CORTEX
BY PALO ALTO NETWORKS

How Cortex can help Healthcare organisations?

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Palo Alto Networks Portfolio

Strata PA-Series
ML-Powered Next-Generation Firewall
App-ID | User-ID | Content-ID | Device-ID

VM-Series
Virtual Next-Generation Firewall
App-ID | User-ID | Content-ID | Device-ID

CN-Series
Containerized Next-Generation Firewall
App-ID | User-ID | Content-ID | Device-ID

Panorama
Firewall Management

Prisma Access
Secure Access Service Edge
FWaaS | Secure Web Gateway | Zero Trust Network Access

Prisma Cloud
Cloud Native Security Platform
Cloud Security Posture Management | Cloud Workload Protection | Cloud Network Security | Cloud Infrastructure Entitlement Management

Prisma SD-WAN
Next-Generation SD-WAN
SD-WAN

Cortex XDR
Extended Detection and Response
Endpoint Threat Prevention | Endpoint Detection & Response | Behavioral Analytics | Managed Detection & Response

Cortex XSOAR
Extended Security Orchestration, Automation and Response
Security Orchestration, Automation & Response | Threat Intelligence Management

Expanse
Attack Surface Management
Internet-Connected Asset Discovery & Mitigation

Unit42
Cybersecurity Services
Data Breach Response | Cyber Risk & Resilience Management | Incident Response Services

Cloud-Delivered Security Services

DNS Security	Threat Prevention	URL Filtering	WildFire	IoT Security	GlobalProtect	SD-WAN	Data Loss Prevention	Prisma SaaS
DNS Attack Prevention	Exploit, Malware, C2 Prevention	Malicious Site & Phishing Prevention	Malware Prevention	Enterprise IoT Security	Mobile User Security	Secure Branch Connectivity	Data Protection & Compliance	In-line & API SaaS Application Security

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Healthcare security challenges :

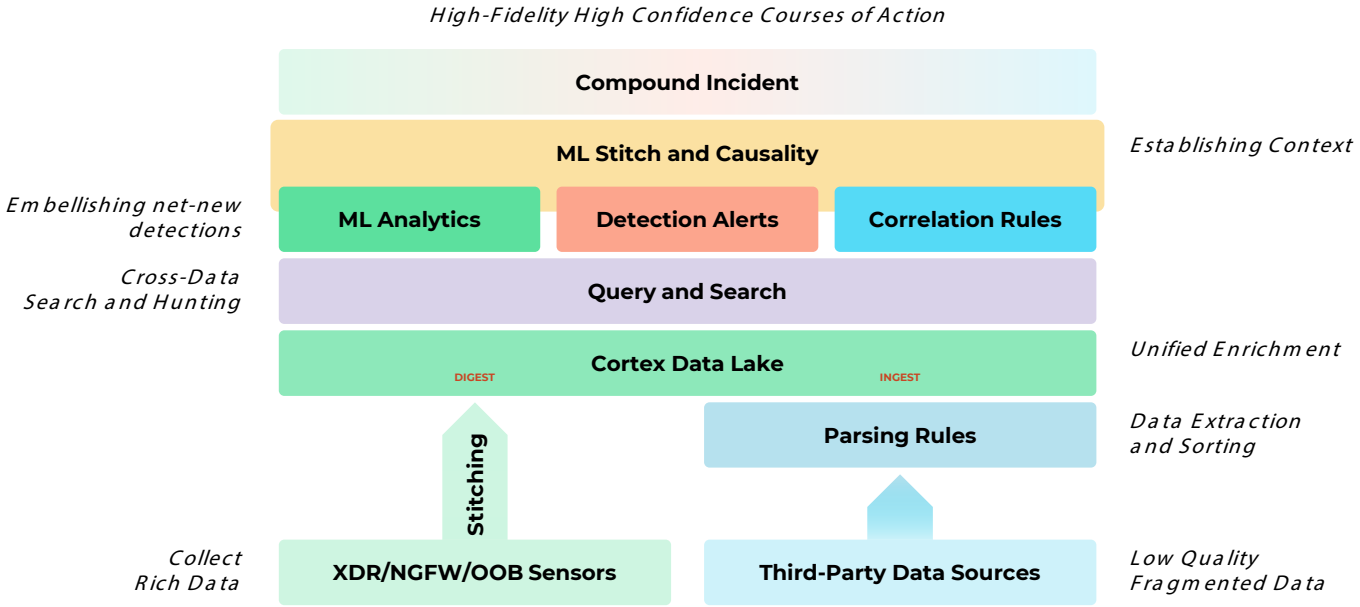
- Budget constraints
- Lack of security personnel
- Difficulty to apply consistent security policies across all the departments (Flexibility / local management, shadow IT, Heterogeneous IT & unmanaged assets)
- Sophisticated attacks are targeting significantly healthcare organisations, impacting the CIA of the patient data

