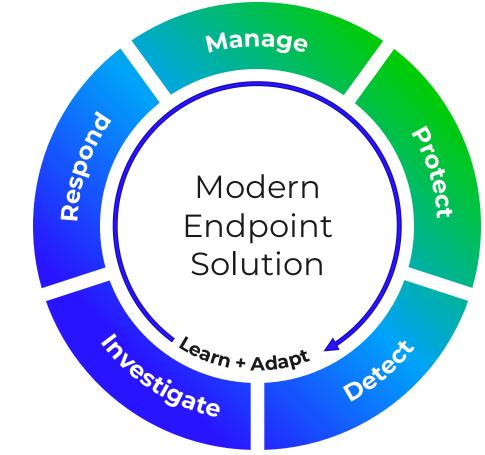
Increasingly sophisticated threats, more endpoints constantly under attack

### Act before, during and after the attack

Endpoint solutions need to cover protection, detection and response and be effective before, during and after the attack

### SOC is highly impacted

Increasing workloads due to alerts and incidents deluge leads to inability to respond fast enough





### You Need a Comprehensive Solution



What if you could have a solution that...



**Optimizes** Protection on all Endpoints **Proactively** 

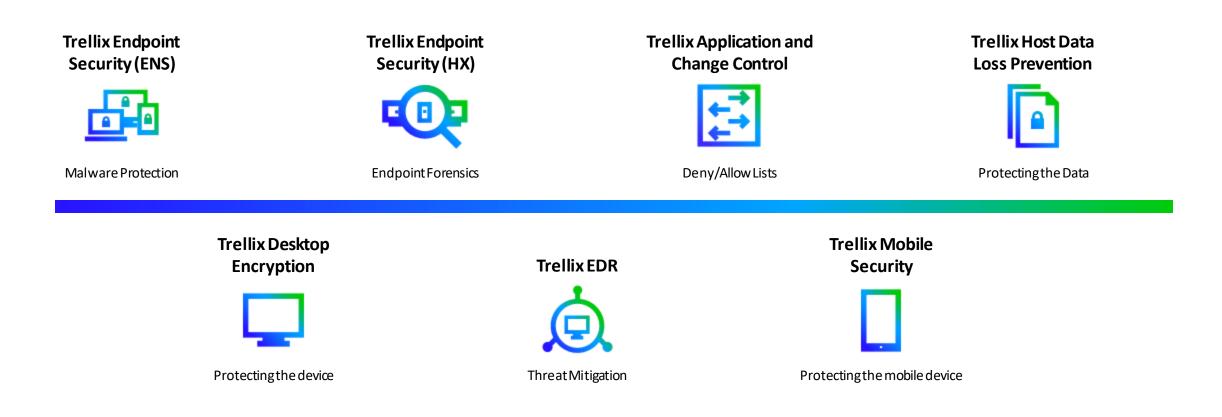
**Simplifies & Improves** Endpoint Alerts Triage, Investigation, and Response



Minimizes Impact from Endpoint Incidents & Threat Campaigns

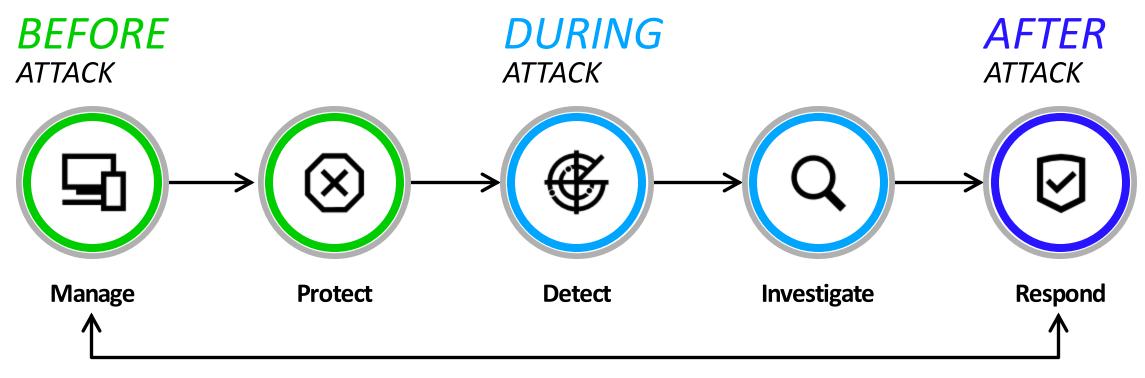


### **Trellix Endpoint Security Products**





### Foundational Endpoint Security



Visibility & Control over the full life cycle of all your Endpoints







Machine Learning and Advanced Remediatio

#### **Real Protect**

Block zero-day malware before it executes with static analysis machine learning and dynamic behavioral cloud based machine learning

#### Real Protect Static (Pre-Execution)

Detect malware based on pre-execution static binary analysis using machine learning and comparison to known malware attributes Real Protect Dynamic (Post-Execution)

Detect dynamic behavior of Greyware on the endpoint, compare to known malware behaviors for a match via behavioral cloud-based machine learning

Pre-and Post Execution is critical to maximize your detection capabilities.



#### **BEFORE** THE ATTACK



#### Optimize Endpoint Security Posture – Exploit Protection

Filter	Exclusion	
Type: Sever	Exclusion Type	File - Process - Registry 🗸
Files Buffer Overflow (Windows only)		
Services (Windows only)	Process	
✓ Registry (Windows only)     Network IPS (Windows only)     ✓ Lo		File name or path (can include * or ? wildcards):
✓ Processes		MD5 hash: Exclude
Quick find:		User /Group ID
Apply Clear Show selected rows		Signer:
		Allow any signature
D Name		Signed by: Process /Signer
6134 T1562 - Evasion Attempt: Suspicious AMSI DLL Loading		Signatures !!
C 6133 T1562 - Evasion Attempt: Suspicious AMSI DLL Creation	ſ	User SID:
Tuning Exploit Protection Policy:		
	2	Group SID:
Includes Many Rules covering MITRE		
Enable with "Report" first		Hostname
Granular Exclusions possible	Target	
/ DMP Read	Target	File name or path (can include * or ? wildcards):

Countermeasures for entry vector threats <u>https://kcm.trellix.com/corporate/index?page=content&id=KB91836</u>

#### **BEFORE** THE ATTACK



Optimize Endpoint Security Posture – Expert Rules

- C 🗄 https://github.com/trellix-enterprise/ExpertRules/tree/main/TRELLIX	AN to 🥵 🗘 t= 庙
Product × Solutions × Open Source × Pricing	Search / Sign in Sign up
trellix-enterprise / ExpertRules Public	<ul> <li>T1175 - COM - WMI using PowerShell WMIC MSHTA VB Renamed McAfee to Trellix</li> <li>T1175 - COM - Word.Application using MCUTA - IS wint - Renamed McAfee to Trellin</li> </ul>
<> Code O Issues 1 12 Pull requests O Actions Projects O Security Projects Projects Projects Frain - ExpertRules / TRELLIX /	<ul> <li>T1175 - COM - Word.Ar</li> <li>T1204_Payload_executi</li> <li>T1222_Windows_File_a</li> <li>Extensible Detection and Protection</li> <li>Expert Rules</li> </ul>
pradeep-bhandary Merge pull request #15 from mcafee-enterprise/15Mar20	<ul> <li>T1486_Attempt_to_Enc</li> <li>T1503 - Credentials fro</li> <li>T1547.001_Registry_Ru</li> <li>MITRE Mapping</li> <li>Sources:</li> </ul>
<ul> <li>ACCESS_PROTECTION</li> <li>DEFENSE_EVASION</li> <li>GENERIC_RULES</li> <li>MALWARE BEHAVIOR</li> <li>Update and renamed McAfe</li> <li>Create Raspberr</li> </ul>	<ul> <li>T1547.004_Winlogon_F</li> <li>T1547.005_Security_Su</li> <li>T1548.002_UAC_Bypass</li> <li>T1552_Credential_in_Reg</li> <li>GitHub</li> </ul>
PAYLOAD_EXECUTION     moved file from     PRIVILEGE_ESCALATION     Create CVE-2023	<ul> <li>T1561_MBR_protection_through_DISK_REGION_matchin Renamed McAfee to Trellix</li> <li>T1561_MBR_protection_through_LBA_matching_criteria Renamed McAfee to Trellix</li> <li>T1569_Service_execution_using_PSExec.md Renamed McAfee to Trellix</li> </ul>
	Image: Tisso_connection_connection_connection_connection       Image: Tisso_connection_connection_connection         Image: Tisso_connection_connection_connection_connection_connection_connection       Renamed McAfee to Trellix         Image: Tisso_connection_co

Expert Rules GitHub Repository - <u>https://github.com/mcafee-enterprise/ExpertRules</u>







Optimize Endpoint Security Posture

#### Protection against entry vector Threats (KB91836)

Below are the countermeasures. Click to advance to the section that you want to view:

- ENS Adaptive Threat Protection (ATP)
- ENS Dynamic Application Containment (DAC)
- ENS Threat Prevention Antimalware Scan Interface (AMSI)
- ENS Exploit Prevention
- ENS Exploit Prevention Expert Rules
- ENS Access Protection default rules
- ENS Access Protection custom rules
- ENS Firewall Rules
- VSE Access Protection default rules
- VSE Access Protection custom rules
- Host IPS signatures
- MSME antispam and on-access scan policies
- More user recommendations

#### **Trellix Insights**

ampaigns > CVE-2021-40444 - Microsoft MSHTML Remote Code Execution Vulnerability	
verview Your Environment Indicators of Compromise (IOCs) 🖲 Hunting Rules Connections 🖲	
ara Rules Sigma Rules Trellix Defense Rules	
Search Filters Rule - EDR Real-Time Search McAfee defense to detect malicious activity. (ENS, VSE, EDR, Endpoint, etc)	
Categories    Rule McAfee defense to detect malicious activity. (ENS, VSE, EDR, Endpoint, etc)	
Rule McAfee defense to detect malicious activity. (ENS, VSE, EDR, Endpoint, etc)	
<pre>Rule {     Process {         Include OBJECT_NAME { -v "winword.exe" }         Include DLL_LOADED -name "ieframe" { -v 0x1 }     }     Target {         Match SECTION {             Include OBJECT_NAME { -v "mshtml.dll" }         }     } }</pre>	

Countermeasures for entry vector threats <u>https://kcm.trellix.com/corporate/index?page=content&id=KB91836</u>



#### **BEFORE** THE ATTACK



#### Optimize Endpoint Security Posture

Trellix Protection Workspace Trellix Marketplace Product D	Deployment Dashboards System Tree Policy Catalo	g Tag Catalog 🗸 🖡 🕐 👤 🗄
	Security Posture Score	Zero-day Close all X
SECURITY POSTURE SCORE	Endpoint	Expand al
• Zero-day 0%	Endpoint Score	Components v 2 Recommendations v
Configuration 32.35%     Detection Prevale 100%	23.42 • Read how endpoint scores are calculated.	
		Scan Configuration 2 Recommendations
	Content   1. Decomposed stigns  10.92	Enhanced Script scanning not compliant 2
	1 Recommendations	Credential Theft Protection not compliant 📮 2
	Zero-day <b>o</b> 5 Recommendations <b>O</b>	Action Enforcement
	Configuration 🛛	Enhanced Remediation not enabled
	10 Recommendations 32.35	
	Detection Prevalence  100	How you can do
	0 Recommendations	
1. Visibility:	2. Recommendations:	3. Action: jump to Policy Catalog
Zero-day protection not enabled	five actions to improve Zero-day protection	Jump to Foncy Catalog

