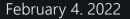


The open complete threat detection IBM QRadar XDR

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IBM.

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1. QRadar XDR
 2. ReaQta EDR
 3. Q&A

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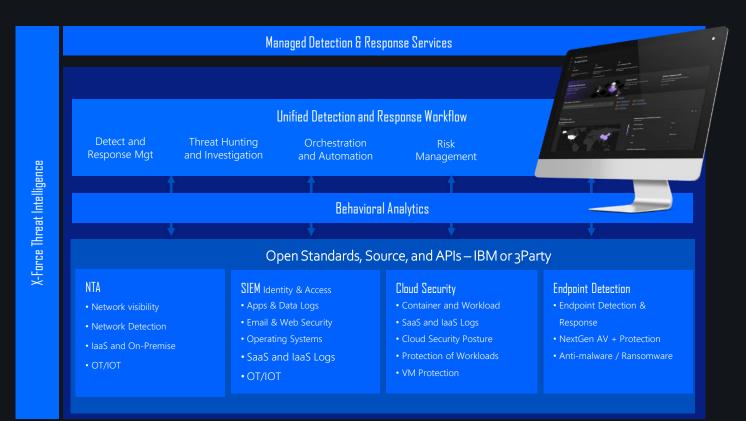
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QRadar XDR

QRadar Vision

- Provides intelligence, automation, openness and seamless workflow across threat detection and response
- Utilizes existing investments in 3rd party tools
- Based on open technologies and standards to avoid lock in and future choice



Evolution and modernization of QRadar



Open Cybersecurity Alliance (OCA): Co-founded by IBM to promote and and support open security



https://opencybersecurityalliance.org/ https://oasis-open-projects.org/

GrammaTech

Hitachi

Huawei

IXIASOFT

McAfee, LLC

NEC Corporation

Microsoft

nCipher

Oracle

P6R, Inc.

Red Hat

Logius

Hewlett Packard

Technologies

Enterprise (HPE)

Who

Global like-minded cybersecurity vendors, end users, thought leaders & individuals

Vision

Open Cyber Security Ecosystem: Products freely exchange information, insights, analytics & orchestrated response

How

Security

Open Commonly developed code & tooling Mutually agreed upon technologies, standards & procedures

Technical Committee Sponsors

- Accenture, LLP
- <u>Adobe Systems</u>
- <u>Anomali</u>
- Incorporated
- <u>Cisco Systems</u>
- <u>Copado</u>
- <u>Cryptsoft</u>
- <u>Cyware Labs</u>
- Dell
- <u>EclecticIQ</u>
- EMQ Technologies
- European Union
- Publications Office
- File and ServeXpress
- <u>Fujitsu</u>

- SAP
 - <u>Security Compass</u>
 - <u>SEKOIA</u>
 - Sophos Ltd
 - <u>Sopra Steria Group</u>
 - <u>TELUS</u>
 - <u>ThreatQuotient, Inc.</u>
 - <u>Trend Micro, Inc.</u>
 - <u>Tyler Technologies</u>
 - US Department of
 Defense (DoD)
 - US Federal Bureau of
 Investigation
 - US NIST





PROJECTS

OCA advances a growing body of open source projects.



Kestrel Threat Hunting Language Provides an abstraction for threat hunters to focus on what to hunt instead of how to hunt



STIX Shifter Patterning Library Allows data to be normalized across domains for comprehensive security analysis



OpenDXL Ontology Messaging Format Enables real-time data exchange and crossvendor orchestration