How Cortex might help? : Budget constraint

Conceptual view

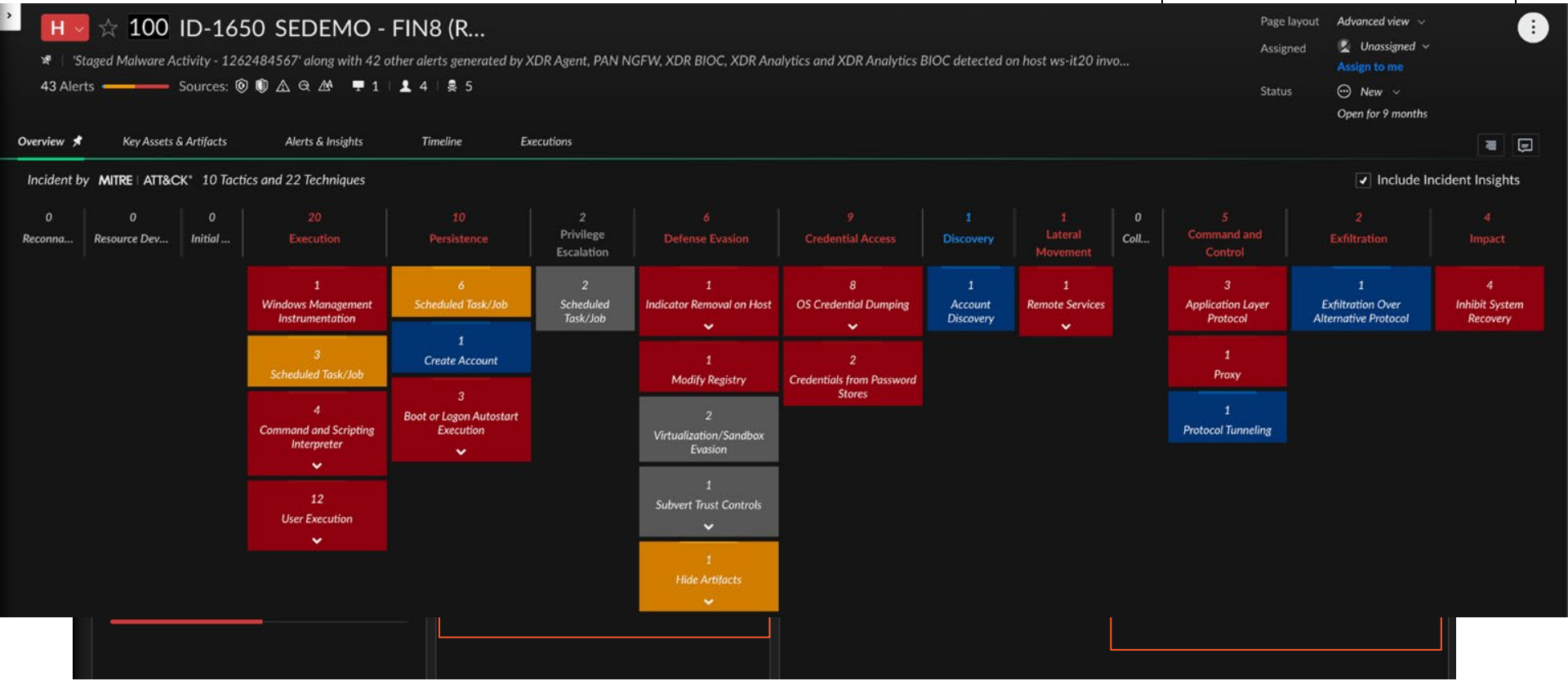
Cortex solution : **CONSOLIDATION and CENTRALIZATION of security objects**