Trellix





#### Determine Potential Impact

Campaigns Threats Profiles	CVEs MITRE Explorer View more * mshtml X Q	₽ \$
Campaigns > CVE-2021-40444 - Microso	oft MSHTML Remote Code Execution Vulnerability	
Overview Your Environment Indic	ators of Compromise (IOCs)  Hunting Rules Connections  Connections	
Yara Rules Sigma Rules Trellix De	ense Rules	
Search Filters	<ul> <li>Rule - EDR Real-Time Search McAfee defense to detect malicious activity. (ENS, VSE, EDR, Endpoint, etc)</li> </ul>	ß
Categories ^	HostInfo hostname and LoadedModules where LoadedModules process_name contains "winword" and LoadedModules module_name contains "mshtml"	

- Proactive Search
- Realtime queries from Insights to EDR
- Identify devices on risk







#### **Dormant Threats**

	ashboard	ds Queries &	Reports Security Resources							
Campaigns > Higesa Recent Attac Overview Your environment I Perform a Real-Time Search of sel	Indicat	ors of Compro					SearchBy - Searc	h for Campaign/SHA256/MD5	۹	\$
Select up to 10 loCs from this Campaign as inp	out for Re	al-Time Search in	MVISON EDR							
Threat Name		ІоС Туре	loC Value	Threat Name	Classification	Devices Impacted	Prevalent In Sectors	Prevalent In Countries		
Not Available  RDN/GENERIC  DOWNLOADER.X		SHA256	1B978324DF504451C2A3430E3	TROJAN-AGEN	TROJAN	None	Not Available	Not Available		
RDN/GENERIC EXPLOIT     RDN/GENERIC.DX		SHA256	500B6037DDB5EFFF0DD91F75	RTFOBFUSTRE	TROJAN	None	Not Available	Not Available		
RDN/GENERIC.GRP		SHA256	F2C60274E625BCB051909797B	RDN/GENERIC	TROJAN	None	Not Available	Not Available		
RTFOBFUSTREAM.A     TROJAN-AGENT.E		SHA256	1086469B504B6E2FF488FE37A	RDN/GENERIC	TROJAN	None	Not Available	Not Available		
		SHA256	5801EAAAB3DE99FF8445637C	RDN/GENERIC	TROJAN	None	Not Available	Not Available		
Classification		SHA256	020EA8433B473BA04D0E06BA	Not Available	Not Available	None	Not Available	italy Israel		
Not Available		SHA256	AFBCD0DD46988F3151A08DA8	Not Available	Not Available	None	Not Available	Not Available		
TROJAN		SHA256	3EB72D696525B2968A528BC6	RDN/GENERIC	TROJAN	None	Not Available	Not Available		
Prevalent In Sectors		SHA256	0684B673D622A6F8F7761FDE9	RDN/GENERIC	TROJAN	None	Not Available	Not Available		
Prevalent In Countries		SHA256	9603EA7C66935F693721D3A09	RDN/GENERIC	TROJAN	None	Not Available	Not Available		
israel							Rows per page: 10 ▼ 1-10 c	of 11 K < 1 2 > >I		
Selected Rows 1b978324df5							Real-Time	e Search in MVISION EDR 🛛		

- Proactive
   Search
- Realtime queries from Insights to EDR
- Identify devices on risk



#### **BEFORE** THE ATTACK



#### Trellix Insights - MITRE Explorer

Campaigns	Threats	Profiles CVE		xplorer Vie	w moro 🔻 🚽		
ampaigns	meats	FIONES CVL			wittore		
Selected Campaigns	5: The Stealthy En	nail Stealer in the TA	B1txor20 Back	door Spreading Via L.	🔘 (FINTEAM: T	rojanized TeamViewe	r A 💿 (More
۸		_					
Reconnaissance	Resource Development	Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access
Active Scanning T1595 4	Compromise Infrastructure T1584 1	Drive-by Compromise T1189 48	Command and Scripting Interp T1059 178	Account Manipulation T1098 15	Abuse Bevation Control Mecha_ T1548 6	Abuse Elevation Control Mecha_ T1548 6	Adversary-in-the-Middle T1557 1
Gather Victim Host Information T1592 4		Exploit Public-Facing Application T1190 102	Container Administration Com T1609 1	BITS Jobs T1197 22	Access Token Manipulation T1134 20	Access Token Manipulation T1134 20	Brute Force T1110 25
Gather Victim Network Informa		External Remote Services T1133 30	Deploy Container T1610 5	Boot or Logon Autostart Execut	Boot or Logon Autostart Execut. T1547 15	BITS Jobs T1197 22	Credentials from Password Sta T1555 23
		Phishing T1566 42	Exploitation for Client Execution	Boot or Logon Initialization Scri T1037 2	Boot or Logon Initialization Scri T1037 2	Build Image on Host T1612 2	Exploitation for Credential Act
		Replication Through RemovabL. T1091 10	<ul> <li>Inter-Process Communication</li> <li>T1559 2</li> </ul>	Browser Extensions	Create or Modify System Process	Debugger Evasion	Forced Authentication
		Supply Chain Compromise T1195 9	Native API T1106 77	Compromise Client Software Bi	Domain Policy Modification T1484 3	Deobfuscate/Decode Files or In_ T1140 352	V Input Capture
		Trusted Relationship T1199 6	Scheduled Task/Job T1053 91	Create Account T1136 20	Escape to Host	Deploy Container T1610 5	Modify Authentication Proces
		Valid Accounts T1078 67	Shared Modules T1129 34	Create or Modify System Process T1543 14	Event Triggered Execution T1546 3	Direct Volume Access T1006 2	Multi-Factor Authentication In T1111 3
			Software Deployment Tools T1072 15	V Event Triggered Execution	Exploitation for Privilege Escala T1068 42	Domain Policy Modification T1484 3	Network Sniffing T1040 14
			✓ System Services T1569 9	External Remote Services T1133 30	Hijack Execution Flow T1574 7	Execution Guardraits T1480 9	OS Credential Dumping T1003 93
			User Execution T1204 184	Hijack Execution Flow T1574 7	Process Injection T1055 174	Exploitation for Defense Evasion	Steal Application Access Toker T1528 9
			Windows Management Instrum T1047 150	Modify Authentication Process T1SS6 1	Scheduled Task/Job T1053 91	File and Directory Permissions T1222 11	Steal Web Session Cookie T1539 44
Number of Mate				Office Application Startup     T1137 5	Valid Accounts T1078 67	Hide Artifacts T1564 g	Steal or Forge Kerberos Ticket
Number of Mate	nes V A			✓ Pre-OS Boot T1542 1		Hijack Execution Flow T1574 7	Vinsecured Credentials
>5				Scheduled Task/Job T1053 gr		Vimpair Defenses	
4				Server Software Component T1505 2		Indicator Removal T1070 40	
2				Traffic Signaling		Indirect Command Execution	
1				11205 4 ✓ Valid Accounts T1078 67		Masquerading T1036 94	

### MITRE Explorer Technique : Lateral Tool Transfer

Adversaries may transfer tools or other files between systems in a compromised environment. Once brought into the victim environment (i.e. Ingress Tool Transfer) files may then be copied from one system to another to stage adversary tools or other files over the course of an operation. Adversaries may copy files between internal victim systems to support lateral movement using inherent file sharing protocols such as file sharing over SMB/Windows Admin Shares to connected network shares or with authenticated connections via Remote Desktop Protocol.(Citation: Unit42 LockerGoga 2019)

Files can also be transferred using native or otherwise present tools on the victim system, such as scp, rsync, curl, sftp, and ftp.

Tactic	Lateral Movement
Technique Id	T1570
Associated Campai	gns
A Chiman ADT A	husing Claud Caminan

Chimera APT Abusing Cloud Services

Exposing LemonDuck and LemonCa...

BabLock Ransomware Targets Asia, ...

+ 89 more

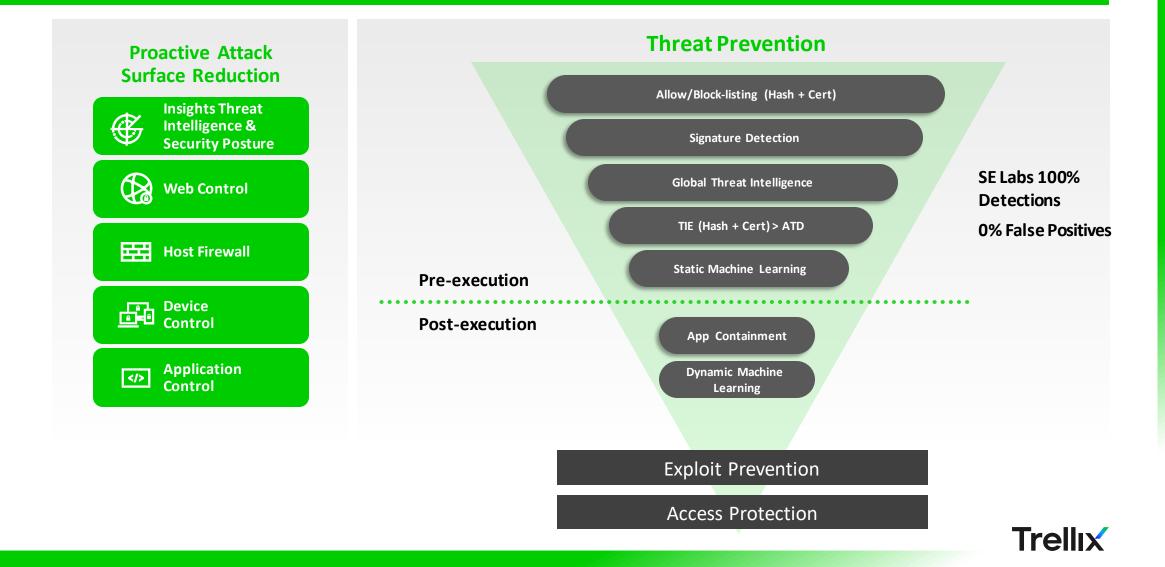


X





Proactive protection against sophisticated threats, like Ransomware



#### **DURING** THE ATTACK

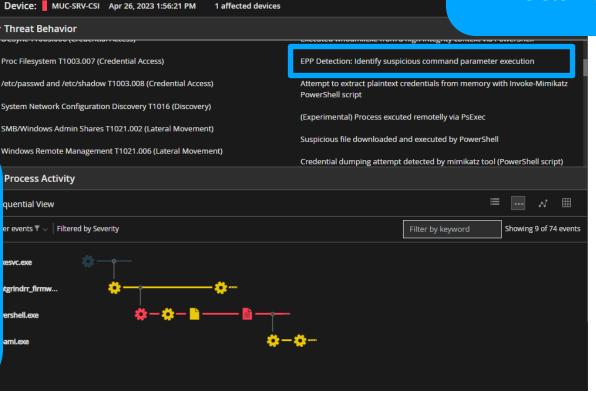


#### EDR – Detect hidden threats

☑ Monitoring	2 Total Threats	2 <sub>High</sub>	0 Medium	0 Low			Immediate Actions <ul> <li>Quarantine</li> </ul>
nreats by Ranking ~ «		indRR_Fir «	Threat Detai				<ul><li>Kill Process</li><li>Delete File</li></ul>
iew All ~	Initial trigger First detection Last detection Affected devices	Trace detection Apr 26, 2023 1:56:21 PM Apr 30, 2023 7:10:13 AM 1	Device: Muc-		6:21 PM 1 affected devices		
k chrome.exe May 3, 2023 7:12:19 AM	Age	8 days		03.007 (Credential Access) c/shadow T1003.008 (Crede	ential Access)	EPP Detection: Identify suspicious comma Attempt to extract plaintext credentials fr	
MeatGrindRR_Firmware_Up Apr 30, 20 7:10:13 AM	Take Action	v	- System Network Co	nfiguration Discovery T101	i (Discovery)	PowerShell script (Experimental) Process excuted remotelly	
				lanagement T1021.006 (Lat		Suspicious file downloaded and executed Credential dumping attempt detected by	