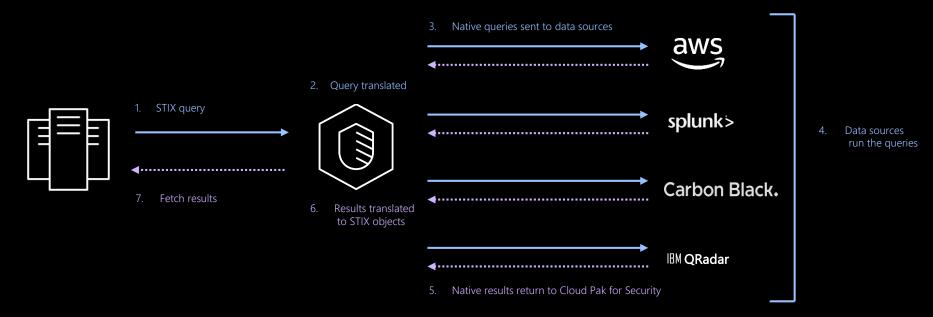
NIST SCAP v2

IBM Security

Data Collection Architecture Supports continuous monitoring for tracking assets' policy compliance

IBM

STIX Shifter – How it works



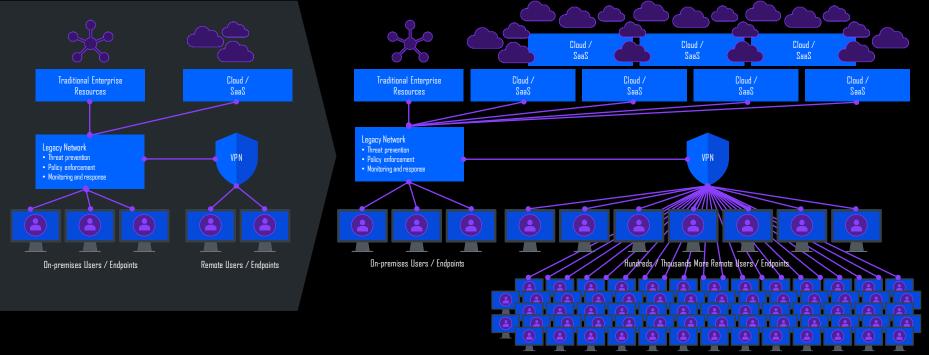
- 1. Federated query using a STIX pattern
- 2. Query is translated to the native query language of each of the data sources
- 3. The converted query is then sent (transmitted) to all data sources
- 4. Each data source runs its own native query

- 5. The native query results are then returned from the data source
- 6. Returned results translated into STIX Objects (basically a JSON structure)
- 7. The STIX Objects are then stored in the cloud where they are used by other services

Evolving enterprise architectures is forcing enterprises to rethink their security approach

Previous Enterprise Architectures

Current Enterprise Architecture Complexity



Legacy defenses and security teams face challenges against advanced threats

Costs and complexity

Many siloed tools and disjointed workflows can increase costs

Poor visibility

Digital transformation and cloud adoption have expanded monitoring needs, but there can be blind spots



Missed threats

Traditional approaches rely on finding what's known and can miss new attacks

Struggle to keep up

Today's threats are extremely complex and automated, humans can have difficulty evaluating many fast-moving parts at once How organizations can modernize threat detection and response







Eliminate silos

Gain visibility across data sources — from the cloud to the core

Unify workflows

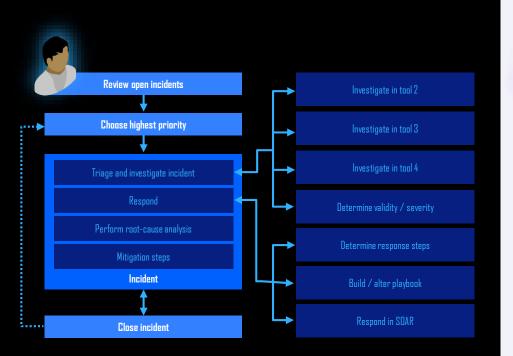
Work without pivoting between tools

Automate work

Let machines do the heavy lifting whether mundane tasks or complex analysis

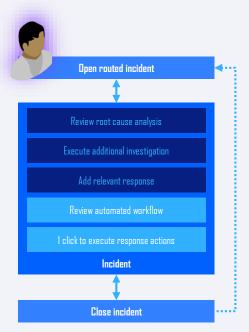
BEFORE

Security analysts typical workflow complexity



AFTER

Simplified workflow using QRadar XDR



- Fewer, more accurate alerts with an open scalable approach
- Leverage existing tools and avoid vendor lock in
- Streamlined workflow, reduced manual effort thanks to automation
- Pre-built detection and response so teams can protect your organization, even without deep security expertise

