Zero Trust

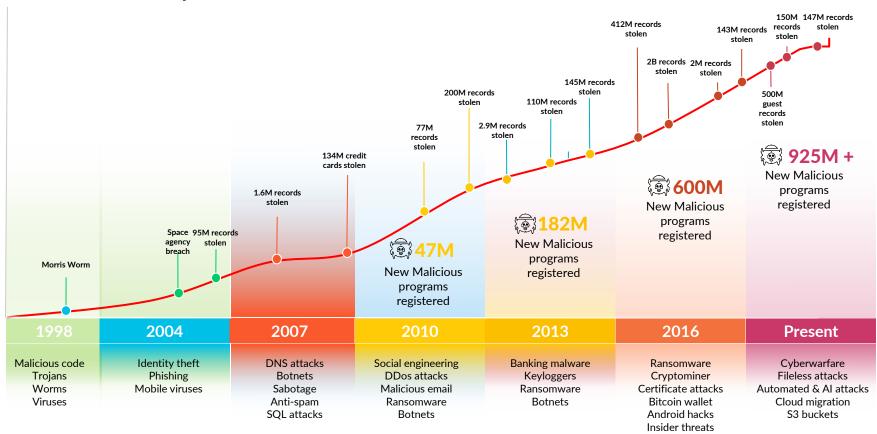
Security Orchestration and Automation

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We all know the problem



The rapid growth of these offensive threats emphasizes the need for the Department of Defense (DoD) to adapt and significantly improve our deterrence strategies and cybersecurity implementations.

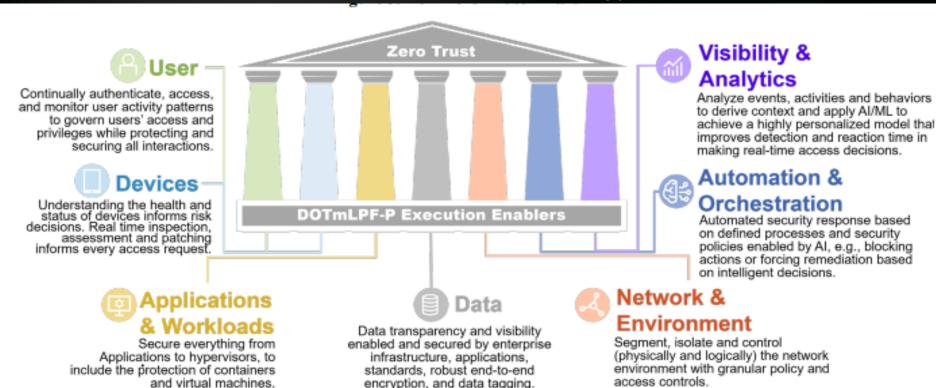
Our adversaries are in our networks, exfiltrating our data, and exploiting the Department's users.

Defending DoD networks with high-powered and ever-more sophisticated perimeter defenses is no longer sufficient for achieving cyber resiliency and securing our information enterprise that spans geographic borders, interfaces with external partners, and support to millions of authorized users, many of which now require access to DoD networks outside traditional boundaries, such as work from home.

To meet these challenges, the DoD requires an enhanced cybersecurity framework built upon Zero Trust principles that must be adopted across the Department, enterprisewide, as quickly as possible...

That means

DoD CIO – Zero Trust Strategy



Because...

So we need to focus on:









Why security teams struggle



Too many alerts & not enough people to handle them

174k



Repetitive & manual actions across siloed tools take too much analyst time

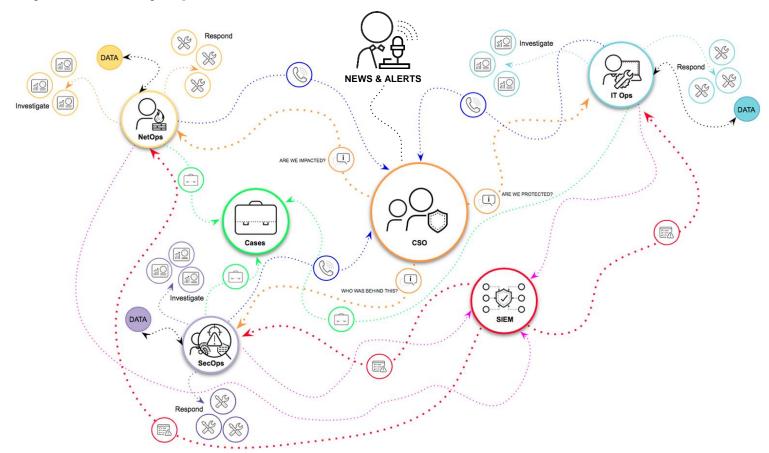
30+



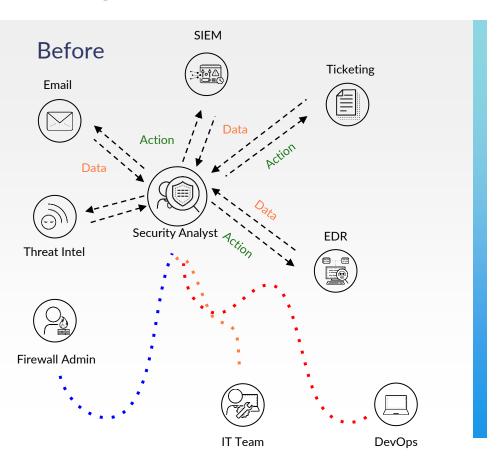
It takes days to understand incidents & investigate threats

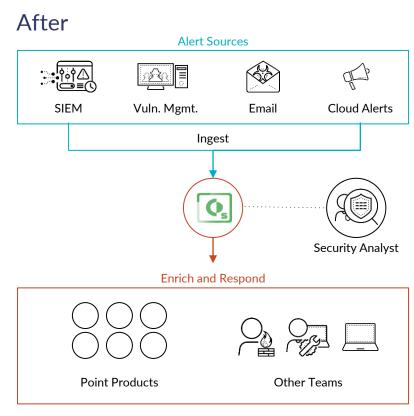
4+ days

The reality of security operations...

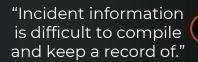


Security Processes Automation





Your SecOps Team Today





"Communicating with end users and other teams takes up a lot of my time."

"We receive hundreds of alerts a day...user issues, network traffic, malware alerts, cloud security alerts."



"There are so many tools and the solutions I use require a lot of brain power and so many clicks."

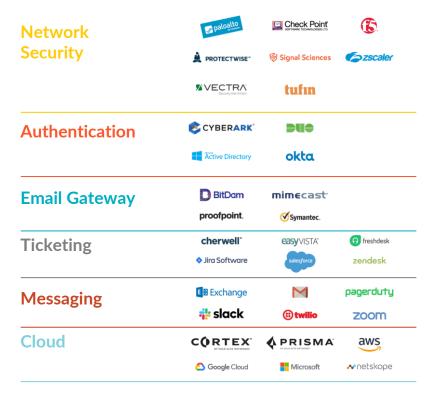
"Small team and we are on-call 24/7 even on holidays."



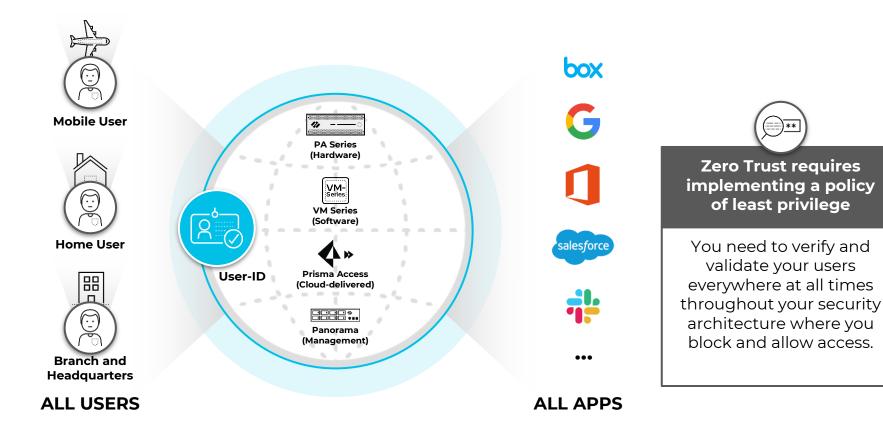
"I have no way of filtering through duplicate alerts."

Breadth Your SecOps Team is probably dealing with Today

Analytics	CORTEX.	DEVO	 exabeam
and SIEM	F ∷ RTINET.	∭ JASK	:::LogRhythm The Security Intelligence Company
	McAfee Together is power.	O MICRO	Radar*
	splunk>	sumologic	
Threat Intelligence	paloatto	ALIEN VAULT	ANOMALI
	COFENSE		DOMAINTOOLS
	F≪RSIGHT SECURITY	OpenPhish	· Recorded Future
	VirusTotal		
Malware Analysis	paloalto.	cisco.	cuckoo
	○ FIREEYET	intezer	J_OSecurity
	KOODOUS	REVERSING LABS	SNDBOX
Endpoint	CORTEX.	Carbon Black.	CounterTack
	CROWDSTRIKE	⊘ cybereason	₿ CYLANCE
	(II) SentinelOne	⋖ Symantec.	GTANIUM.



