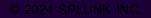
Turning Data into Defense

How Splunk can be leveraged to correlate events, visualize risks, and create a proactive security posture.

Cisco Connect | Dallas, TX December 2024

Chris Perkins, Staff Solutions Architect Splunk, a Cisco Company







- Staff Solutions Architect
- →18/4.5
- → Based in New Mexico (ABQ -> LC)



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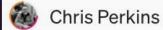
My role includes consulting every state, local and tribal government - as well as all k-20 schools - in the U.S.



OINECTION 2023-2024







Fighting Fraud in the Public Sector with Splunk Data Analytics...

Step right up to the most unnerving spectacle of digital deceit—'The Carnival of Identity...

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Chris Perkins

SHIFT: The Future of Fraud Resilience

A New Era in Fraud Management for Government Agencies

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Navigating the Cyber Terrain — TL;DR: As fraud threats continue to increase in scale and sophistication, state governments face the urge...

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Why The Identity Layer Is a Critical Battleground For Anti-Fraud

Part II of The Digital Battleground: Uniting Cybersecurity and Fraud Prevention in State Agencies — In order to get ahead of the problems,...

Dec 4, 2023

The Future State: Fortifying Security Through Cyber-Fraud Convergence

Part III of The Digital Battleground: Uniting Cybersecurity and Fraud Prevention in State Agencies — As the cyber terrain broadens and...

https://medium.com/@chrisperkins505

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Part III

Part II



ODAM, a Revolution! Reinventing the Cybersecurity Workforce in...

In this article, we're going to take a deep dive into two intertwined challenges that public...

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Unraveling Zero Trust: An Airport Security Analogy + ODAM

This blog post aims to present a comprehensive examination of the intricate...

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Chris Perkins

Discovering the True Worth of Data: Unlocking Value with ODAM

In today's data-driven world, discerning the true value of data can be a challenging ...

8 min read · Apr 14

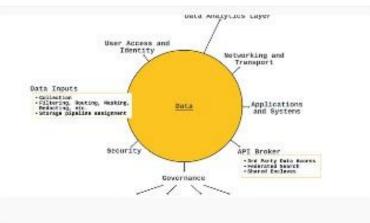


Chris Perkins

ODAM: a Digital Resilience Strategy

Operationalizing Data Analytics Methodology (ODAM) is a game-changer for organization...

3 min read · Apr 5

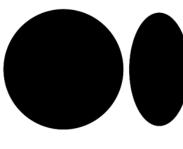


Chris Perkins

The Future State: Data in SLED

In January of 2023, I published ODAM (Operationalizing Data Analytics...

11 min read · Apr 4



2023





Chris Perkins

Mapping the Cyber Terrain: The Intersection of Cartography and...

In this exploration, we venture into the intersections of cartography and...

13 min read · 15 hours ago

ONMedium

Home 0-Foreword 1-Data is Beautiful 2-Data Strategy Template 3-Using ODAM to Setup Your ACE 4-Getting Tactical Conclusion About the Author



Empowering Digital Resilience Through Operationalizing Data Analytics Methodology

ODAM, or Operationalizing Data Analytics Methodology, is a comprehensive approach that helps organizations build a data-driven culture and achieve measurable business outcomes. It provides a framework for defining, planning, executing, and measuring data analytics initiatives, ensuring that they align with strategic goals and maximize the value of data assets. With ODAM, organizations can mature and operationalize their data analytics capabilities, driving business value and supporting decision-making across departments and use cases. By following best practices and leveraging industry-leading tools and technologies, organizations can accelerate progress and lead the way in data-driven innovation.

The Work

ODAM

This work is an experiment in writing that combines research, opinion, personal experiences, poetry, storytelling, history, hypotheticals, and interviews. The goal is to bring together a variety of ideas and present them in a way that is helpful and actionable to readers in their daily lives. Throughout my career, I have worked in customer service roles and learned that providing exceptional service is both memorable for customers and cost-effective for businesses. With this work, I hope to not only provide excellent customer service, but also to raise the bar for what customers should expect from vendors.

This work focuses on the intersection of data and community, and aims to help organizations of all kinds build an Analytics Center of Excellence (ACE) and to operationalize an organization's data to drive value from data.

My passion for this work comes from a desire to help customers be successful with technology, as well as my interest in how people and machines interact and connect. I am fascinated by the ways in which different groups of people and devices communicate and work together, and the intersection between humans and machines.

In this writing, we will explore how organizations of all sizes can remove the barriers between data and action while building out their own <u>ACE</u>, using Splunk as a data analytics and visualization platform. We will delve into topics such as aligning expectations, planning, and implementation, with the goal of helping users access the right data insights at the right time. By taking a practical, in-the-moment approach to data analytics, organizations can empower their users to make the most of their data.



odam.community

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splunk > turn data into doing

Turning Data into Defense: Leveraging Analytics with Splunk



Data & Analytics

Fraud & Cybersecurity

Agenda

Cisco Connect - Dallas 🖈 🗈 🗠											
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		Identity Verification	Network Security	Application Security	Transaction Monitoring	Data Analysis & Anomaly Detection	User Beha Analysis
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The Layers of Complexity

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avior	Compliance & Regulatory	Information Sharing & Collaboration	Incident Response, Prosecution & Recovery



"Our dilemma is that we hate change and love it at the same time; what we really want is for things to remain the same but get better."

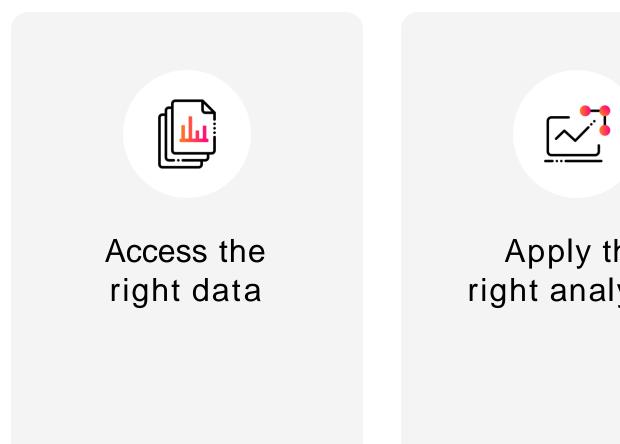
Sydney J. Harris Journalist and Author

Splunk Overview



Our product vision

enterprise's entire digital footprint, reliability, and innovation velocity



To provide visibility and insights across an powering actions that improve security,