#### **EDR**

- Highly Aggregated and Prioritized Threats
- Combining EDR Detection and ENS Threats
- MITRE Mapping

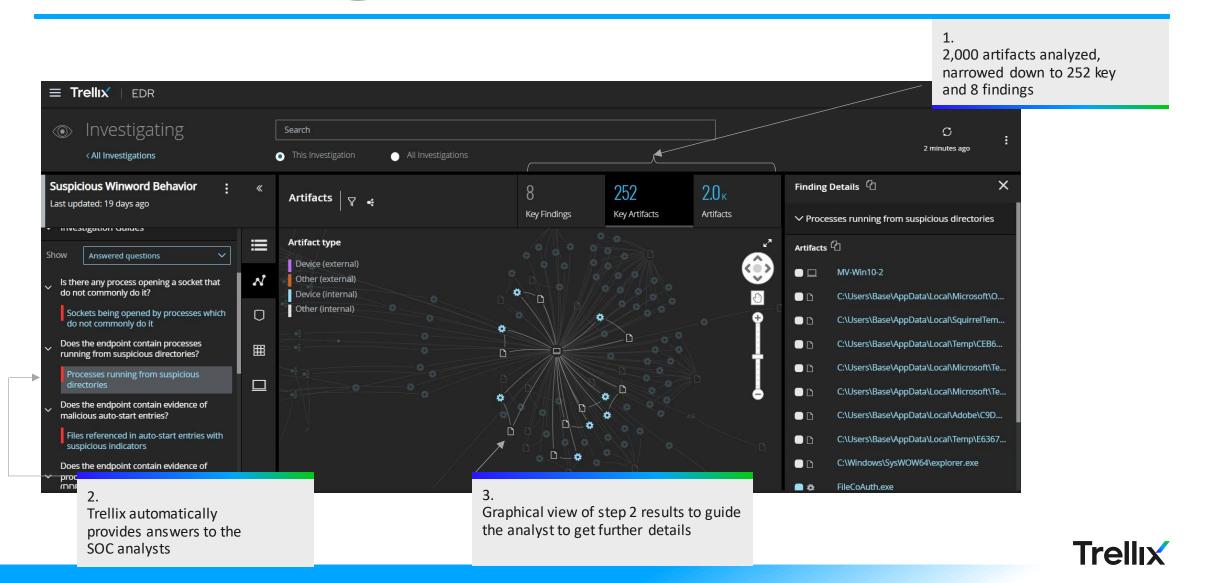


Trellix

#### **DURING** THE ATTACK



#### Optimize Alert Triage with Alguided Investigations



#### DURING THE ATTACK



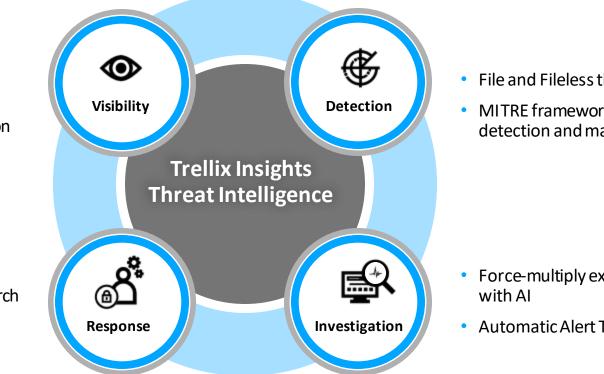
#### Effective endpoint alert triage and prioritization



Simpler investigation workflows

- **Broad Visibility** •
- Flexible Retention
- Always-on data collection

- Data Visualization & Search
- Robust Response



- File and Fileless threats
- MITRE framework driven detection and mapping

Force-multiply expertise

Trellix

• Automatic Alert Triage





#### Alert Timeline and Triage Viewer

- Show timeline of alerts
- Simplifies investigation
- Filters results based on selection
- Red Dot shows indicator trigger
- Full triage download for deeper analysis

	ALERTS	HOSTS 🗸	ACQUISITIC	ONS RU	ULES	ENTERPRI	SE SEARCH	ADMIN *	• мо	DDULES 💙														
search	n-1 <b>≏</b>															CONT	AIN	CANC	EL CONT	AINMENT	REQUEST		Download	d Full Tri
explore	e.exe	4424 Started: 2	021-06-02 14:4	41:36.862Z																	[	ACQUIRE	PROCESS	DETAILS
		net Explorer\iex			EDAT:7987	73																		
Exploits				- 0																				
Processes				0																				
Network																								
legistry Keys																								
Files				_				-																
From 2021-06-	-02 14:41:47.	592Z to 2021-06-0	2 14:42:46.814Z																					
XPLT	Exploit C	ode										311 eve	nts											
		ode										311 eve	nts											
2 Proces	sses		12 14:42:45 8147									311 eve	nts											
2 Proces	<b>sses</b> -02 14:17:41.	079Z to 2021-06-0	14:42:46.814Z								Usernan		nts				Start T	ime l						
Proces: From 2021-06-	sses	079Z to 2021-06-0 Path	12 14:42:46.814Z \SysWOW64\ev								<b>Usernan</b> RESEARC	e.	nts				Start T 2021-04	ime 4 5-02 14:41	1:49.617Z					
Proces: From 2021-06-	sses -02 14:17:41. PID	079Z to 2021-06-0 Path C:\Windows		ventvwr.exe								e I-1\victim	nts				2021-0							
2 Proces: From 2021-06-1 XPLT	sses -02 14:17:41. PID 4524 4780	079Z to 2021-06-0 Path C:\Windows	\SysWOW64\ev	ventvwr.exe							RESEARC	e I-1\victim I-1\victim	nts				2021-0	5-02 14:41						
Process From 2021-06-1 XPLT 7 IP Addi	sses -02 14:17:41. PID 4524 4780 Iresses	079Z to 2021-06-0 Path C:\Windows	\SysWOW64\ev \SysWOW64\ev	ventvwr.exe ventvwr.exe							RESEARC RESEARC	e I-1\victim I-1\victim		2021-06-0	12 14:42:4	1.1242	2021-0	5-02 14:41						
Process From 2021-06-1 XPLT 7 IP Addi	sses -02 14:17:41. PID 4524 4780 Iresses	079Z to 2021-06-0 Path C:\Windows C:\Windows 983Z to 2021-06-0	\SysWOW64\ev \SysWOW64\ev 12 14:42:41.124Z	ventvwr.exe ventvwr.exe	t	P	rotocol	# of t	imes		RESEARC RESEARC	e I-1\victim I-1\victim ains	8.983Z to	2021-06-0	12 14:42:4	1.124Z	2021-0	5-02 14:41			# of	times		
Process From 2021-06-1 XPLT 7 IP Addi	sses -02 14:17:41. PID 4524 4780 Iresses -02 14:21:18.	079Z to 2021-06-0 Path C:\Windows C:\Windows 983Z to 2021-06-0 Address	\SysWOW64\ev \SysWOW64\ev 2 14:42:41.124Z	ventvwr.exe ventvwr.exe t	t		rotocol	# of t	imes		RESEARC RESEARC	e 4-1\victim 4-1\victim ains 66-02 14:21:1 Domai	8.983Z to			1.1242	2021-0	5-02 14:41			# of 2	times		
Process From 2021-06-1 XPLT 7 IP Addi	sses -02 14:17:41. PID 4524 4780 Iresses -02 14:21:18. Remote	0792 to 2021-06-0 Path C:\Windows C:\Windows 9832 to 2021-06-0 Address 27	\SysWOW64\ev \SysWOW64\ev 12 14:42:41.124Z   {	ventvwr.exe ventvwr.exe z Remote Port	t	т			imes		RESEARC RESEARC	e I-1\victim I-1\victim ains 16-0214:21:1 Domai fpdowr	8.983Z to <b>ns</b>	cromedia	.com	1.1242	2021-0	5-02 14:41				times		







#### Data Acquisitions

#### Actions

#### Actions

Run a Malware Scan Restart Agent Cancel containment request Contain Acquire Single File Triage Multiple Files Standard Investigative Details Comprehensive Investigative Details Quick File Listing Command Shell History

PowerShell History (From Event Logs)

Process Memory Driver Memory Full Memory Raw Disk

test101

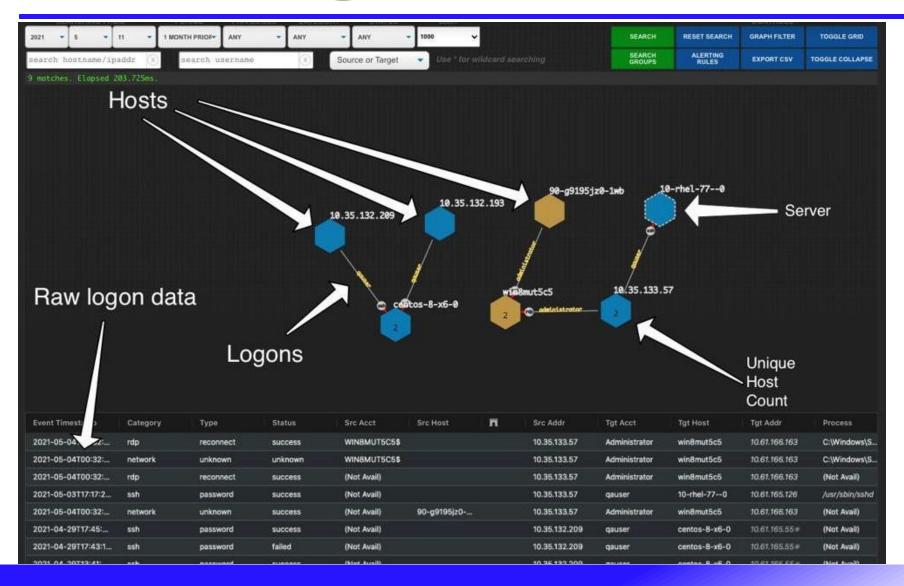
928 acquisitions	Actions	FILTER BY: Acquisition type All V GO	Status All 0 acquisitions	selected	Requested by Not Enricher	All 301 - 350 of 9	
		Hostname	IP Address	Requested 1	Acquisition	Download Size	Status
0		VICTIM-7FHS0H5	10.12.10.136	14 days ago	Triage (automatic)	6.2MB	<b>\$</b> ; Acquired
		victim-win10-AQ	10.12.10.174	14 days ago	Triage (automatic)	6.3MB	<b>8</b> ; Acquired
		victim-win10-AQ	10.12.10.174	14 days ago	Data: Quick File Listing	28.4MB	<b>\$</b> ‡ Acquired
	-	victim-win10-AQ	10.12.10.174	14 days ago	Data: Command Shell History	1.4MB	<b>8</b> ; Acquired
	-	victim-win10-AQ	10.12.10.174	14 days ago	Data: PowerShell Histo ry (From Event Logs)	691.6KB	<b>8</b> ; Acquired
	Ŧ	victim-win10-AQ	10.12.10.174	14 days ago	Data: Raw Disk	26.3GB	<b>\$</b> ; Acquired
	Ŧ	victim-win10-AQ	10.12.10.174	14 days ago	Data: Full Memory	2.4GB	<b>\$</b> ; Acquired
Ο	-	VICTIM-7FHS0H5	10.12.10.129	14 days ago	Triage (automatic)	15.4MB	<b>8</b> ; Acquired