Source: Forrester Report, Adapt Or Die: XDR Is On A Collision Course With SIEM And SOAR, April 2021 IBM Security / © IBM Corporation 2021

IBM Security QRadar XDR, an Open, Connected Approach

Connected - Integration with Existing Tools or IBM's

The industry's largest Open XDR ecosystem can integrate your EDR, SIEM, NDR, SOAR and Threat Intelligence, while leaving data where it is for a complete XDR approach

Unified - Single User Experience across Tools & Teams

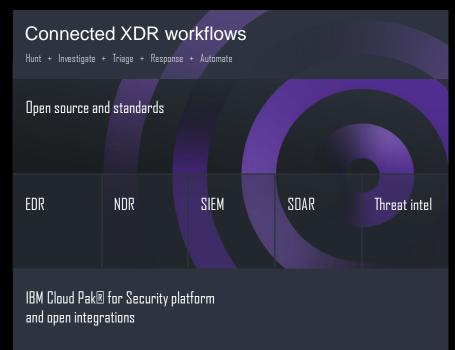
Simple XDR workflows, co-designed with experts, help speed up alert triage, threat hunting, investigation and response

Intelligent - Al Built for Analyst Productivity

Automate the work of enriching, correlating, and investigating threats with purpose-built AI and pre-built playbooks, including automated root cause analysis and MITRE ATT&CK mapping

Open — Adaptable Architecture to Help Avoid Lock-In

Built on IBM Cloud Pak for Security for deployment on premises or on cloud, and ready for use by security service providers IBM Security QRadar XDR



IBM Security QRadar XDR, an Open, Connected Approach

IBM Security QRadar XDR

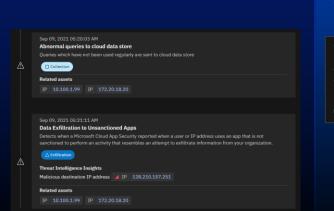
IBM Security QRadar XDR Connect	Connect your tools and automate your SOC using IBM and open third-party integrations								
Open Source and Standards									
EDR	SIEM	NDR	SDAR	Threat Intel	Open Integrations				
O REAQTA	IBM Security QRadar SIEM	IBM Security QRadar NDR	IBM Security QRadar SDAR	IBM Security X-Force	aws				
cybereason	splunk>	ັງຶDARK TRACE	the paloalto	Alien Vault cisco	Microsoft Azure				
CROWDSTRIKE	Azure Sentinel		splunk>						
vm ware [.] Carbon Black		• .e ExtraHop	phantom		MySql				
	ArcSight		service now	REVERSING SANS					
Windows Defender	Elastic Search	Vectra	\$ SWIMLANE	THREATQUOTIENT DIVISTOTAL	© tenable				
More EDR Integrations		Requires QRadar : with QRadar >		More Threat Intelligence Integrations	Many More Open Integrations				

IBM Security QRadar XDR Connect

Connect your tools, automate your SOC, and free up time for what matters most

Gain enhanced insights while improving threat detection

Correlate related alerts by connecting additional telemetry and prioritize threats to eliminate alert fatigue.



Act quickly with automated threat investigations and accelerated threat hunting

Use AI to automate case investigation and correlate data, allowing more time for strategic imperatives. Improve prioritization, root-cause analysis and response with MITRE ATT&CK mapping and contextual intelligence.

Threat Investigator Configuration

Threat Investigator automatically analyzes and investigates cases to help you make more informed decisions.