Apply the right analytics



Accelerate the right actions

The SOC of the future is a resilient SOC

• Complete visibility

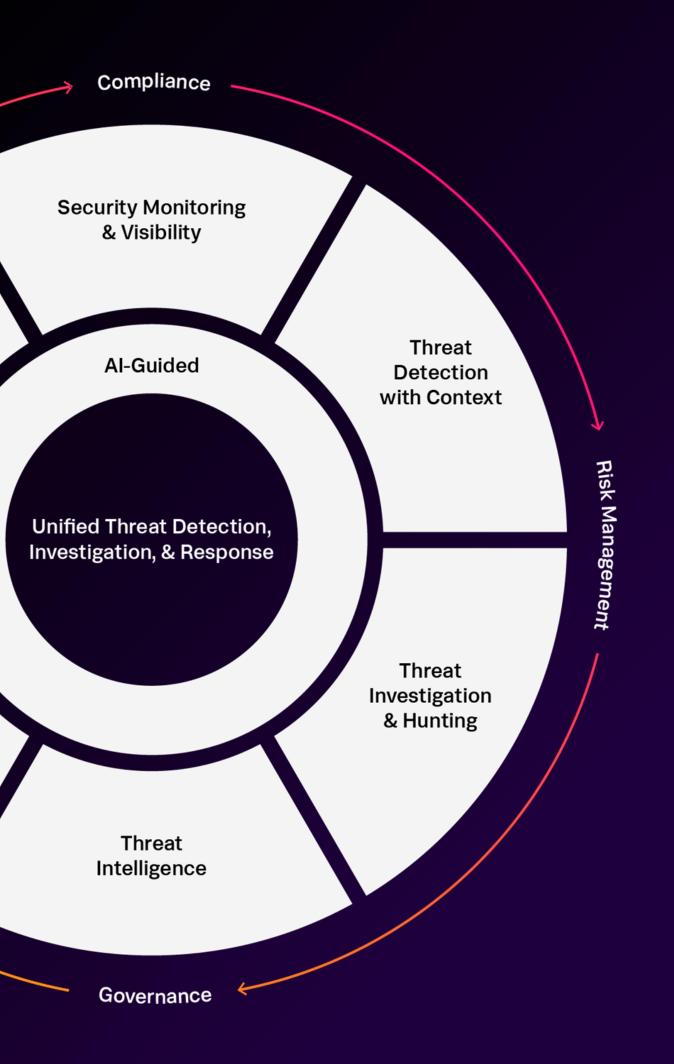
• Clear path to resolution

xt and collaboration

ovement prevention

Detection & Automation Engineering Orchestrated & Automated Response

Security Metrics



Why Splunk?



Splunk is a recognized leader in cybersecurity

An unparalleled foundation to power the SOC of the future

Gartner

A Ten-Time Leader

2024 Gartner® Magic Quadrant™ for SIEM

Ranked #1 in all three Use Cases

2024 Gartner® Critical Capabilities for SIEM

Forrester®

Leader

Forrester Wave[™]: Security Analytics Platforms, Q4 2022

€IDC

Leader

IDC MarketScape: Worldwide SIEM 2023 Vendor Assessment

#1 in Market Share

IDC Worldwide SIEM Market Share Report

Trusted by leading organizations











R TrustRadius

5 awards for SIEM and SOAR

l PeerSpot

Leader Award SIEM and SOAR

Kuppingercole

A leader in SOAR

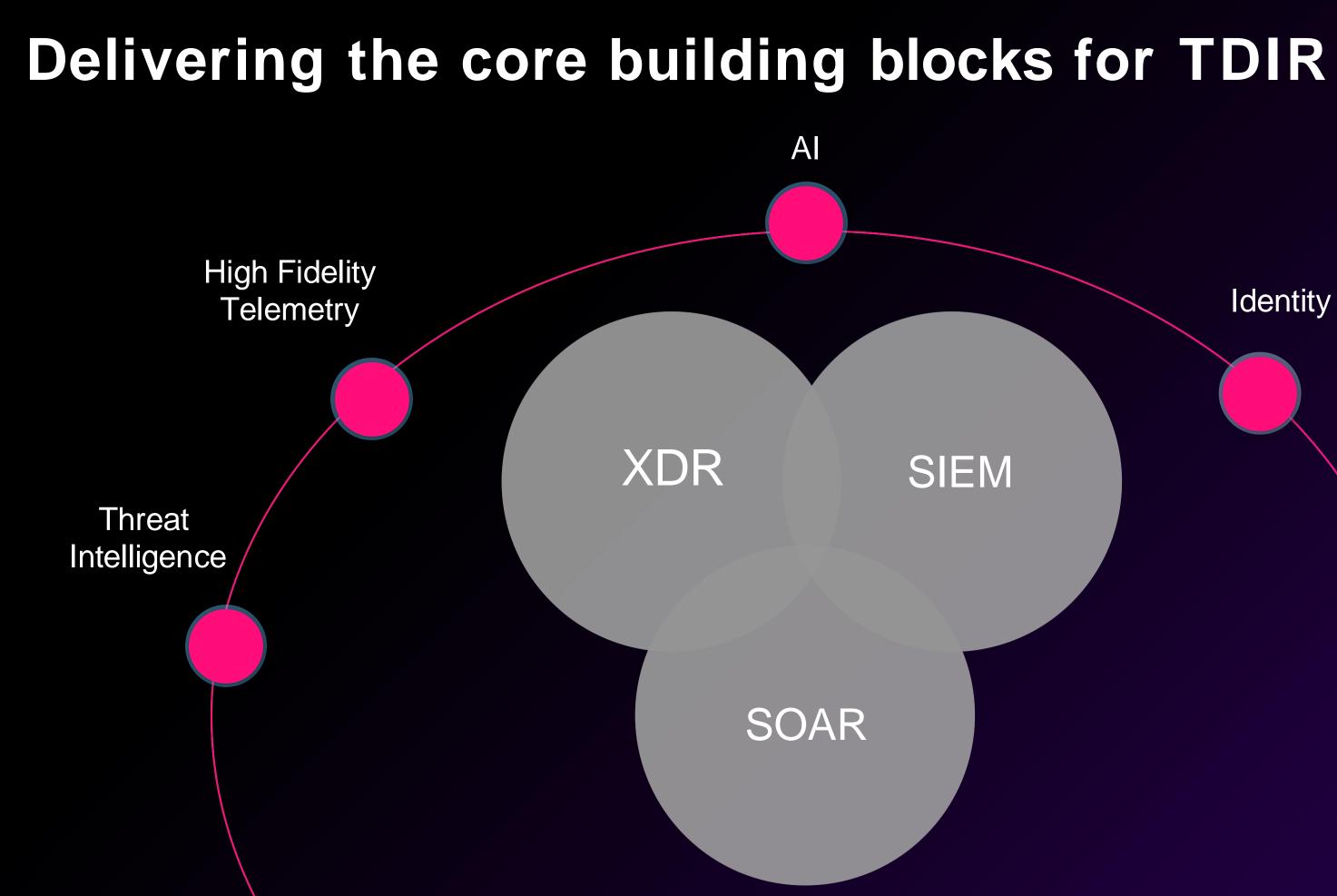
Adding breadth and depth together with Cisco Game-changing security across your entire digital footprint

Secure Data Center Networking **Enhance multi-cloud protection** for AI-ready data centers.

Accelerate Zero Trust Network Access **Enable Secure Access and Zero Trust** for a future-proof workplace.