#### **AFTER** THE ATTACK



#### Logon Tracker - Lateral Movement Detection



- Analysis typically starts with a clue (an account or a host)
- Essential to gather historical logon data
- Account, host, and logon metadata speeds up analysis

Trellix





#### Host Remediation – Remote Shell

C ENDPOINT SECURITY DASHBOARD ALERTS HOSTS	ACQUISITIONS RULES ENTERPRISE SEARCH ADMIN V MODULES V
Remediation Session	⊗
PS C:\Windows\system32> whoami nt authority\system PS C:\Windows\system32> _	WIN73a913c4cace Connected
	Host InfoIP Address10.61.153.181Operating SystemWindows 10 EnterpriseAgent Version32.30.0
	Use Custom Script Upload your script and execute on the host.
	DOWNLOAD AUDIT TRACE END SESSION

- Remote Console
- Audited
- Kill processes
- Remove Files
- Scriptable







Rapid response capabilities to contain attacks



Root cause understanding, and remediation

Investigation

Enterprise Search

# 

Forensic Acquisition



Attack Summary and Audit Viewer



Quick Containment

Response



= & |||, Scalability

Off Network Investigation







#### Windows Event Log Forwarding

Event Streamer	Security 🚯	
The Event Streamer module provides the ability to send Windows Event log data directly to Helix or a Syslog server.	System 🚯	
Enable Event Streamer on the host	Terminal Services 🚯	
Destinations	Task Scheduler 🚯	
Stream to FireEye Helix	Powershell 🚯	
Enable this setting to forward Windows event logs to your FireEye Helix instance.	Windows Defender  🚯	
No syslog destination has been added yet           ADD SYSLOG DESTINATION	Application Experience 🚯	
Start by adding a syslog destination for forwarding Windows event logs. Add Syslog Destination Add the syslog destination you want to connect and send your Windows event logs to.	Application 🚯	
Name	AppLocker 🚯	
IP Address     Port       IP Address     Port       Enable TLS     Port	Printer Service  🚯	

ПСШХ



### An Endpoint Security Powerhouse

#### **Optimize all your Endpoints Protection**

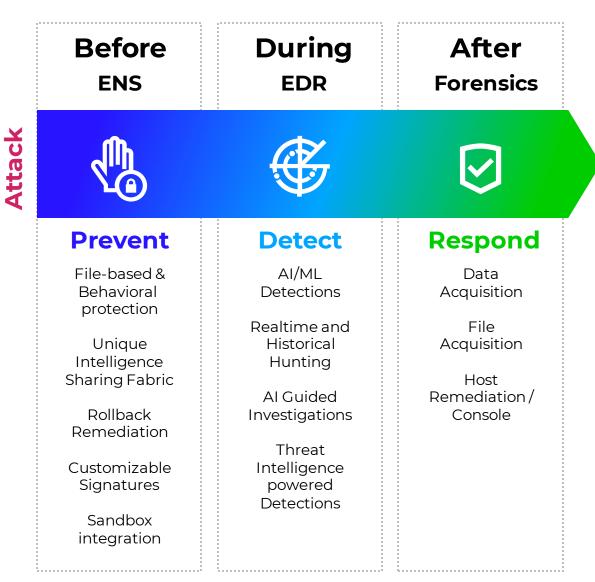
- Manage at Enterprise Scale, on-prem & cloud
- Desktop, Servers & Fixed functions devices
- Proactively Protect against sophisticated threats

#### Simplify & Improve Triage, Investigation & Response

- High Fidelity Endpoint Alerts and Telemetry
- Al Guided Investigations

#### **Minimize Impact**

- Real-Time Blocking and Containment at Scale
- Endpoint Forensic & Root Cause Analysis



Trellıx

# Endpoints are foundational to cybersecurity

# ... And we offer a fully-featured solution

**Before, During** & After the Attack

#### A Foundation

Endpoint security is foundational to every organization's security program Customers need capabilities before, during, and after attacks to protect their endpoint attack surface

> A Proven endpoint security platform that secures organizations' endpoint estate and minimize costs and risks

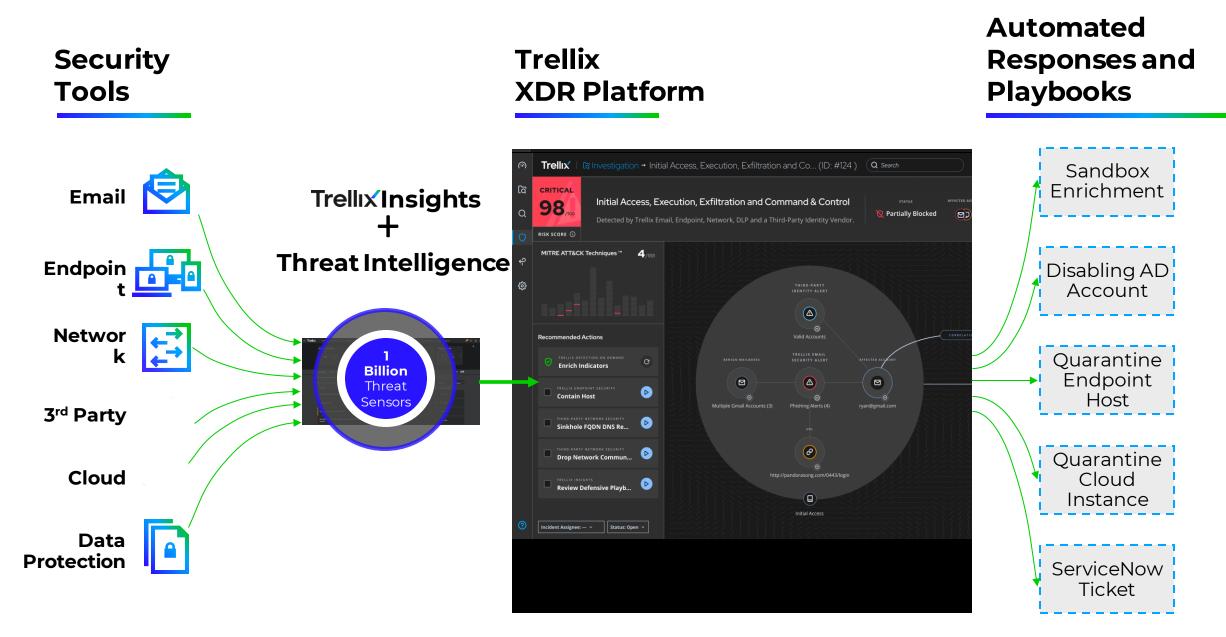
#### Modern & Comprehensive

### **Trellix Endpoint**

#### New SKU for Comprehensive Endpoint Coverage

New SKU (TRXE - March 2023)	<b>Rich Protection</b>	Investigation & Response	Adv. Forensics	Threat Intelligence Prioritization	Threat Response at Scale	Attack Surface Reduction		
Component	ENS	EDR	Forensics	Insights	TIE	App/Device Control		
SaaS and On-prem Mgmt								
Trellix Endpoint	X	X	X	X	X	X		





Trellix

# **Use Cases** Endpoint Security

/

111

/////

--///



# Key Use Cases

Endpoints are a constant target for attackers



## **Complex Endpoint Attack Surface**

Gaps in coverage and misconfigurations can lead to increasing cost and risk of attacker dwell time and costly incidents



## Ransomware attacks cause damage

Ransomware quickly blocks access to systems and data causing impact to users and organizations



## Inefficient Endpoint Alert Triage

Noisy alerting and false positives increases alert fatigue and the risk of critical alerts being ignored, leading to costly incidents.



## Impactful Endpoint Incidents

Endpoint incidents must be contained, and scope and root cause must be understood to resolve and prevent incidents from reoccurring



# Who Cares?

## Foundational Endpoint Security for Strategic Security Initiatives Organization Profiles: Key Persona Concerns:

#### Low to Medium Maturity – Manage and Protect Focus

- Minimal resources dedicated to security
- SLAs and business uptime the priority
- Industries/geos with on-prem mandate
- Starting a SOC initiative

#### High Maturity – Detect, Investigate, and Respond Focus

- Considers endpoints as fundamental to the SOC
- Seeking SOC excellence
- Striving for more proactive security posture



## CISO

Economic Buyer

- Minimize Risk
- Minimize Cost



## SOC Manager / Security Architect

Technical Buyer

- Operational Efficiency
- Metrics: E.g. MTTD, MTTR
- Staff Effectiveness

## SOC Analyst

Influencer

- Daily successful execution
  - Deploy and Configure
  - Detect and Respond



# **Complex Endpoint Attack Surface**

Optimize Protection on Endpoints **Trellix Promise** 

## Why Trellix?



### CISO

Economic Buyer

Minimize cost and risk protecting endpoints in complex environments with consistent security baselines.



#### SOC Manager / Security Architect Technical Buyer

Manage and protect the entire endpoint estate efficiently and effectively.

- Broad endpoint coverage, on-prem and cloud management
- Enterprise management and automation at scale
- Security posture optimization with threat intelligence



# **Use Case: Complex Attack Surface**

## Optimize Protection

Scenario	Result	Solution
An organization isn't aware of what protection controls have been configured in their endpoint estate. They haven't enabled zero-day protection in ENS.	An organization is hit by ransomware and deals with costly impact due to insufficient security being enabled.	Trellix Insights shows security posture status and guides customers to where they can enable advanced protections that are part of ENS.







ASH Crossfire Lab							Trellix	
2 Dashboard	💂 310 - Beta - Trellix XDR & Data Prote	ection 🗧 317 - Ransomware Endpoint Journey	a 319 - Ransomware Endpoint Journey				Create New Scenario	
Scenarios     Cloud Scenarios	Lab user: jesse.netz@trellix.com	Show password	Status: Running Refreshing in 56 Seconds Refresh It may take a few minutes for services to start	now		► Start Scenario	러 Save As Template 前 Delete Scenario	
PCAP Replay     Lab tour     Online Help	ID: K Cloud Provider:		317 SKYTAP					
User Profile  Lab Support  Logout	External Appliance:	Helix Demo 1 (prod) • Access: : Helix Demo 1 HX • Access: : Trellix XDR XConsole • Access: :		Victim:	RANSOMEWARE_WIN10_EPO_FINANCE         • Status:         • IP: 10.40.124.42       Access:         • VM ID: 106284793         RANSOMEWARE_WIN10_MARKETING         • Status:       •         • IP: 10.40.124.43       Access:         • VM ID: 106284795         RANSOMEWARE_WIN10_MARKETING         • Status:       •         • UP: 10.40.124.43       Access:         • VM ID: 106284795			
				Attacker:	<ul> <li>Status:          <ul> <li>IP: 10.40.134.201</li> <li>Access:              <li>VM ID: 106284796</li> </li></ul> </li> <li>RANSOMEWARE_WORKBENCH         <ul> <li>Status:              <li>IP: 10.40.100.89</li> <li>Access:              <li>VM ID: 106284794</li> </li></li></ul> </li> </ul>			

\*

ASH Crossfire Lab 4.0-20211225 (c) 2015-2021 by FATE (FireEye Advanced Technical Enablement) Team

# **Ransomware Attacks Cause Damage**

Solution: Rapid Response Process Blocking and Rollback

## **Trellix Promise**



#### CISO

Economic Buyer

Minimize cost and risk from ransomware with advanced rapid response and rollback

## Why Trellix?

#### **TIE – Rapid Response Process Blocking**

- Rapidly block new attacks across endpoint estate with Threat Intelligence Exchange
- Ransomware Rollback



#### SOC Manager / Security Architect Technical Buyer

Quickly block new ransomware variants and avoid costly impact with automated remediation.