Enable automatic cas



Watson recommends the following response actions: (More details) Block the following IP: 2.56,137,17

IP 2.56.137.17 is external and has a threat intelligence indication on it. There is an event log which indicates network traffic between 172.16.100.100 and 2.56.137.17

Blacklist the following hash: 5d41402abc4b2a76b9719d911017c592

A file exists with this hash that has a threat intelligence indication on it. There is an event log that indicates this file was observed on at least one host.

Block the following domain: vpn-server1.evil.org

A domain exists that has a threat intelligence indication on it. There is an event log of an internal host that accessed this url and this host has another finding associated to.

Leverage your existing security tools with an open approach

Enable your teams to connect a full range of tools, data and intel feeds to modernize your SOC.



 \rightarrow

Data Explorer

Federated search & investigation

- Run queries and find insights against multiple data sources without moving your data
- Investigate from a single unified interface to search threats and IOCs
- Immediately see the attributes in a log and pivot to discover statistically relevant attributes



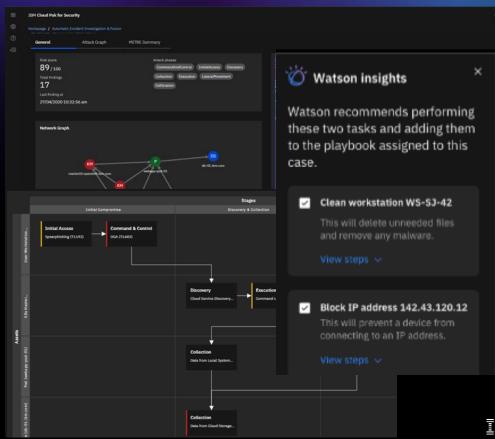
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	Query builder								
	ятіх								
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Query builder						AWS Stix			
						Carbon Black Stix			
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 ipv4-addrtvalue 			AWS** Access Key ID AWS** Secret Access Key	Data Source Tenant Client ID	Data Source Port Data Source Username	Data Source IP address Data Source Security Token	Data Source Username Data Source Password		
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v urtvalue			Data Source Username Data Source Password	What you will need: • Data Source IP address		Data Source Security Token Data Source Certificate (If self-signed)	Data Source Security Token Request to QRoC for White Listing		
 user-account:user_id 			Client ID Client Secret	Data Source Tenant Client ID					
Custom properties				17					
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Automatic, accurate, consistent threat

investigations increase

SOC effectiveness by reducing manual effort during analysis, evidence acquisition and threat intelligence correlation.

- Simplified Timeline View of the Attack sequences the threat allowing the analyst to better comprehend the issue.
- Mitre ATT&CK Chain Classification provides a clear and concise asset centric view of the threat .
- Recommended remediation steps enables a fast response

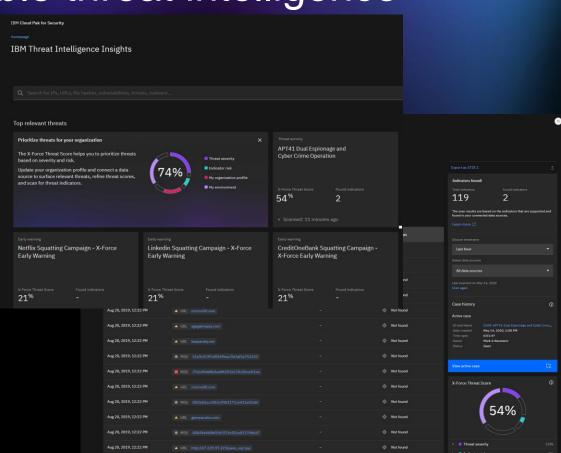


Threat Intelligence Insights Prioritized, actionable threat intelligence

- **Prioritize threats** with X-Force Threat Score, an adaptive score, calculated based on your relevance, severity, penetration, impact and actual environmental sightings
- Identify threats active in your environment with Am I Affected, which runs continuous and automated searches across connected data sources