Power Security Operations Unify threat detection, investigation and response for digital resilience.

Accelerated by AI



Identity

Unified Management and Reporting

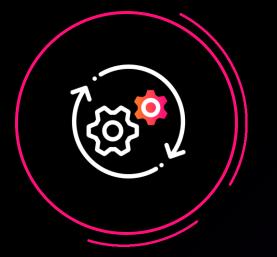
Guided by core roadmap investment themes

Delivering the critical innovation for the SOC of the future

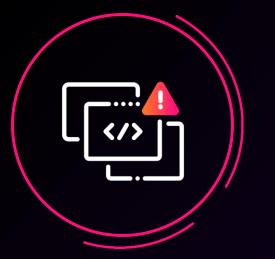
Integrated workflows

World class detection

Data management



Simplify the SOC experience through integrated automation and AI.



World class detections powered by purposebuilt threat analytics.



Flexibility to optimize costs and simplify data management.

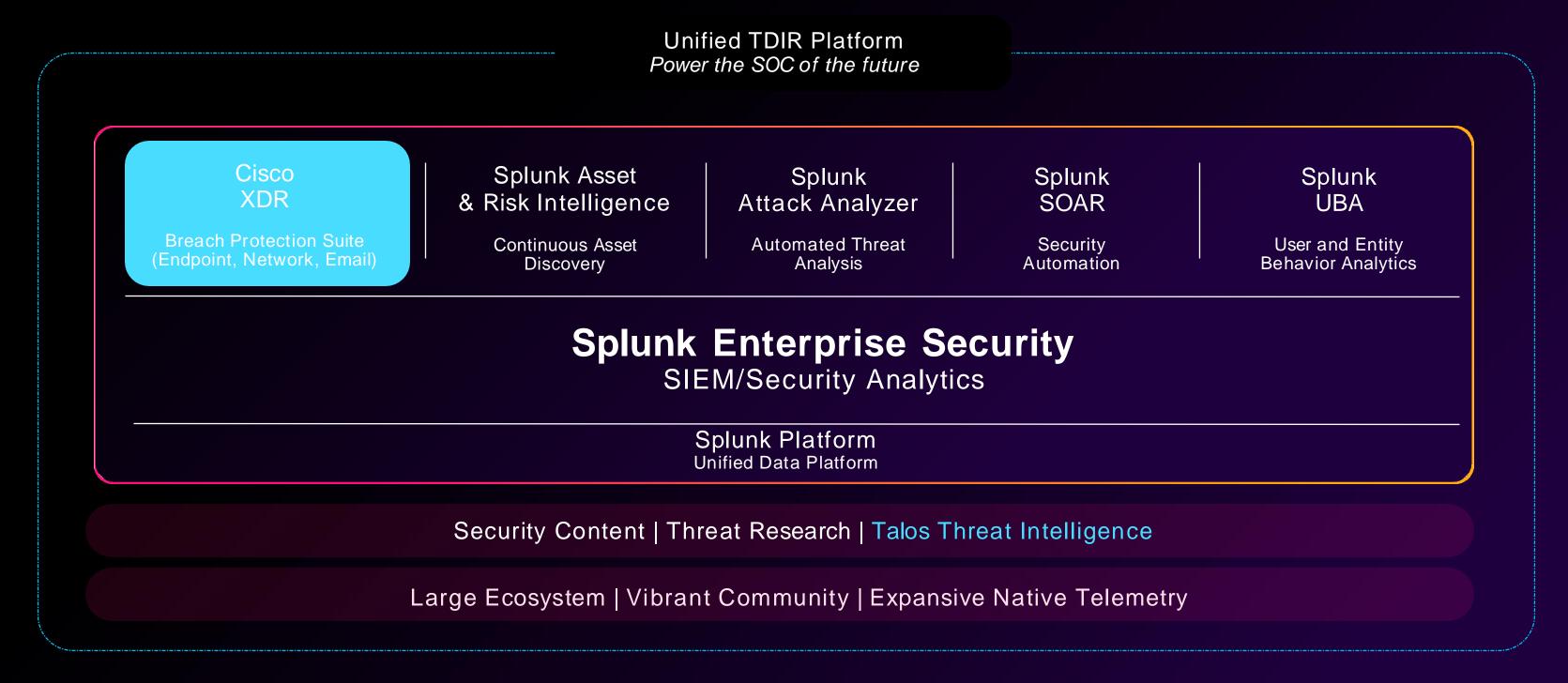
Flexible platform



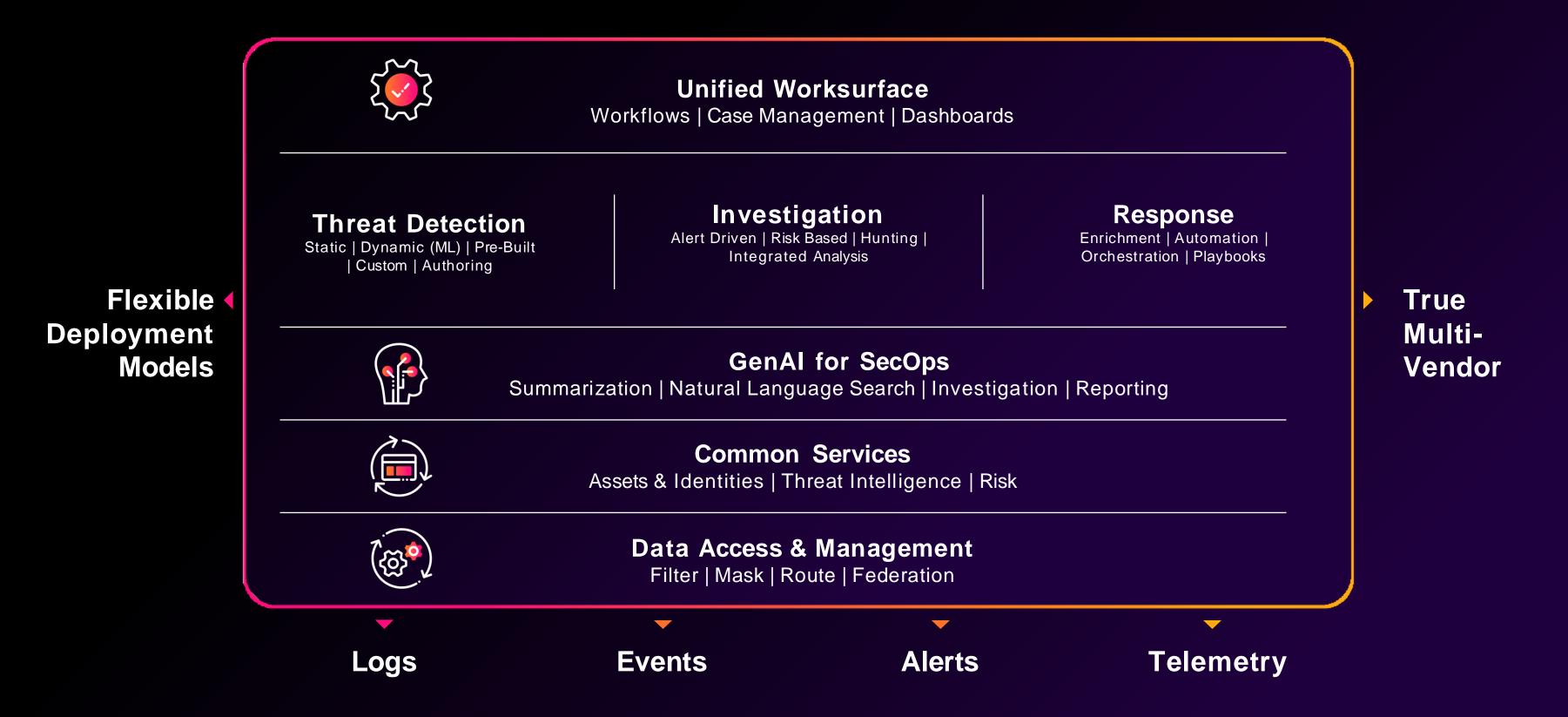
Enterprise-scale deployment flexibility across hybrid, cloud and on-premises.