2

# **Use Case: Complex Attack Surface**

## Optimize Protection

Scenario	Result	Solution
A new ransomware variant is executed on an endpoint.	Endpoint data is encrypted and the organization is at risk of increased scope of damage.	Trellix Threat Intelligence Exchange allows admins to immediately block new process throughout an estate and enhanced remediation automatically restores encrypted data.



2















exfil

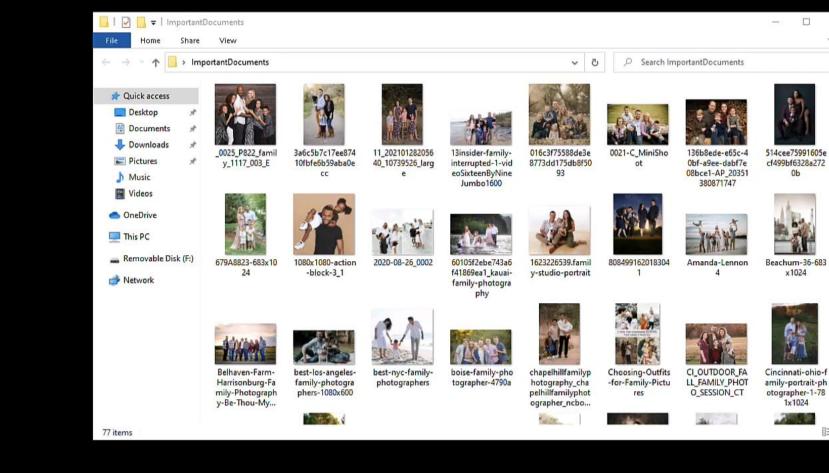












5



× ~ 0









2

-

V

0

O III

ヘ 臣 (1) 9/5/2023 5 Ctri Alt Esc Tab

# Inefficient Endpoint Alert Triage

## Simplify Endpoint Alert Triage Trellix Promise

## Why Trellix?



#### SOC Manager / Security Architect Technical Buyer

Improve endpoint team efficiency and MTTD/MTTR for endpoint investigations



## SOC Analyst

#### Influencer

Minimize alert fatigue and time spent investigating endpoint alerts.



## CISO

Economic Buyer

Minimize risk of incidents resulting from unattended endpoint alerts

- High-fidelity detections, low false positives
- MITRE Tactic and Technique
- Al Guided Investigations



3

# **Use Case: Inefficient Alert Triage**

AI Guided Investigations

Scenario	Result	Solution
SOC analysts who need to triage endpoint alerts are overwhelmed and don't know how to efficiently investigate alerts where they might need to take action.	An organization is hit by ransomware and deals with costly impact due to inefficient alert triage and investigation.	Trellix EDR AI guided investigations answer questions for the SOC Analysts and allow them to quickly contain incidents



3



#### Trellix | EPO → TIE Reputations

🛊 FAVORITES 🍈 Trellix Insights Protection Workspace Trellix Marketplace Product Deployment Dashboards Tag Catalog Policy Catalog TIE Reputations System Tree Threat Event Log

#### **TIE Reputations**

File 5	Search Certificate Search File Ov	verrides Certificate Overrides														
THE FI	ile Reputations : File Search	1. A														Hide Filter
Pres	set: Custom:	Quick find:														
All	~ None	~] [	Apply <u>Clear</u>	Show selected rows												
	All File Names	Company Name	Product Name		File Version	Composite Reputation	Enterprise Reputation	Certificate Enterprise Reputati	Latest Local Reputation	Certificate GTI Reputation	GTI Reputation	TIS Reputation	Cloud IVX Reputation	SWG Reputation	First Agent	
a descent of the second	31025_cutepuppyjpg.exe					a Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	284795-JNETZ-MA	1
	22997_cutepuppyjpg.exe					L Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	284795-JNETZ-MA	
1000	24252_cutepuppyjpg.exe					La Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	284795-JNETZ-MA	
	18972_cutepuppyjpg.exe					Most Likely Malicious	( Not Set	Not Available	Most Likely Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	284795-JNETZ-MA	
Contract of Contract	8762_cutepuppyjpg.exe					Unknown (Latest Loca	I Not Set	Not Available	Unknown	Not Available	Not Set	Not Available	Known Malicious	Not Available	284795-JNETZ-MA	
	21303_cutepuppyjpg.exe					🏯 Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	284793-JNETZ-FI	
	26126_cutepuppyjpg.exe					a Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	284796-JNETZ-AC	
	2422_cutepuppyjpg.exe					🏯 Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	17216_cutepuppyjpg.exe					👗 Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	10826_cutepuppyjpg.exe					🌲 Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	8863_cutepuppyjpg.exe					& Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	18201_cutepuppyjpg.exe					🌲 Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
1	elevation_service.exe	Google LLC	Google Chrome		116.0.5845.141	Most Likely Trusted (0	Not Available	Not Set	Most Likely Trusted	Most Likely Trusted	Known Trusted	Not Available	Not Available	Not Available	177878-JNETZ-MA	
	chrome,dll	Google LLC	Google Chrome		116.0.5845.141	Most Likely Trusted (I	a Not Available	Not Set	Most Likely Trusted	Most Likely Trusted	Not Available	Not Available	Not Available	Not Available	177878-JNETZ-MA	
	chrome_elf.dll	Google LLC	Google Chrome		116.0.5845.141	Most Likely Trusted (I	a Not Available	Not Set	Most Likely Trusted	Most Likely Trusted	Not Available	Not Available	Not Available	Not Available	177878-JNETZ-MA	
	7721_cutepuppyjpg.exe					🚨 Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	12393_cutepuppyjpg.exe					👗 Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	14294_cutepuppyjpg.exe					A Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	29634_cutepuppyjpg.exe					Le Known Malicious (Ent	<ul> <li>Known Malicious</li> </ul>	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	3739_cutepuppyjpg.exe					🚨 Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	15875_cutepuppyjpg.exe					Lent Known Malicious (Ent	<ul> <li>Known Malicious</li> </ul>	Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177878-JNETZ-MA	
	7491_cutepuppyjpg.exe					🏯 Known Malicious (Ent	<ul> <li>Known Malicious</li> </ul>	Not Available	Known Malicious	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
	3239_cutepuppyjpg.exe					Le Known Malicious (Ent	<ul> <li>Known Malicious</li> </ul>	Not Available	Known Malicious	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
	862_cutepuppyjpg.exe					Le Known Malicious (Ent	Known Malicious	Not Available	Known Malicious	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
	3635_cutepuppyjpg.exe					Lown Malicious (Ent	<ul> <li>Known Malicious</li> </ul>	Not Available	Known Malicious	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
	28977_cutepuppyjpg.exe					A Known Malicious (Ent	<ul> <li>Known Malicious</li> </ul>	Not Available	Known Malicious	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
	18573_cutepuppyjpg.exe					Le Known Malicious (Ent		Not Available	Known Malicious	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
100000	24017_cutepuppyjpg.exe					L Known Malicious (Ent		Not Available	Known Malicious	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
	26595_cutepuppyjpg.exe					Lent Known Malicious (Ent		Not Available	Known Malicious	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
100000	16956_cutepuppyjpg.exe					Unknown (Latest Loca		Not Available	Unknown	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
11111	AppMonitorDILdll		US. L Trellix Endpoint Security	(HO) EndPoint	35.31.0	Known Trusted (Enter		Known Trusted	Most Likely Trusted	Most Likely Trusted	Not Available	Not Available	Not Available	Not Available	177879-JNETZ-AC	
10000	chrome_elf.dll	Google LLC	Google Chrome		114.0.5735.110	Most Likely Trusted (I		Not Set	Most Likely Trusted	Most Likely Trusted	Not Available	Not Available	Not Available	Not Available	177879-JNETZ-AC	
	10986_cutepuppyjpg.exe					Unknown (Latest Loca		Not Available	Unknown	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
0.000	9669_cutepuppyjpg.exe					Unknown (Latest Loca		Not Available	Unknown	Not Available	Not Set	Not Available	Not Available	Not Available	177879-JNETZ-AC	
	elevation_service.exe	Google LLC	Google Chrome		114.0.5735.110	Most Likely Trusted (L		Not Set	Most Likely Trusted	Most Likely Trusted	Not Available	Not Available	Not Available	Not Available	177879-JNETZ-AC	
12284	14736_cutepuppyjpg.exe					& Known Malicious (Ent		Not Available	Known Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	177879-JNETZ-AC	
	7055_cutepuppyjpg.exe					Most Likely Malicious		Not Available	Most Likely Malicious	Not Available	Not Set	Not Available	Known Malicious	Not Available	175112-JNET2-FI	HEL
0.00110	32430_cutepuppyjpg.exe					Unknown (Latest Loca		Not Available	Unknown	Not Available	Not Set	Not Available	Not Available	Not Available	175114-JNETZ-MA	O
	qbotuninstaller.exe					Known Malicious (Late		Not Available	Known Malicious	Not Available	Might be Malicious	Not Available	Not Available	Not Available	317777-PEALAJIM	
	SkypeContext.dll					🥌 Known Trusted (GTI)	Not Available	Not Available	Unknown	Not Available	Known Trusted	Not Available	Not Available	Not Available	317777-PBALAJIM	

k

Set File Reputation to Known Malicious

×

# Impactful Endpoint Incidents

Minimize Impact from Endpoint Incidents Trellix Promise Wi

## Why Trellix?



#### SOC Manager / Security Architect Technical Buyer

Minimize impact from incidents and understand root cause



### **SOC Analyst**

#### Influencer

Contain incidents quickly and verify incident is resolved



#### **CISO** Economic Buyer

Ensure endpoint incidents don't lead to costly outages or headlines

- Rapidly block new attacks across
   endpoint estate
- Contain and investigate endpoints at scale
- Understand scope with adv. Forensics
- MDR options for added expertise