You cannot secure what you cannot see…



How Cortex might help? : Budget constraint

Technical view

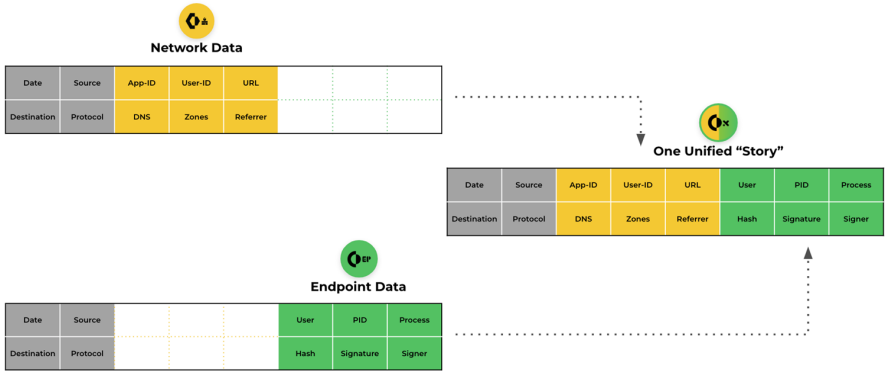


How Cortex might help? : Lack of security personnel

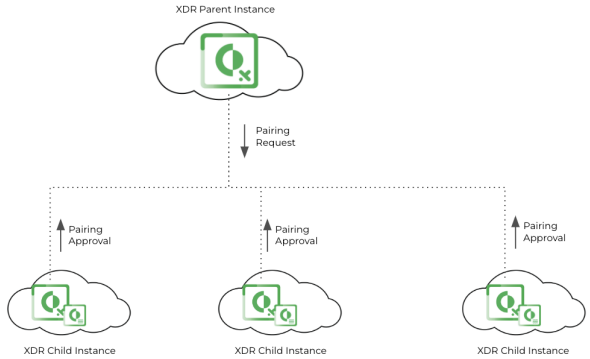
Conceptual view

Cortex solution : **Stitching of data (NGFW, O365, Cloud, etc...) / Multi-tenancy support**

Data normalization and smart incident generation



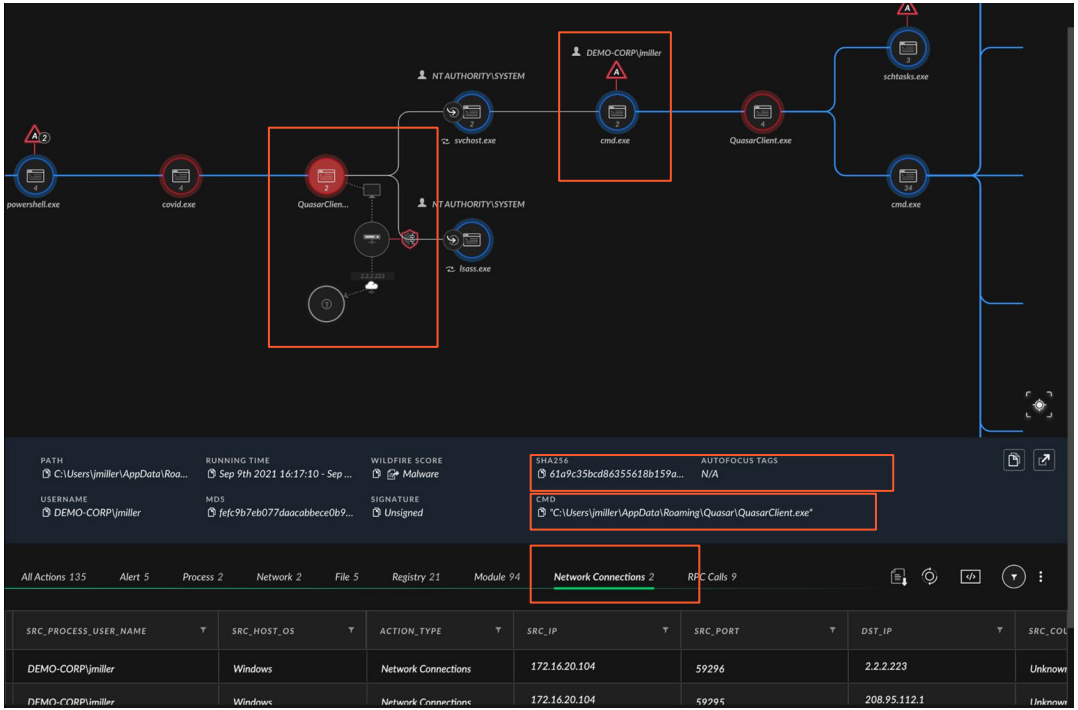
Data is key (Visualisation / Analytics / Automation)