A comprehensive security portfolio powering Unified TDIR

Splunk + Cisco



Delivering the essential elements of a Unified TDIR Platform



Enabling critical capabilities for the SOC

Data Management & Federation

Effectively manage complex data management needs. Seamlessly access data stored across different data stores for search and analytics.

Transform Threat Detection

Support a range of detection methodologies. Effectively utilize detection as a code.

Reduce Risk Exposure

Unleash continuous asset discovery to enhance compliance posture and close gaps in security controls.

Power the SOC of the future

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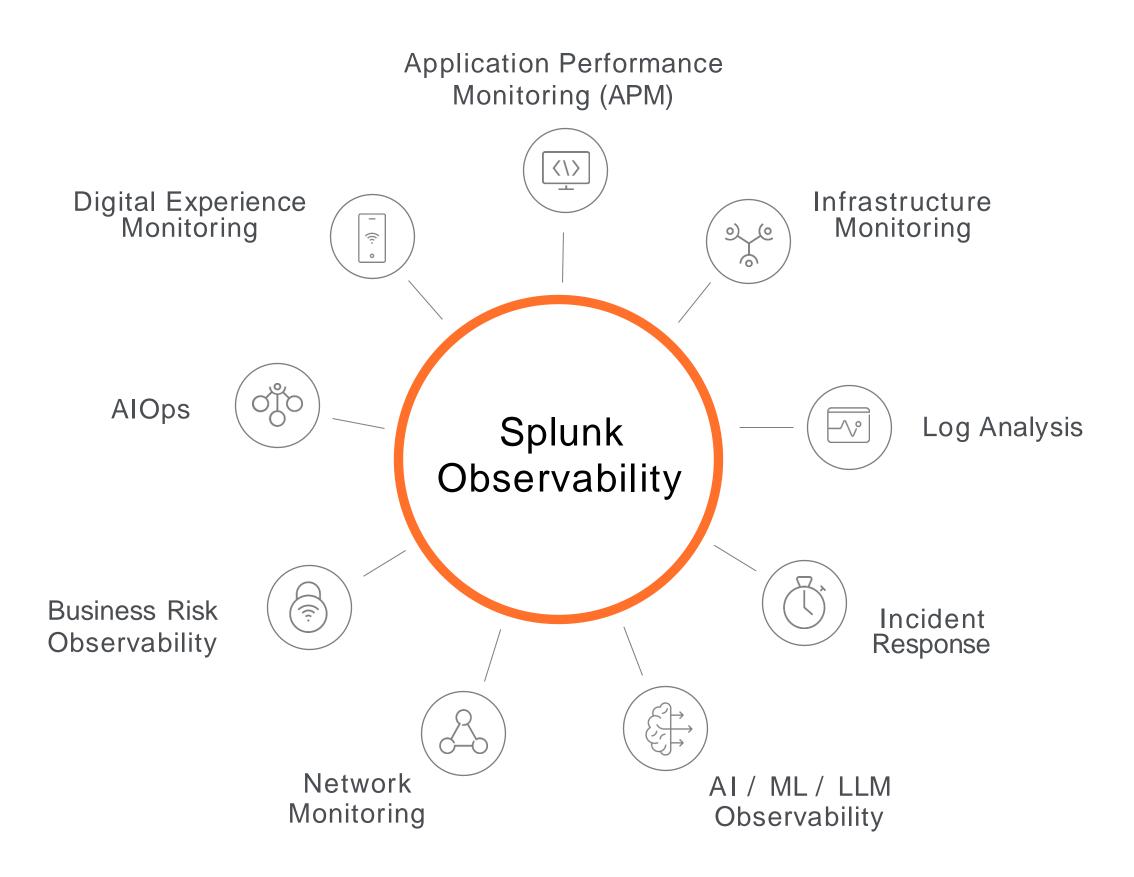
AI for Enhanced Security Operations

Augment with AI to help analysts with routine yet errorprone tasks such as writing investigative summaries. Unified TDIR with Automated Workflows

Coordinate and collaborate across the TDIR lifecycle. Automate workflows across TDIR.