...and 100s more!



Palo Alto Networks introduced User-ID to write identity-based policies more than a decade ago.

How to begin?

Integrate disparate technologies to enforce cohesive, ubiquitous security policy



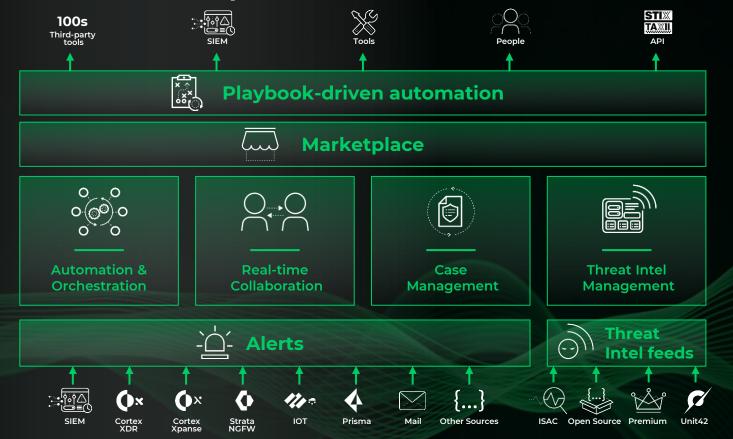
Automate manual and redundant processes



Orchestrate the technologies and user as well as analysts and operators efforts to support the Zero Trust tenants

Do not Automate
what you cannot
properly Orchetsrate
and you cannot
Orchestrate what you
do not sufficiently
Integrate

Integration: The first step to Orchestration



You will need to unlock your SOC with Orchestration and **Automation**

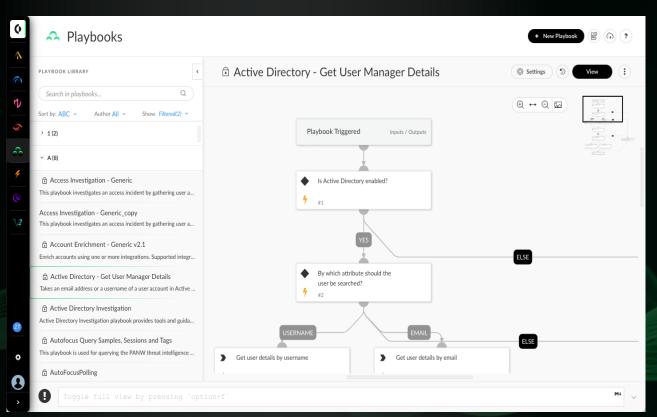




····• response across **all** your security tools



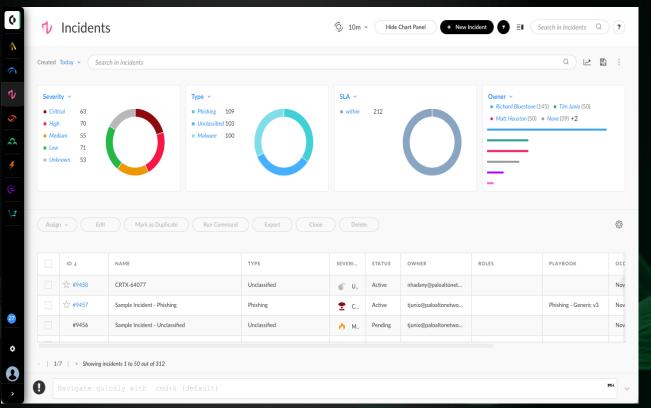
Automate Your Manual Workflows



Eliminate repetitive, time consuming tasks

- You will need integrations & automation packs
- You will leverage security actions for DIY playbooks
- Seek drag & drop style, modular visual playbook editor for code-free editing

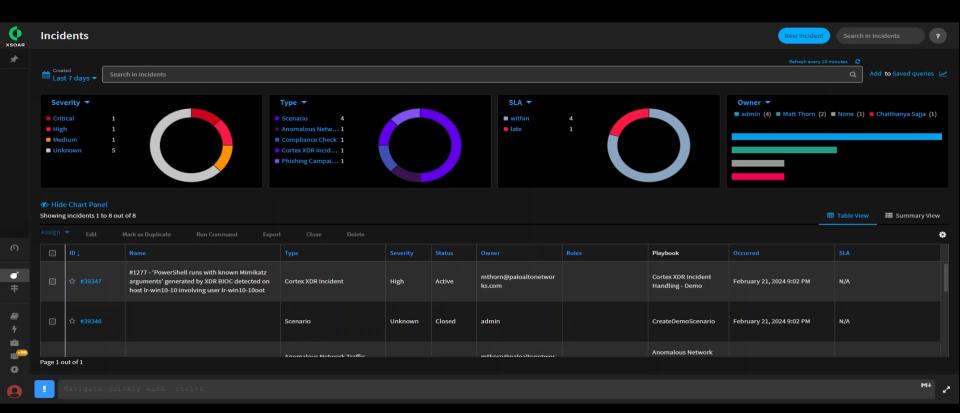
Automations Speed Your Incident Investigations