Security

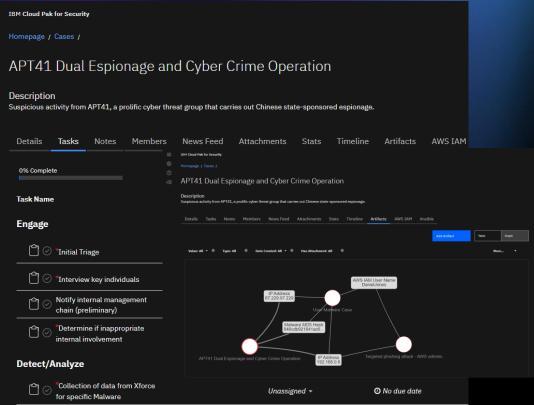
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Cloud Pak for Security - Case Management

Orchestration, automation, and response

- Reduce time to respond to and remediate complex cyber threats by automating Incident Response processes with robust case management and tasks
- Streamline and automate manual and repetitive tasks such as IOC enrichment
- Prioritize analyst workload on highvalue investigation and response activities by guiding analyst response







ReaQta

About ReaQta

O REAQTA

- Founded in 2014 by cybersecurity professionals with deep AI / ML expertise
- Headquarters in Amsterdam and Singapore

Source: https://reagta.com/2020/04/mitre-attack-evaluation-confirms-reagta-hive-advanced-detection-capabilities/

- 30+ employees

MITRE ENGENUITY. | ATT&CK° Evaluations

- #1 in Attack Coverage per Alert Generated
- #2 in Alerts Actionability
- #2 in Alerts Quality

- #3 in Captured Telemetry
- 90% of Attack
 Contained

BEST 2020 PRACTICES AWARD



Industry Recognition

Gartner

COOL

2020

VENDOR

- Gartner Cool Vendor in Network and Endpoint Security, 2020
- Frost & Sullivan's European Technology Innovation Award for Behavioral Cyber Threat Detection, Europe -2020



- Enterprise Security Magazine's Top 10 Endpoint Security Solution Providers in Europe, 2019 - 2020
- EDR of choice from the 2020 Cyber Security Agency of Singapore Cybersecurity Industry Call for Innovation

"Endpoint Security without the extra headache or headcount!" - Energy and Utilities Company

"Great to have a silent assassin in your corner!" - Financial Company

What makes ReaQta a different endpoint protection solution?





ADVANCED

THREAT DETECTION

Automated Al-driven threat detection

- Monitors the Operating System (OS) from the outside
- Offers broad visibility and insight over application's life
- Designed to be invisible to malware
- Proprietary detection of high-level malicious behaviors:
 - Keylogging, Dynamic Impersonation, Credential Harvesting, Kernel Exploits, Screen captures
- 80+ threat behavioral models deployed at the endpoint
- 217+ specific parameters for all detection and hunting needs
- Remediation with single click to help remote kill in real-time
- Allows user to build own detection strategies and playbooks