Splunk Observability portfolio



Real-Time Insights

AI Powered

Enterprise Grade

Open Telemetry Native

Extensible

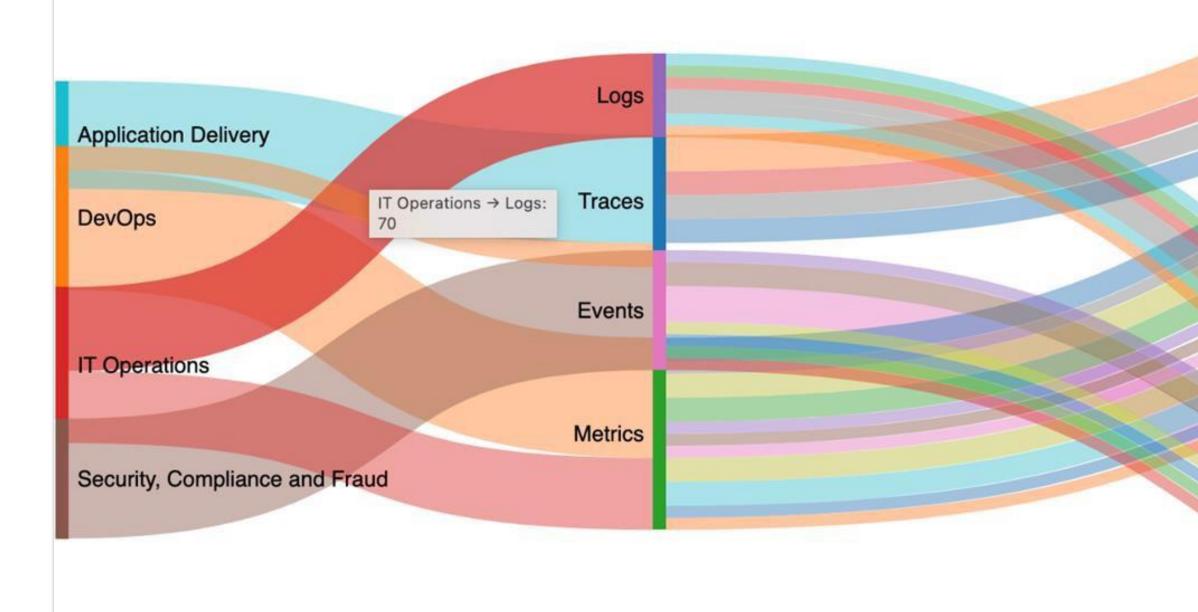
Cross MELT

Business Context

Data



Common, Multi-Use Data



Microservices

User Experience

Service Dependencies

Database Performance

Message Queues

Operating Systems

Custom Metrics

RED Metrics Serverless Functions CI/CD

Containers / Kubernetes

Networking

Load Balancers Caches

Syslog

Configuration Files Filesystem Audit Logs Web Access Logs Web Proxy Logs

Wire Data

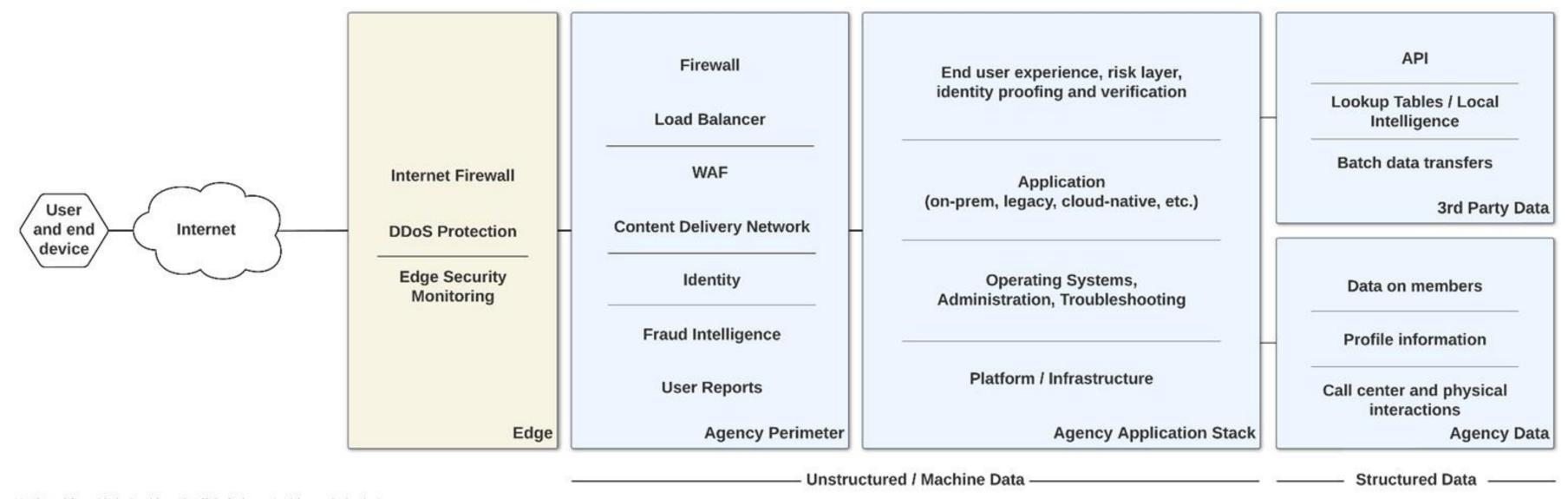
Business Process Logs Management and Logging APIs