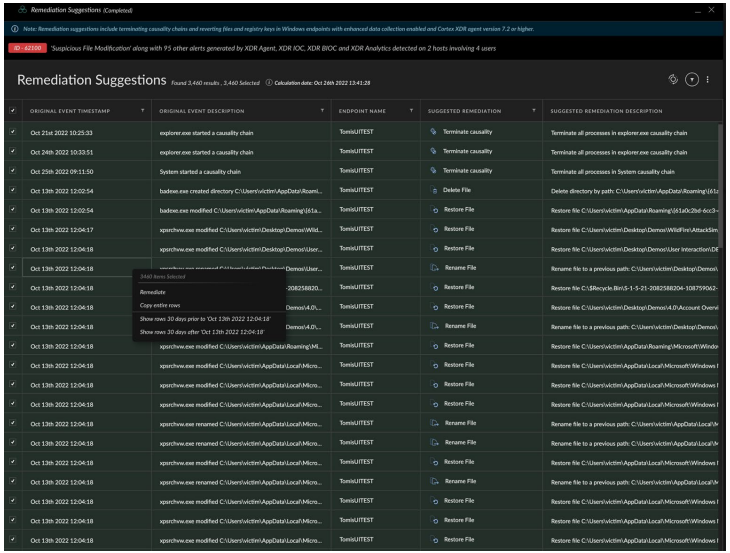
-State of the art technology for Multi-tenancy Share responsibility model
-Advanced service (Assessment, MSS, Threat hunting, Incident response/retainer)

How Cortex might help? : Lack of security personnel

Technical view



Full incident story to pivot from ...



Remediation suggestion, baseline for automated actions

How Cortex might help? : Security policy consistency

Conceptual view

Cortex solution : **Single platform for deployment, asset discovery, extended tooling**

Single platform for Server, Mobile, Win/Mac end user

Discover

- Agent discovery
- Local mapping (Broker VM)
- AD import
- Cloud import
- Analytics

Install

- Package deployment with local tools
- Lightweight agent
- Log collection only
- Dynamic group policy
- Unified agent (cloud/local)

Manage

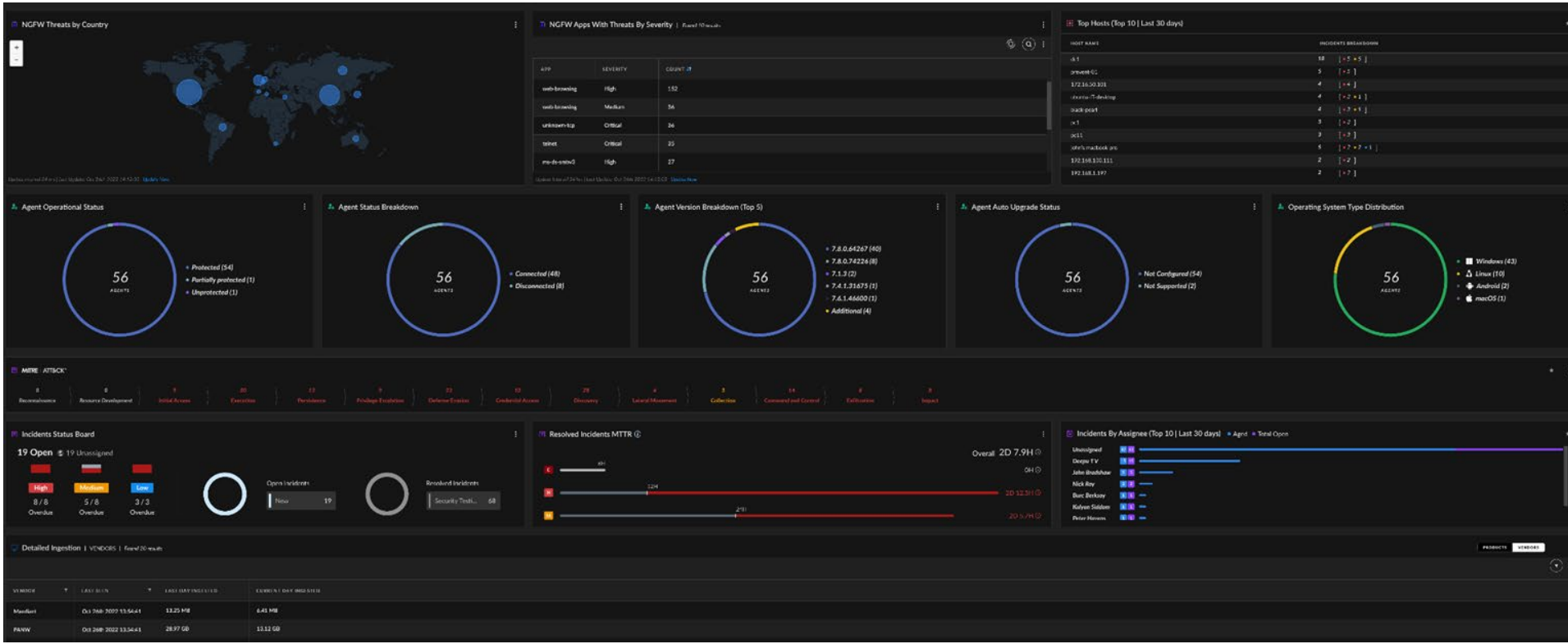
- Local/Global exceptions (incl.Hardening)
- Agent Auto-Update with test environment
- Automate IoC/changes from API (Automation services)