CAN HELP REDUCE FALSE POSITIVES BY 80%+

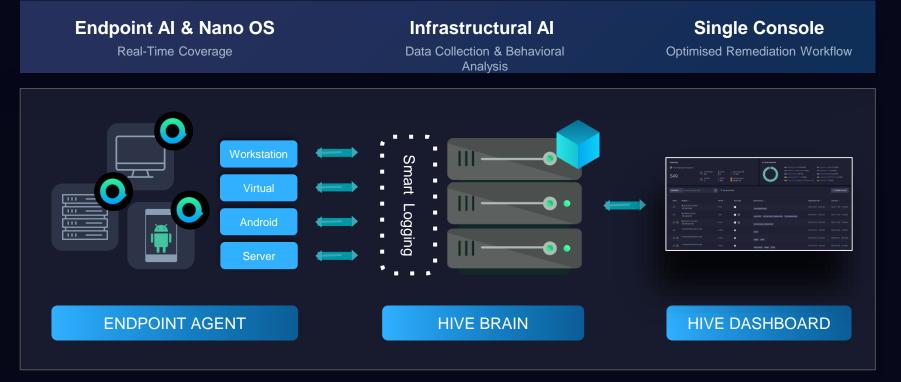
217+ READY PARAMETERS 80+ BEHAVIORS



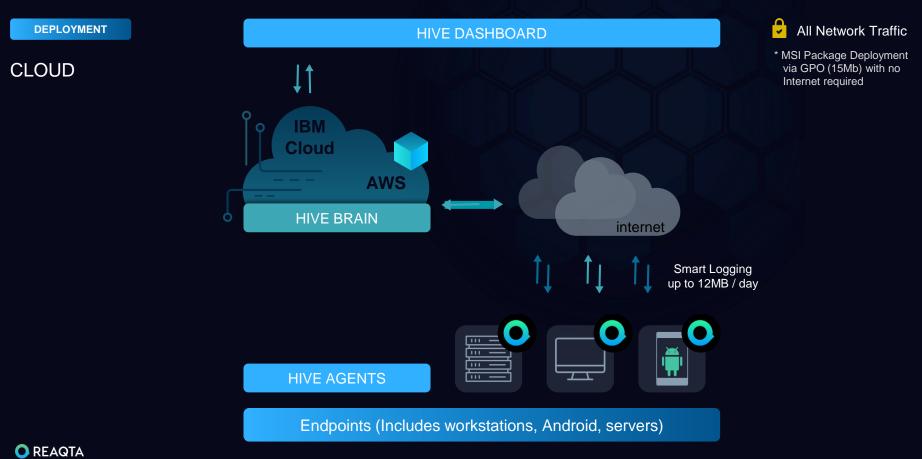
CYBER ASSISTANT One-shot learning system

- Learns from analyst decisions and applies actions
- Can help free up time for analysts to focus on higher level tasks
- Available for single customers or for multi-tenant MSSPs

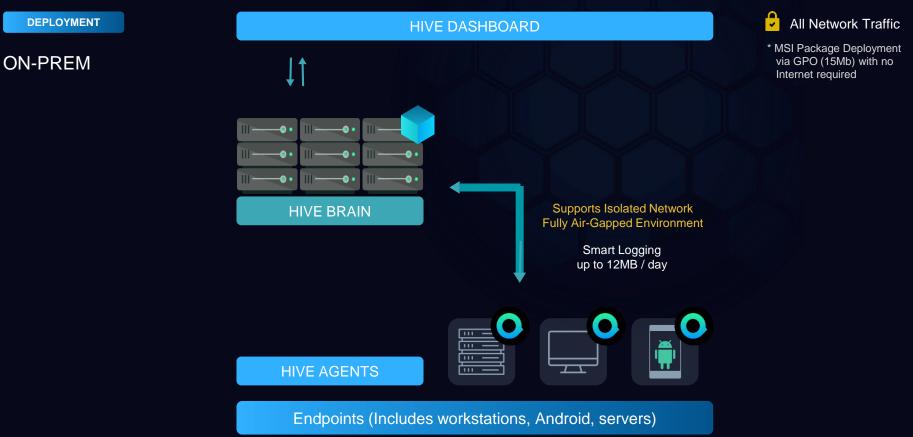












🔾 REAQTA

ReaQta-Hive <u>coexists</u> with <u>any</u> Antivirus solutions to provide an enhanced layer of

security, visibility and **control**.