Notable Events

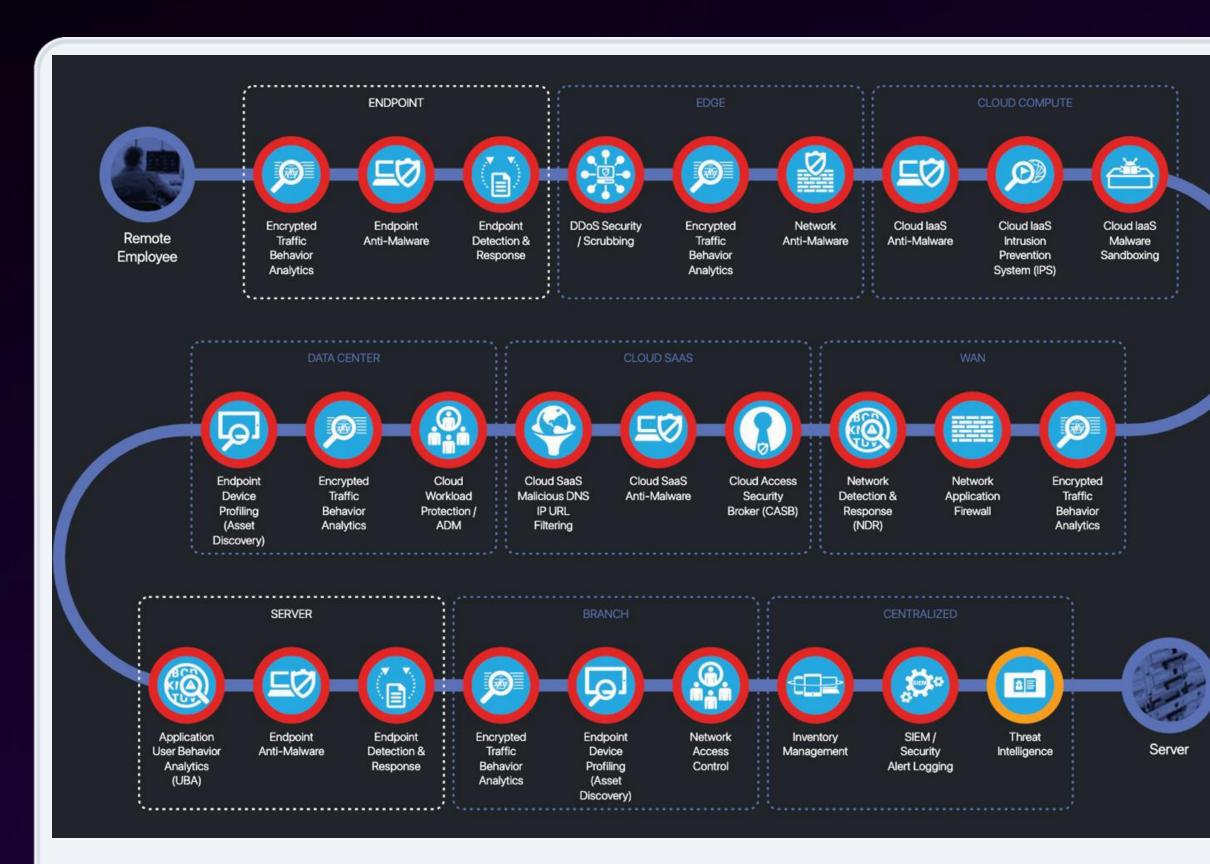
Alerts

Windows Events Packet / Flow Data Call Detail Records Clickstream Data

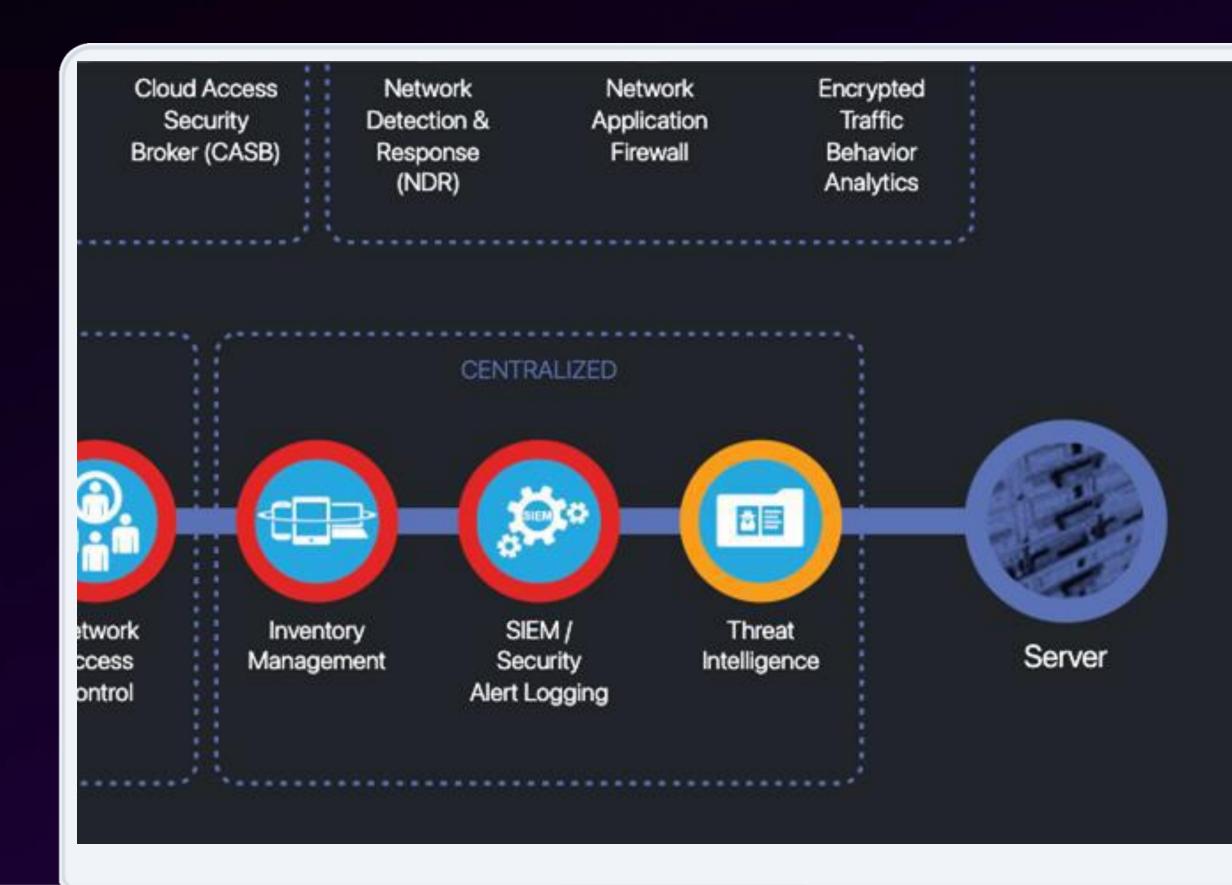


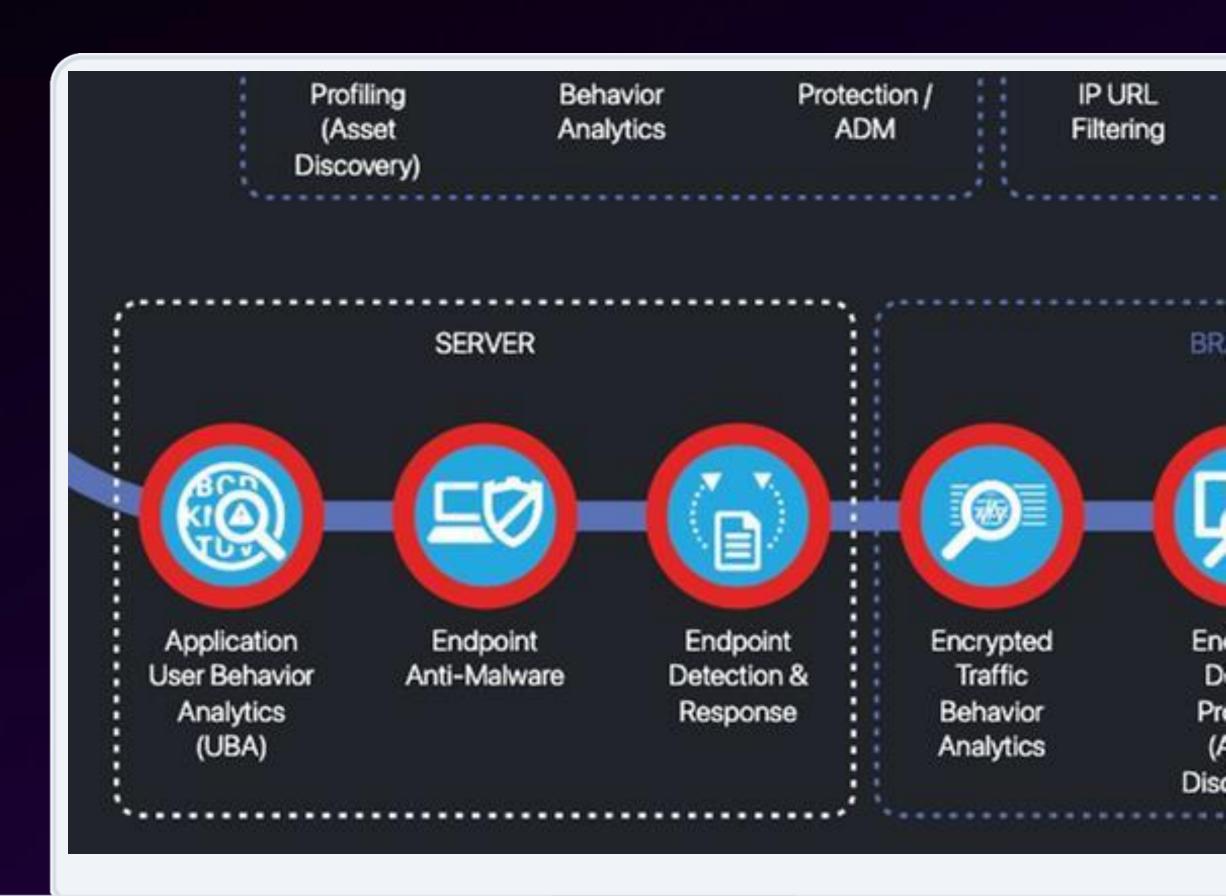


Updated by: Chris Perkins, Staff Solutions Architect, Splunk, Inc.