Improve

- Customize local detection
- Report on incident closure
- Measure your MTTD/R
- SOC tool improvement (qualitative log sources, vendor support,etc..)

How Cortex might help? : Security policy consistency

Technical view



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How Cortex might help? : Sophisticated attacks

Conceptual view

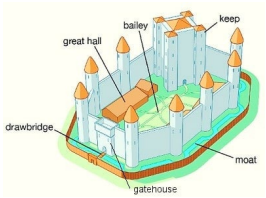
Cortex solution : **State of the art prevention, detection, analytics and response technology**

Complete protection lifecycle

HARDENING

- Device control
- Check Encrypt
- Host Firewall

PREVENTION



- Exploit prevention (Technique + Netw. based)
- Malware prevention (ML / Sandbox)
- Malicious Behaviour prevention

ADV. DETECTION

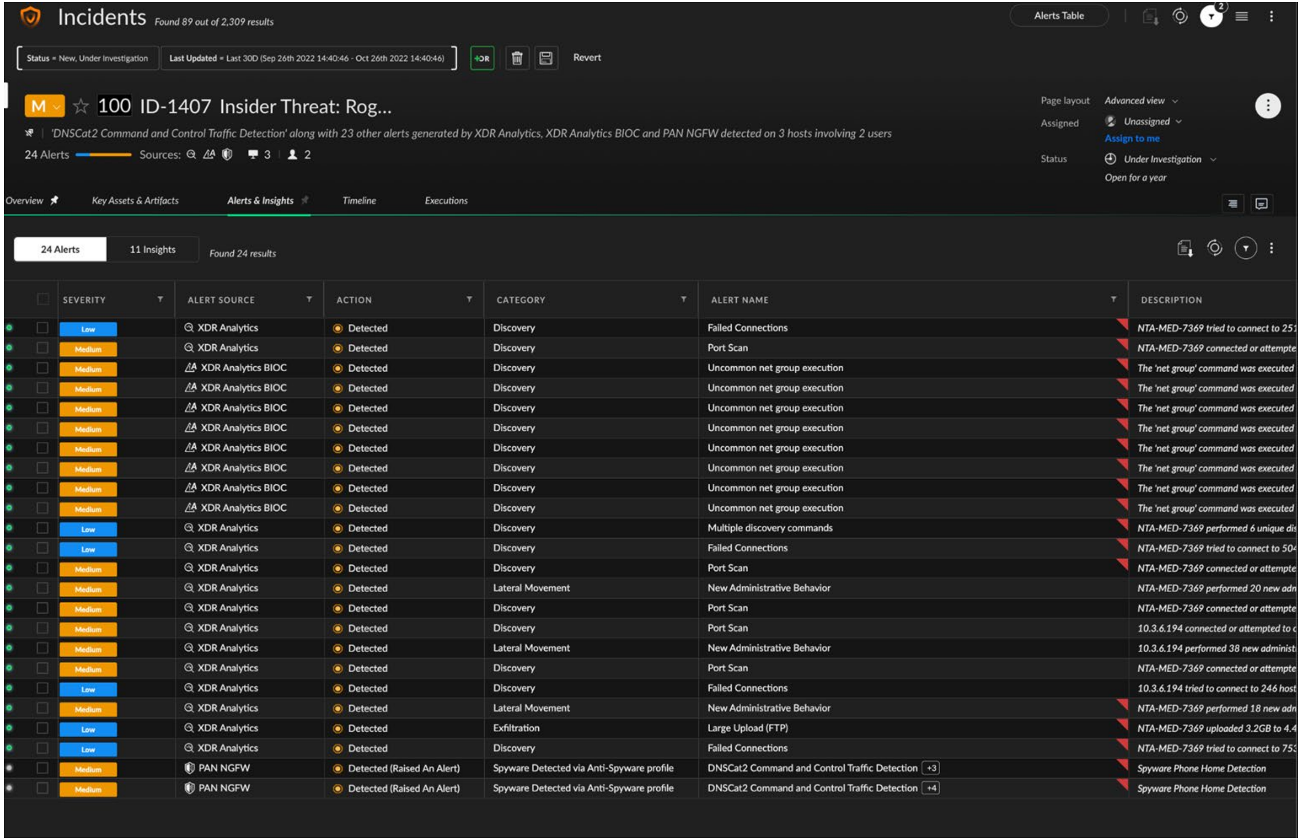
- Telemetry based detection
- Analytics based detection
- Correlation based detection