4

# **Use Case: Impactful Incidents Reoccur**

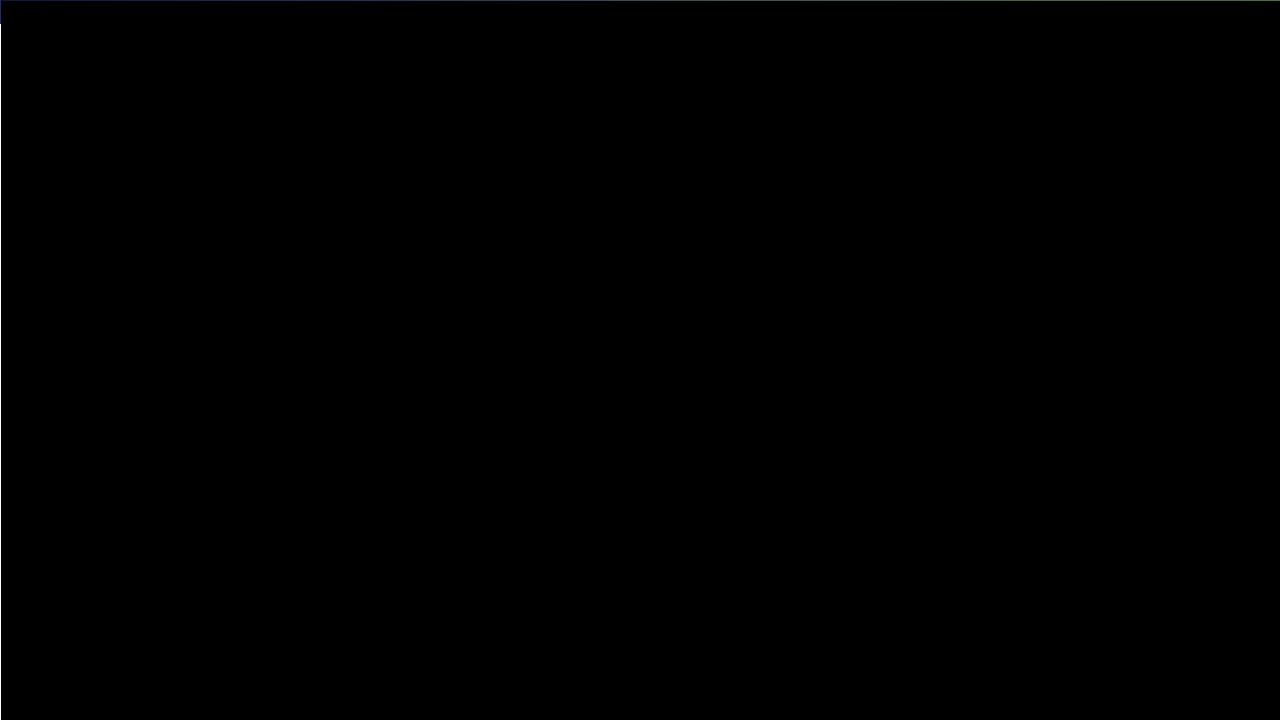
Root cause analysis to prevent reoccurring incidents

Scenario	Result	Solution
An organization is hit by ransomware but doesn't investigate with forensics for root cause analysis and just reimages systems to recover.	The organization gets hit by ransomware again because they never understood the attack vector and didn't improve their security posture.	Trellix Forensics provides advanced tools for responders to understand the scope of an attack and root cause analysis to understand how to improve controls and prevent attacks from reoccurring.



4





# **Demonstration Guidance**

Endpoint Security

///

//////

--///



## Endpoint Demo How to

In this demoyou will be able set up a demo in CrossFire. Please start this process 1 hour prior to your demo.

Note: you can configure it before then as well.



# Accessing Crossfire Labs.

You can use any of these: <u>Alliances Crossfire Lab (fireeve.com)</u> SFO Crossfire Lab (fireeye.com) <u>ASH Crossfire Lab (fireeye.com)</u>



## Scenarios

SH Crossfire Lat	:: Dashboard						
Dashboard	الله Lab Systems			Lab user: jes	se.netz@tre	llix.com Show pa	assword
enarios			Crossfir	e Lab Guide			
loud Scenarios	Crossfire Lab Gu	ide			0	<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul> <li></li>	
		Applia	nces labeled as	"02" provide A	dmin acces		
CAP Replay	SFO VM Info						
ab tour			CLOU	DVISORY			
	Cloudvisory						$\odot$
nline Help			Enterpr	ise Security			
ser Profile	MVISION EPO				0		
Ourseat	cm01	CM 2500	9.1.5				$\odot$
b Support	cm02	CM 2500	9.1.5				$\odot$
ogout	nx01	NX 4500	9.1.5 G	inline	0		$\odot$
	nx02	NX 4500	9.1.5 G			<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul>	$\odot$
	ex01	EX 5500	9.1.5 G	mta		© >_	$\odot$
	ex02	EX 5500	9.1.5 G	bcc			$\odot$
	ETP				0		

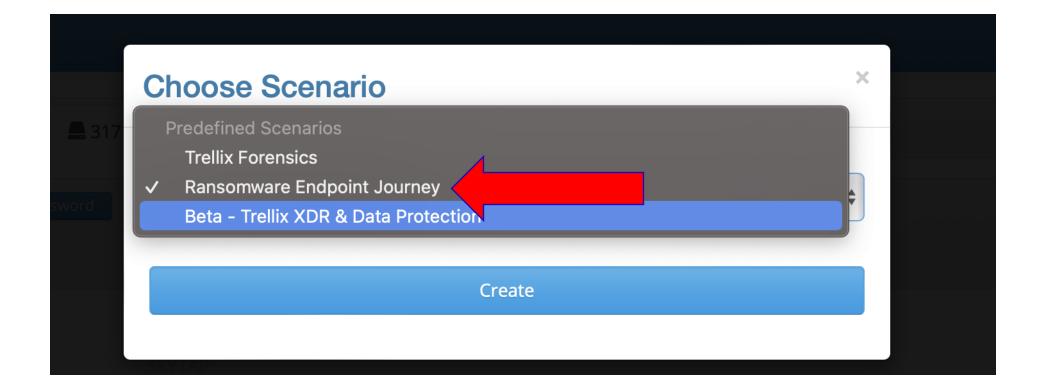


## Create new scenario

ASH Crossfire Lab						Trellix	<b>A</b> '
🚯 Dashboard	🚔 310 - Beta - Trellix XD	R & Data Protection	- Ransomware Endpoint Journey			Create New Scenario	
Scenarios     Cloud Scenarios     DOAD Depley	Lab user: jesse.netz(	@trellix.com Show password	Status: Running Refreshing in It may take a few minutes for server		<ul> <li>Start Scenario</li> <li>Stop Scenario</li> </ul>	聞 Save As Templat 聞 Delete Scenario	
<ul> <li>PCAP Replay</li> <li>Lab tour</li> <li>Online Help</li> </ul>	ID: Cloud Provider:		317 SKYTAP				
<ul> <li>User Profile</li> <li>Lab Support</li> <li>Logout</li> </ul>	External Appliance:	Helix Demo 1 (prod) <ul> <li>Access: </li> </ul> Helix Demo 1 HX <ul> <li>Access: </li> </ul>		Victim:	RANSOMEWARE_WIN10_EPO_FINANCE         • Status:       Image: Comparison of the status         • IP: 10.40.124.42       Access:         • VM ID: 106284793		



## Choose new scenario





## Start the new scenario. Be sure to note your lab user name and password.

ASH Crossfire Lab						Trellix	<b>*</b> -)
2 Dashboard	📕 310 - Beta - Trellix XD	DR & Data Protection	317 - Ransomware Endpoint Journey	a18 - Ransomware Endpoint Journey		Create New Scenario	
□ Scenarios	-	@trellix.com Show passwo			Start Scenario	🗟 Save As Templat	
<ul> <li>Cloud Scenarios</li> <li>PCAP Replay</li> </ul>			It may take a few minutes for se	ervices to start	Stop Scenario	ា Delete Scenario	
Lab tour	ID:		318				
Online Help	Cloud Provider:		SKYTAP				
User Profile	External Appliance:	Helix Demo 1 (prod) <ul> <li>Access: </li> </ul>		Victim:	RANSOMEWARE_WIN10_EPO_FINANCE     Status:		
<ul> <li>? Lab Support</li> <li>Image: Description of the second secon</li></ul>		Helix Demo 1 HX		_	IP: 10.40.112.106 Access:      Access:      VM ID: 106285644		
		• Access: 🖵			RANSOMEWARE_WIN10_MARKETING		
		Trellix XDR XConsole           • Access:			<ul> <li>Status: </li> <li>IP: 10.40.112.107 Access: </li> <li>VM ID: 106285646</li> </ul>		
					RANSOMEWARE_WIN10_EPO_ACCOUNTING         • Status:         • IP: 10.40.127.25         • VM ID: 106285647		

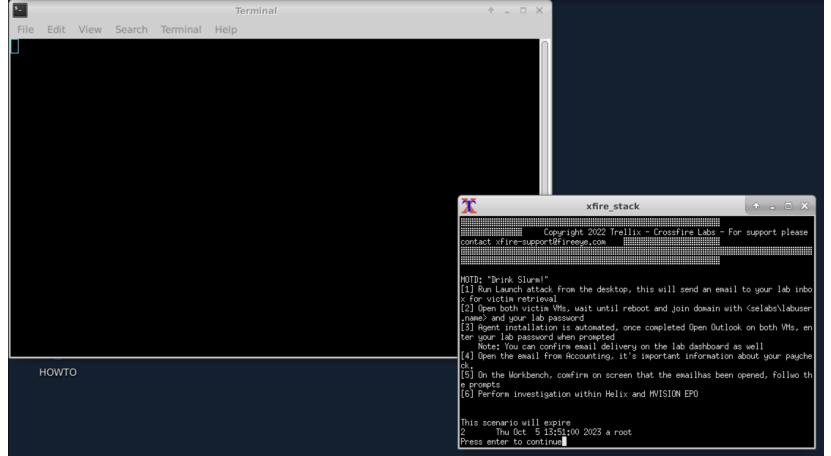
# Launch the Ransomware workbench

## system

	It may take a few minutes for serv	ices to start	▶ Start Scenario     ► Save As Template       ■ Stop Scenario     m Delete Scenario
	318 SKYTAP		
Helix Demo 1 (prod) <ul> <li>Access: </li> </ul> Helix Demo 1 HX <ul> <li>Access: </li> </ul> Trellix XDR XConsole <ul> <li>Access: </li> </ul>		Victim:	RANSOMEWARE_WIN10_EPO_FINANCE         • Status:       •         • IP: 10.40.112.106       Access:         • VM ID: 106285644             RANSOMEWARE_WIN10_MARKETING         • Status:       •         • IP: 10.40.112.107       Access:         • VM ID: 106285646       •
		Attacker:	RANSOMEWARE_WIN10_EPO_ACCOUNTING         • Status:         • IP: 10.40.127.25         • VM ID: 106285647         • VM ID: 106285647         RANSOMEWARE_WORKBENCH         • Status:         • IP: 10.40.147.57         • VM ID: 106285645
ŀ	Access:	SKYTAP Helix Demo 1 (prod) • Access: Helix Demo 1 HX • Access: Trellix XDR XConsole	skyrap     teix Demo 1 (prod)     teix Demo 1 HX     e Access:       Teilix XDR XConsole     e Access:

# **Complete your scenario**

- Press enter to continue
- Close the workbench



Tremx

# Available systems.

There are 3 available systems and all have HX, ENS, ATP, and the same policies installed

Victim:

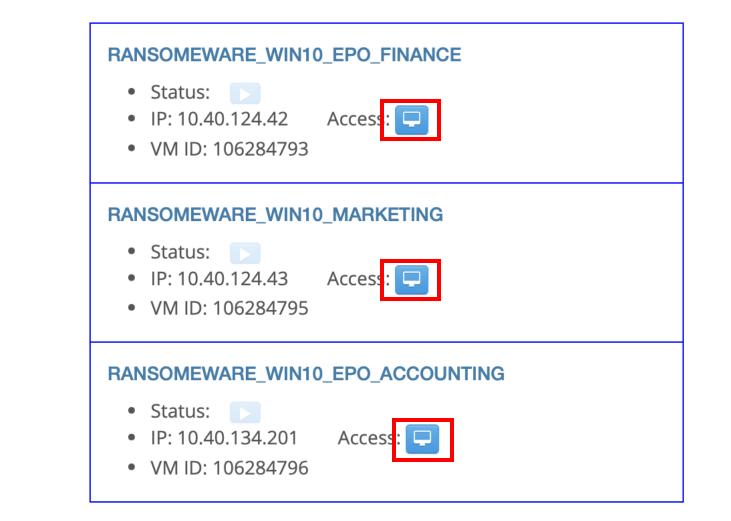
- Marketing
- Finance
- Accounting





# Launch all systems to begin bootstrapping

Victim:





# This will take a while...

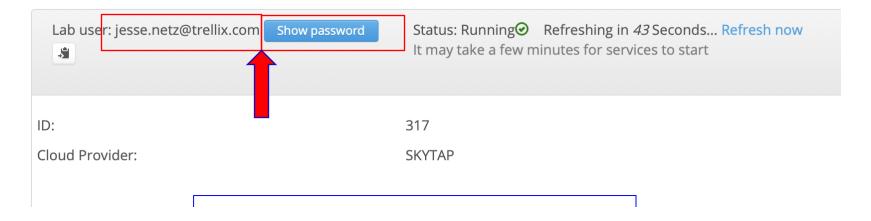
- 1. The system will launch automatically and you will see the login scripts run to prep the system.
- 2. You will be logged out for set up to complete.
- 3. When it is time to log back in, you will need your credentials provided on the CrossFire landing page.