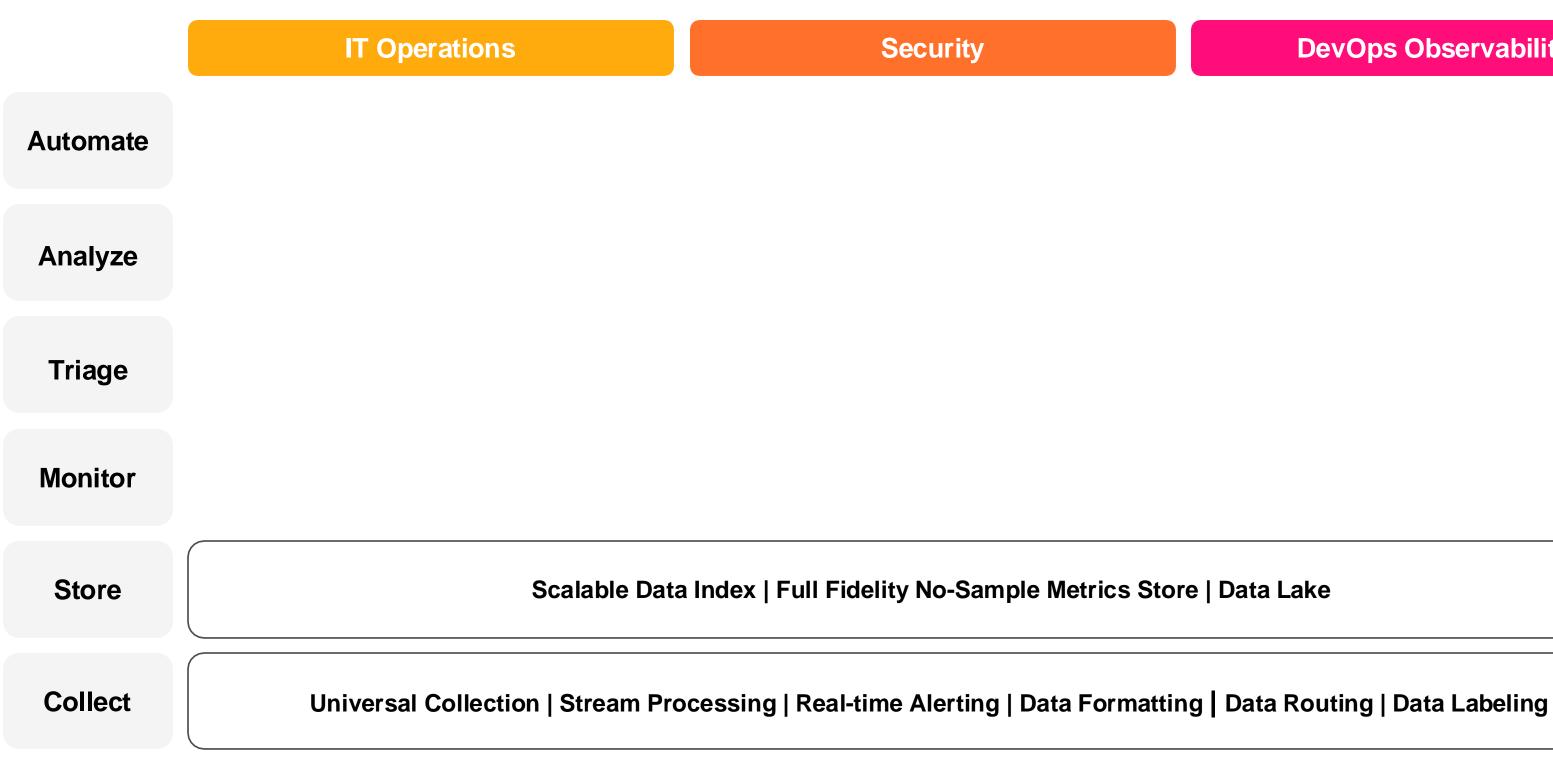


Use Cases, Capabilities and Tools



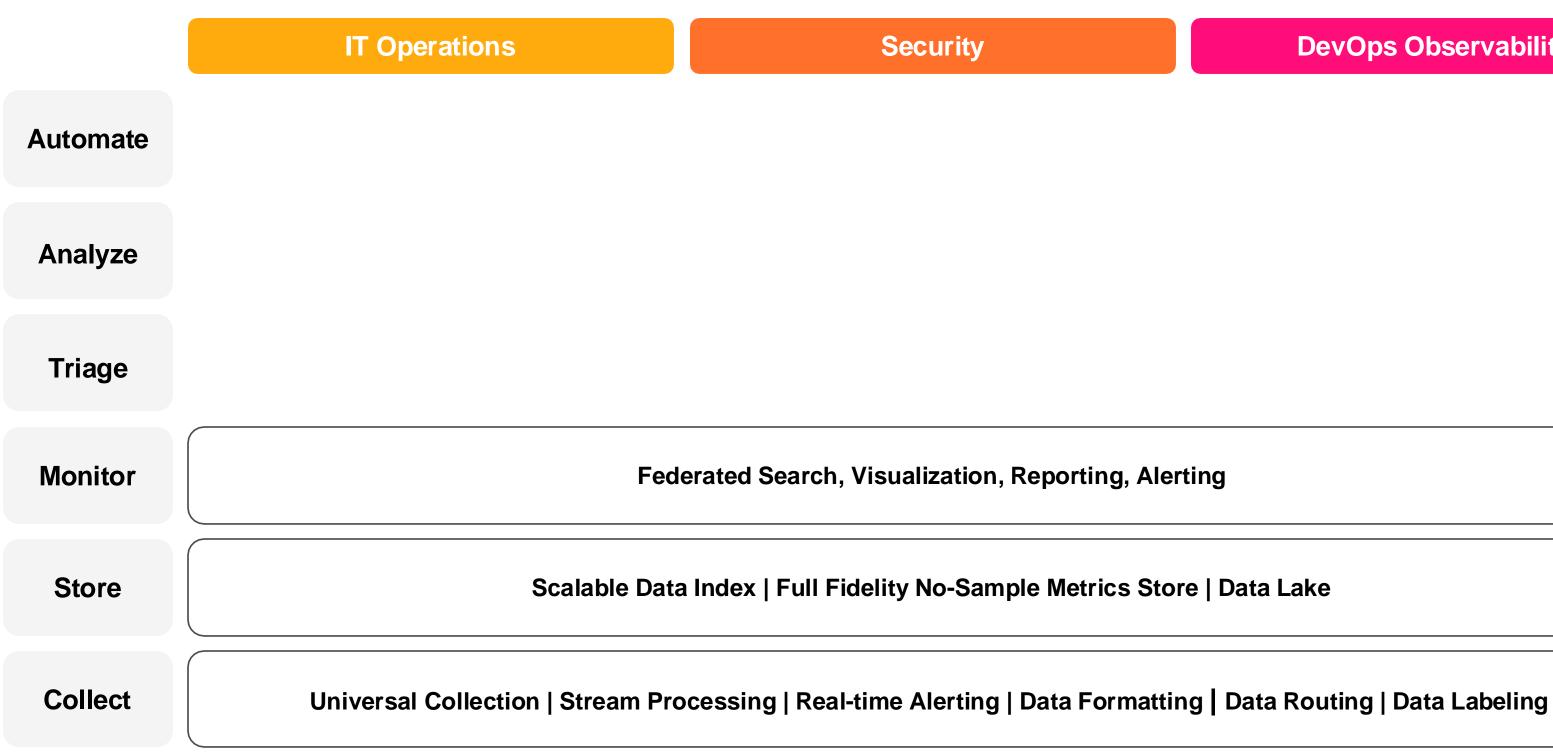
DevOps Observability

Use Cases, Capabilities and Tools



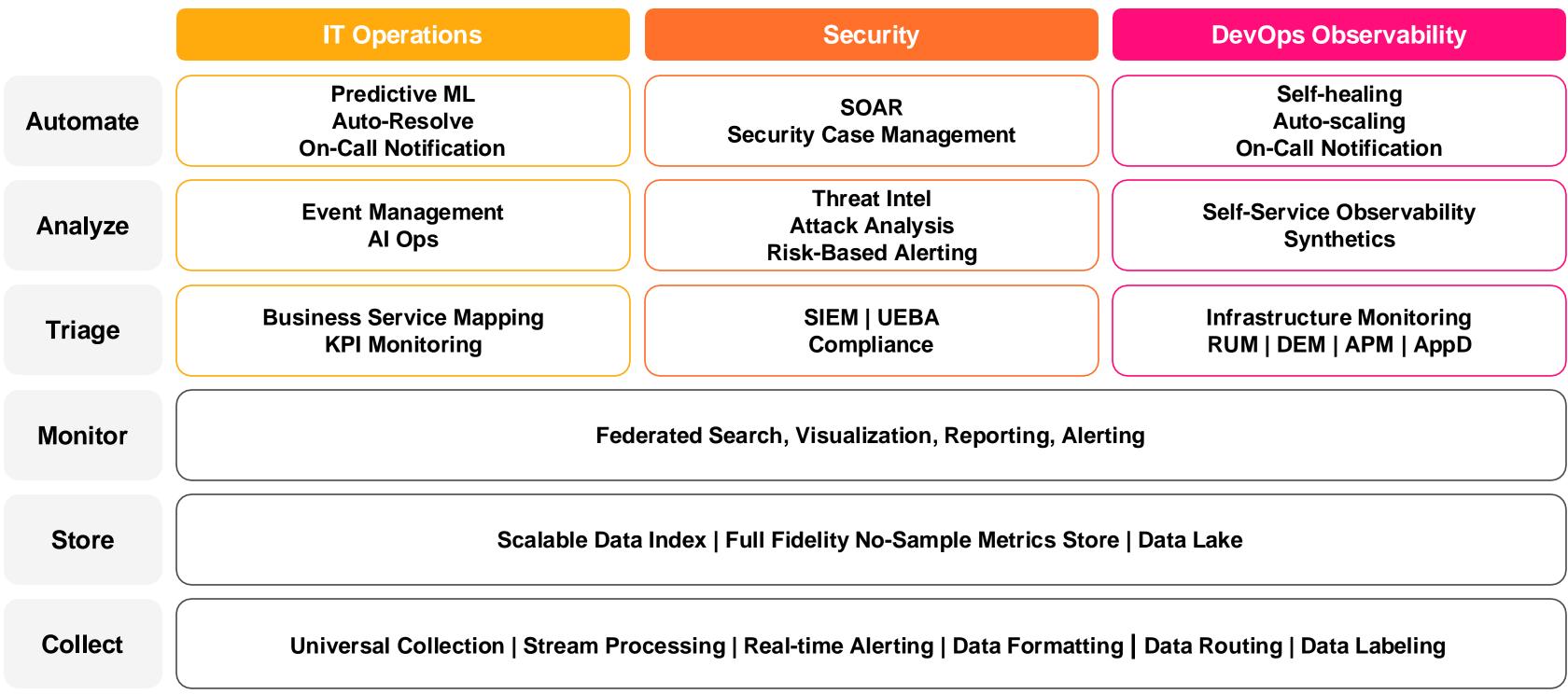
DevOps Observability

Use Cases, Capabilities and Tools



DevOps Observability

Use Cases, Capabilities and Tools



Data Literacy