Utilize real-time collaboration across teams

- A Virtual War Room for incident investigation & collaboration
- Use ChatOps & CLI for on-the-fly investigation
- Auto-documentation for knowledge sharing & audit reporting is essential
- Machine learning to aid analysts response quicker

Automations make Zero Trust viable



Automate ZTNA for your SOC







Common SOC Use Cases



Rapid Breach Response



Phishing Response



Indicator Enrichment



Malware investigation & Response

Extended Security Automation



Cloud Security



Threat Feed Management



Remote User Access



Vulnerability Management

Enterprise Security Automation



Network Security



Security Compliance

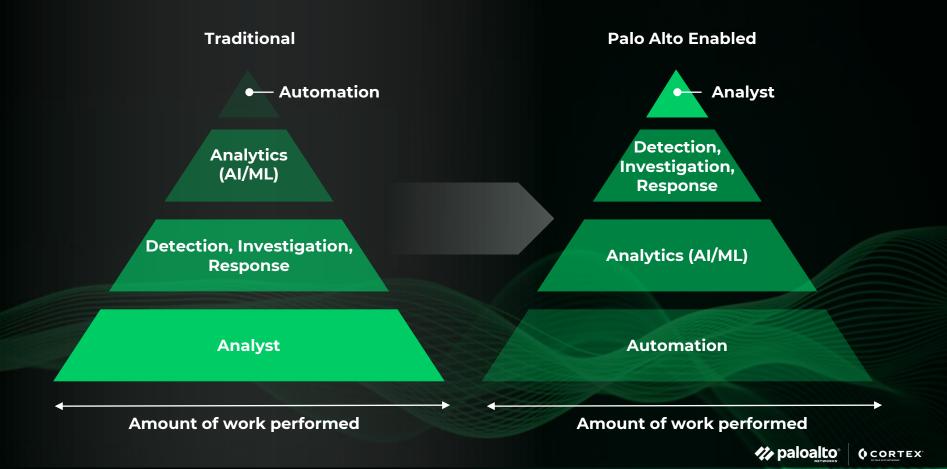


Identity & Password Management



Other Security and IT Use Cases

We Need to Transition to Analyst-Assisted Security Operations



The Proof: We have achieved a 1 min. response time

DAY IN THE LIFE OF THE PALO ALTO NETWORKS SOC

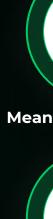
Events 36 B Events

Alerts / Incidents 133 Alerts
7 Incidents

Automated / Manual Analysis

125 Automated 8 Manual

Major Incidents



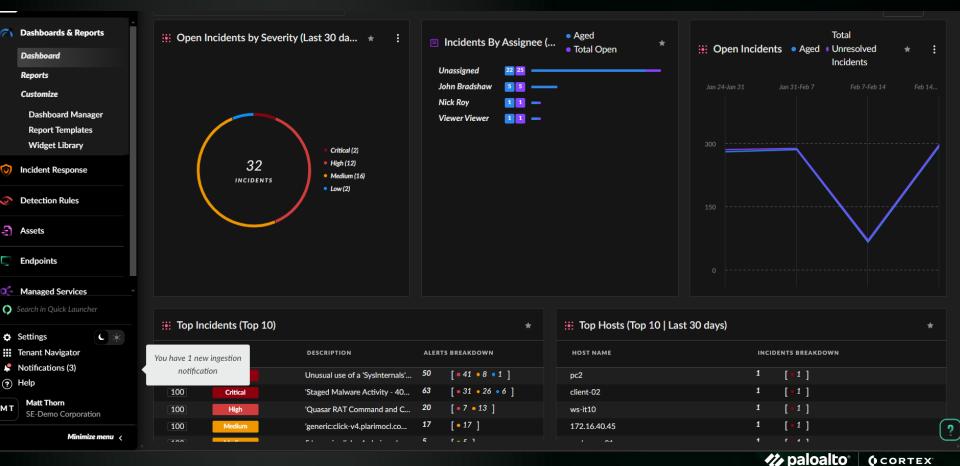
Mean Time to Respond (High priority)

MINUTE



Mean Time to Detect

Because, ultimately, we should not be focusing on these



We really need to focus on



paloalto (CORTEX



Thank you