PROCESS CREATED - NORTONSECURITY.EXE	୍ଦ୍ରୁ EXECUTABLE DROPPED - EPSECURITYSERVICE.EXE	☐ PROCESS CREATED - WSCCLIENT.EXE			
Summary Prevalence SYMANTEC	Summary Executable Info Prevail BITDEFENDER	Summary Prevalence SOPHOS			
PROCESS EXPLORER	PROCESS EXPLORER	PROCESS EXPLORER			
nortonsecurity.exe (PID 6028) 🍺	services.exe (PID 888) 🛅	sedservice.exe (PID 2156) 👔			
L, nortonsecurity.exe 🖿 🛇	L, epsecurityservice.exe 📷 ຍິງ	L, wscclient.exe 🖿 🛇			
Description nortonsecurity.exe created	Description epsecurityservice.exe dropped a new executable to tmp00013bf6	Description wscclient.exe created			
Original File ccsvchst.exe Name	Original File epsecurityservice.exe	Original File wscclient.exe Name			
Arch x64 Certificate EG (Trusted But Expired Certificate)	Arch x64 User NT AUTHORITY\SYSTEM	Arch x64 Certificate EG (Trusted But Expired Certificate)			
Size 321 kB Signer Symantec Corporation	Size 395.2 kB Certificate E2 (Valid Certificate)	Size 626.3 kB Signer Sophos Ltd			
PID 24448 Issuer VeriSign Class 3 Code Signing 2010 CA	PID 3968 Signer Bitdefender SRL	PID 4152 Issuer DigiCert Assured ID Code Signing CA-1			
PPID *C.\Program Files\Symantec.cloud\EndpointProtectionAgent \Engine\22.15.2.26\NortonSecurity.exe* /SpnCommand 5000	PPID 888 Issuer DigiCert Assured ID Code Signing CA-1	PPID 2156 Expired Yes			
Privilege 0 / a /m C.\Program Files\Symantec.cloud\EndpointProtectio nAgent\Engine\22.15.2.26\SpnAVP	Privilege SYSTEM Cloud Score 🥝 Safe	Privilege SYSTEM User NT AUTHORITY\SYSTEM			
CMD Line *C:\Program Files\Symantec.cloud\EndpointProtectionAgent\Engine\22.15.2.2.	CMD Line *C:\Program Files\Bitdefender\Endpoint Security\EPSecurityService.exe* /service	CMD Line *C:\Program Files (x86)\Sophos\Sophos Anti-Virus\WSCClient.exe*/status enab			
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C PROCESS TERMINATED - APEXONELOGCOUNTER.EXE	다 PROCESS CREATED - MCCSPSERVICEHOST.EXE	Summary Prevalence			
Summary Prevalence TRENDMICRO	Summary Prevalence MCAFEE	PROCESS EXPLORER WINDOWS DEFENDER			
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PID 8220 Signer Trend Micro, Inc.	PID 15492 Signer McAfee, LLC.	PID 2480 Issuer Microsoft Windows Production PCA 2011			
PPID 6284 Issuer DigiCert High Assurance Code Signing CA-1	PPID 984 Issuer McAfee Code Signing CA 2	PPID 600 Expired No			
Privilege SYSTEM Cloud Score 🥝 Safe	Privilege SYSTEM Cloud Score 🤡 Safe	Privilege 'C:\ProgramData\Microsoft\Windows Defender\platform\4.1 8:2001.10-0\MsMpEng.exe'			
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O REAQTA

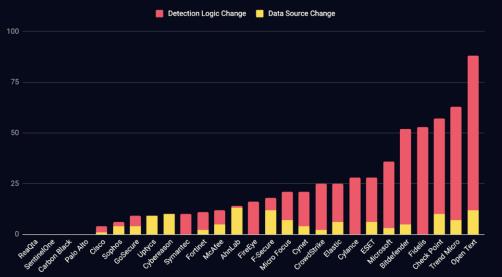


O REAQTA

Results in **MITRE ATT&CK** evaluation

100% detection coverage across the cyber kill chain No configuration changes during the entire evaluation

MITRE Round 3 - Configuration Changes



MITRE REAQTA ReaQta-Hive did 100% of detections without **configuration changes**. Configuration changes help vendors adjust their detections as the attack progresses. Most vendors had to tweak their product 'antennas' multiple times before being able to detect alerts.

Why is this Important?

In real-life scenarios, configuration changes are usually unrealistic. Attackers do not give defenders a second chance to tweak their **detections** before moving to the next step. If a platform requires several configuration changes to operate at peak efficiency – or to detect an active threat - its autonomous detection capabilities are inevitably impaired, as with its ability to respond in real-time. 29

Questions?





THANK YOU

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