RESPONSE

- Full remote access
- Python script execution
- Powerful query language
- Forensics module

How Cortex might help? : Sophisticated attacks

Technical view



SEVERITY	ALERT SOURCE	ACTION	CATEGORY	ALERT NAME	DESCRIPTION
Low	XDR Analytics	Detected	Discovery	Failed Connections	NTA-MED-7369 tried to connect to 251
Medium	XDR Analytics	Detected	Discovery	Port Scan	NTA-MED-7369 connected or attempte
Medium	XDR Analytics BIOC	Detected	Discovery	Uncommon net group execution	The 'net group' command was executed
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Low	XDR Analytics	Detected	Discovery	Multiple discovery commands	NTA-MED-7369 performed 6 unique dis
Low	XDR Analytics	Detected	Discovery	Failed Connections	NTA-MED-7369 tried to connect to 504
Medium	XDR Analytics	Detected	Discovery	Port Scan	NTA-MED-7369 connected or attempte
Medium	XDR Analytics	Detected	Lateral Movement	New Administrative Behavior	NTA-MED-7369 performed 20 new adn
Medium	XDR Analytics	Detected	Discovery	Port Scan	NTA-MED-7369 connected or attempte
Medium	XDR Analytics	Detected	Discovery	Port Scan	10.3.6.194 connected or attempted to c
Medium	XDR Analytics	Detected	Lateral Movement	New Administrative Behavior	10.3.6.194 performed 38 new administ
Medium	XDR Analytics	Detected	Discovery	Port Scan	NTA-MED-7369 connected or attempte
Low	XDR Analytics	Detected	Discovery	Failed Connections	10.3.6.194 tried to connect to 246 host
Medium	XDR Analytics	Detected	Lateral Movement	New Administrative Behavior	NTA-MED-7369 performed 18 new adn
Low	XDR Analytics	Detected	Exfiltration	Large Upload (FTP)	NTA-MED-7369 uploaded 3.2GB to 4.4
Low	XDR Analytics	Detected	Discovery	Failed Connections	NTA-MED-7369 tried to connect to 753
Medium	PAN NGFW	Detected (Raised An Alert)	Spyware Detected via Anti-Spyware profile	DNSCat2 Command and Control Traffic Detection +3	Spyware Phone Home Detection
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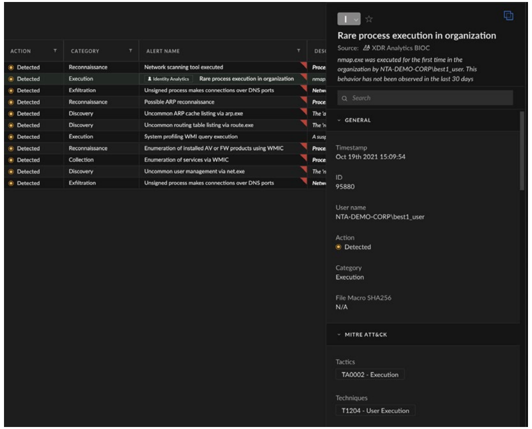

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THANK YOU