# The End-User Experience.

The first time you log into the endpoint systems, it will need to completed the setup process.

- After this set up, the system will reboot.
- You will log in with your CrossFire credentials.



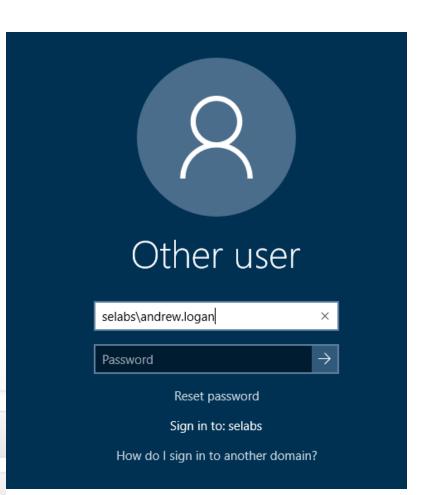


## The End-User Experience.

When logging into the endpoints, you will be prompted for your CrossFire credentials. For example: Selabs\first name.last name Password:

# Alliances Crossfire Lab :: Scenarios Dashboard Scenarios 1 Lab tour Lab user: andrew.logan@trellix com Show password Show

Online Help



### Trellix

# After the reboot....

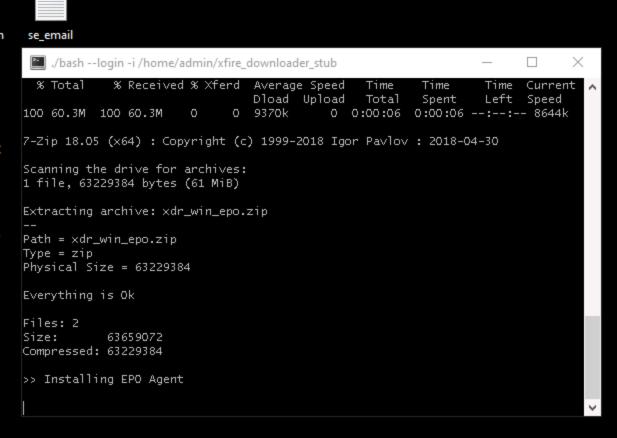
Once you log back in, you will see your desk top.

It will take a few minutes to install the ePO Agent (Trellix Agent).

(get a cup of coffee ☺).

Check the icon tray to see if Trellix Agent is there.

Reboot this system again.





# ... after the reboot you should see this in the tray.

Update Security... Quick Settings > Trellix Endpoint Security View Security Status... Trellix Agent Status Monitor...



# Launch prep.bat

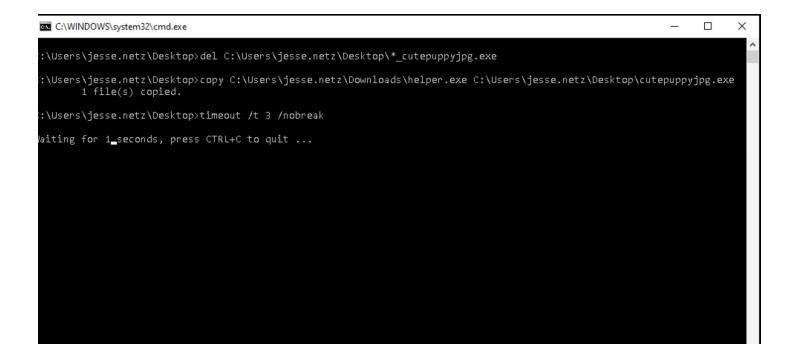
You'll notice a sample will get created on the desktop

%random%\_cutepuppyjpg.exe

This is the sample used to launch the ransomware scenario



## The End-User Experience.





## Choose your scenario

Creating the following files will change the sample's behavior:

- sample/sample.txt Cause the cutepuppy ransomware to download a copy of the DarkPower ransomware and trigger a correlated Trellix Insights Campaign
- exfil/exfil.txt Cause the cutepuppy ransomware to behave poorly after the encryption. This will cause an automatic rollback of the encrypted files.



# **Endpoint Demo**

## At this point you will be ready to demonstrate the Ransomware Endpoint use cases



# Trellix

# Partner and SE Tools

///

How to Access

Diarmuid O'Boyle

Senior Sales Engineer November 10, 2023



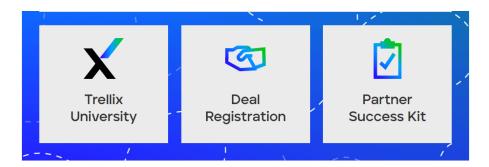
## **Partner Success Engines**







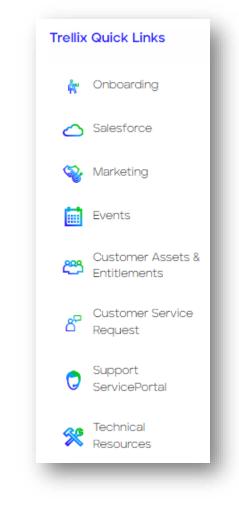
## **Call to Action Buttons**



### **Updated Navigation**

Trellix Xtend Partner Program Opportunity Dashboard Promos and Profitability Content Library Support Profile

## Updated Quick Links

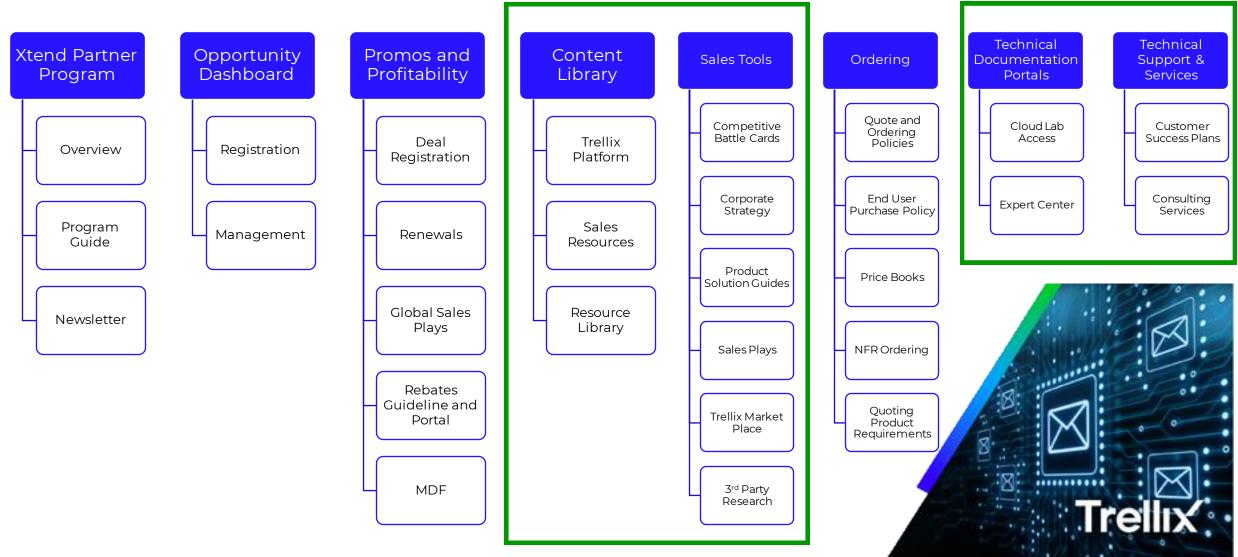


Q

### Trellix



### https://partners.trellix.com





#### https://partners.trellix.com/partner/en-us/solution-provider/product-sales-kits.html Product Sales Kits will be updated frequently

#### Partner Portal – Solution Provider Trellix.com Trellix Q Xtend Partner Program Opportunity Dashboard Promos and Profitability Content Library Support Profile Partner Portal - Solution Provide Trellix.com Product Sales Kits Trellix Xtend Partner Program Opportunity Dashboard Promos and Profitability Content Library Support Profile Q **Trellix Quick Links** Onboarding Salesforce Sunny days for MDF, Rebate and How to Sell Email Security Levelling come October 9! Marketing Events The Trellix Hive is a busy place! A new look and feel across MDF, How to Sell Pitch Decks Data Sheets Rebate and Levelling sections, going live Oct 9. Sales Play Training - Email Security 🗗 **Customer Overview Deck - Email** Trellix Email Security - Cloud ± Customer Please look out for emails with reminders, trainings and more! How to Sell Email Security ± Security ± Trellix Email Security - Server 上 Assets & Entitlements Value Discovery Guide -Customer Overview Deck -Trellix Collaboration Security -Email Security ± Collaboration Security ± Executive Brief ± Custome a Sales Play Training - Collaboration How Email Security Prevents **Trellix Intelligent Virtual Execution** Service ...... Request Security 2 Ransomware (video) (IVX) ± How to Sell Collaboration Security ± How Trellix Email Security Prevents Support Value Discovery Guide - IVX for Ransomware ± ServicePortal Collaboration Security $\pm$ CCS Technical 5 Resources **Competitive Intelligence** Product training and demos **Price Books 3rd Party Validation & Product** Trellix Product Sales Deal Testina Trellix Email Security vs Proofpoint ± **Trellix Certified Architect: Email** Service Provider University Registration Kits Trellix Email Security vs Microsoft Security 🗗 Partners SE Labs Report ± Battlecard ± Trellix Service Provider: Email How to Use SE Labs Report with **Getting Started** Trellix Email Security vs Microsoft Security 🗳 Customers (video) Competitive Positioning ± SE Labs Conversation Guide ± SE Demo Kit → iAsset Online Trellix Email Security vs Proofpoint SE Labs Fact Sheet ± Competitive Positioning ± IDC Vendor Spotlight on Collaboration

Security ±



Join the Trellix Cyber League today!

Unlock your potential in the Trellix Cyber League.



All Badges are valid for 1 year or until a new version is released (whichever comes first) Must meet enablement requirements within 90 days of joining program

Access through Partner Portal or https://training.trellix.com

Same login and password as the Trellix Partner Portal

Contact <a href="mailto:PartnerCare@Trellix.com">PartnerCare@Trellix.com</a> with login issues



## Trellix

### **Partner SE Technical Bookmarks**



**Product Technical Documentation Portal** 

- Product Documentation:
- https://docs.trellix.com/
- Administration Guides
- Deployment Guides
- System Security Guides
- Release Notes
- Hardware Guides



#### **Cloud Lab**

- CrossFire (ASH):
- https://login.trellix.com/
- MDemo:
- https://trellix-mdemo.skytap-portal.com/
- Consolidation in progress...



#### Communication

Partner Care Team

partnercareemea@trellix.com

MSP Partner Care Team
<u>msppartnercare@trellix.com</u>



### **Expert Center**

Knowledge Base

Forum

- Trellix-F Community:
- <u>https://community.fireeye.com/</u>
- Trellix-M Community:
   <u>https://communitym.trellix.com/</u> Consolidation in progress...



## **Differentiators** Endpoint Security

- /

111

//////

--///



## **Top Endpoint Competitors**







Trellix

# **Endpoint Customer Alternatives**

## Microsoft

What they say	<ul> <li>Endpoint Protection is built-in to Windows with advanced protection, nothing to deploy</li> <li>Inspired by the "assume breach" mindset with their EDR</li> <li>Prevent and detect attacks across your identities, endpoints, apps, email, data, and cloud apps with XDR capabilities</li> </ul>
The Reality	<ul> <li>Difficult to manage and configure, especially at enterprise scale</li> <li>Complex for responders, search is limited to cloud telemetry, and generic alerting</li> <li>The path to XDR has limited integrations and requires their SIEM integrations</li> </ul>
Trellix Differentiation	<ul> <li>Easy to configure and manage comprehensive and customizable modern protection technologies at scale, cloud and on-prem</li> <li>Quickly hunt, detect, and respond to new threats at scale with differentiated direct client communication architecture.</li> <li>Fast path to Trellix open and native XDR with native integration of endpoint, email &amp; network security</li> </ul>

Trellix

## **Endpoint Customer Alternatives**



What they say	<ul> <li>CrowdStrike combines the most effective prevention technologies and full attack visibility with built-in threat intelligence — all in a single lightweight agent</li> <li>Comprehensive visibility that spans detection, investigation, and response to ensure nothing is missed and potential breaches are stopped</li> <li>XDR is the future as long as you have the right endpoint security (EDR)</li> <li>Position Trellix as "legacy" that "relies on signatures"</li> </ul>
The Reality	<ul> <li>3<sup>rd</sup> party testing shows high rates of false positives, which increases SOC workloads</li> <li>Relies on cloud telemetry and access for hunting and control of endpoints</li> <li>Delayed detections in 2022 MITRE Round 4 testing</li> <li>Relies on 3rd party integrations for visibility and context beyond the endpoint</li> <li>No on-prem solution</li> </ul>
Trellix Differentiation	<ul> <li>Easy to configure and manage comprehensive and customizable modern protection technologies at scale, cloud and on-prem</li> <li>Quickly hunt, detect, and respond to new threats at scale with differentiated direct client communication architecture.</li> <li>Fast path to Trellix XDR with native integration of endpoint, email &amp; network security</li> </ul>

## **Endpoint Customer Alternatives**

## **Sentinel**One

What they say	<ul> <li>SentinelOne promotes a single agent and cloud console or on-prem based</li> <li>Achieve greater cross-surface visibility and take action in real-time</li> <li>Welcome to Native and Open XDR</li> <li>Position Trellix as "legacy" that "relies on signatures"</li> </ul>
The Reality	<ul> <li>Unproven prevention capability in 3<sup>rd</sup> party testing and limited configurable controls</li> <li>Relies on cloud telemetry and access for hunting and control of endpoints</li> <li>Relies on 3rd party integrations for visibility and context beyond the endpoint</li> </ul>
Trellix Differentiation	<ul> <li>Easy to configure and manage comprehensive and customizable modern protection technologies at scale, cloud and on-prem</li> <li>Quickly hunt, detect, and respond to new threats at scale with differentiated direct client communication architecture.</li> <li>Fast path to Trellix XDR with native integration of endpoint, email &amp; network security</li> </ul>



## How our Competition Increase Risk and Cost

HE REALITY

Microsoft CROWDSTRIKE "Superior visibility and "Single lightweight "Built-in endpoint and endpoint security" nothing to deploy." agent and cloud console" **UNPROVEN ENDPOINT** INCREASED **GAPS ON-PREM AND MAC GAPS ON-PREM AND** BEFORE "CHECKLIST" FEATURES RIS **COVERAGE LEGACY WIN** THE ATTACK **GENERIC ALERTING**, **HIGH FALSE POSITIVE AND** NO INTEGRATED THREAT INCREASED DURING **COMPLEX INVESTIGATIONS DELAYED DETECTIONS** CAMPAIGN INTEL TIME THE ATTACK INCREASED AFTER LIMITS TO MANAGEMENT, RESPONSE AND DATA COLLECTION AT SCALE COS THE ATTACK

**Trellix Differentiation:** Optimized operational efficiencies and proven enterprise scale protection, advanced visibility and control for rapid response AT SCALE.

Trellix

# What next

Endpoint Security

/

///

11111

--///

//



## Trellix Endpoint Unification VISION

### **XConsole**

- SaaS, Multi-tenant
- Built on MVISION + Helix technology
- Easy to deploy, easy to use
- One console for all experiences

## **Unified Agent**

- EDR + Forensics capabilities
- Best of both companies' technologies
- Lightweight and performance optimized
- Composable Apps (Modules)
- Simple to deploy, upgrade and manage



# **Unified Endpoint**

### North Star Themes & Outcomes

### Deployment Simplification

- Simplified deployment
- Install status
   Observability
- Agent updates & ease of transition from other EPP

Unified Management Console

- Zero context switching
- Unified portfolio policy management
- Rich alert workflows (visualization, context, actionability)

Comprehensive Endpoint Security

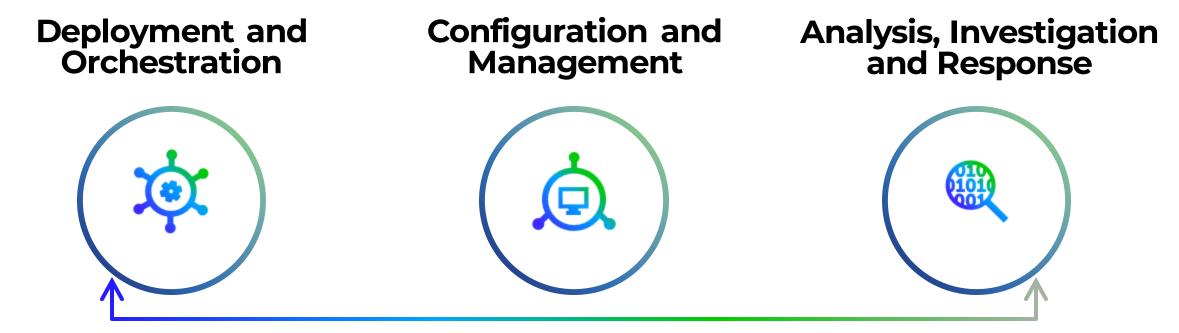
- Best in class Protection, Detection & Remediation
- Rapid Triage & Deep
   Investigations
- Full spectrum Incident Response
- Reduced footprint
- Improved performance

### Improved Extensibility & Scalability

- Modular platform
- Extensible for XDR
- Accelerated release cadence
- API based
- COGS reduction



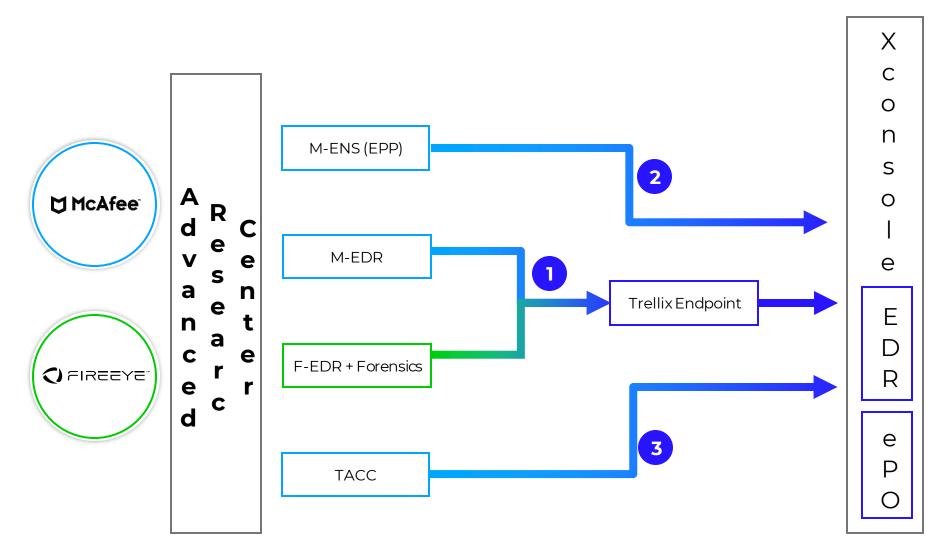
## **XConsole Vision: Unified Experience**



Enables customers to use Trellix SaaS services and onprem products in unified hybrid experience



## **Trellix Endpoint Security Stack**







## Endpoint Security Journey

### Enhanced EDR Q2 2023

SECURITY EXCELLENCE: EDR + forensics

- Expanded alerting on Indicators of Compromise (IoC) AMSI & Logon Tracker
- Forensic Alert threats in EDR

EASE OF DEPLOY: Integrated Deployment

• Integrated agent deployment via ePO

### **Endpoint/Datacenter Security**

• HYBRID CLOUD: Mac (M1/M2) native support

### EDR with Advanced Response 2H 2023

EASE OF MANAGEMENT: EDR + forensics

- Simplified Auth for EDR & HX (Forensics)
- Integrated user experience across ePO, EDR & HX (Forensics)
- XConsole architecture for UI and workflows
- Policy management

security excellence: Advanced response actions

- Host Remediation
- File/Memory/Process Acquisitions
- Forensic (Enterprise) Search (also new depth from EDR vantage)

EASE OF DEPLOY: Integrated Deployment

- Integrated agent deployment via ePO
- Mac M1/M2 native support in HX

### Endpoint/Datacenter Security

- ePO SaaS for App Control
- CWS support for GCP

### EDR Advanced Forensics 2024 +

SECURITY EXCELLENCE : Investigation Workflows

- Cross-App Alert Workflow with Storytime View to understand sequence of events
- Alert Enrichment for rich context and behavior analysis
- Evidence Acquisition at scale
- Automated response options
- Assisted investigations through playbooks
- Auto Evidence Capture (Acquisitions)
- Seamless detection to forensic workflows
- XConsole Interface (Modern UI)

#### EASE OF MANAGEMENT:

• Enterprise centric security through behavioral analytics at user & org level

### Endpoint/Datacenter Security

HYBRID CLOUD: Platform support & Certifications

- ARM support on Win & Linux
- Advanced security for Containers
- FedRAMP & IL5



## A Unified Endpoint Experience

The information contained in this presentation is for informational purposes only and should not be deemed an offer by Trellix, create obligations for Trellix, or create expectations of future releases which impact your current purchase decision. Trellix reserves the right to modify, discontinue, add or subtract features or functionality to its existing products and planned future releases at any time at its sole discretion.

# Point of Contacts Endpoint Security

111

/////

--///

111



# Contact us

Email

## partnercareemea@trellix.com



# Trellix

# **Thank You!**

///////