"The ability to take data - to be able to understand it, to process it, to extract value from it, to visualize it, to communicate it --that's going to be a hugely important skill in the next decades." Hal Varian Chief Economist at Google

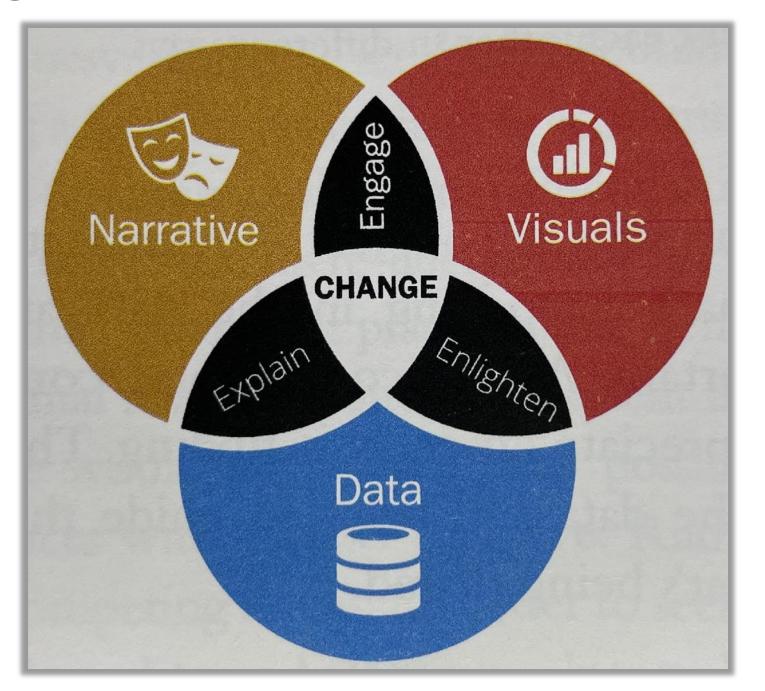


Data Literacy

To read, work with, analyze and communicate with data through storytelling, context and applicability.

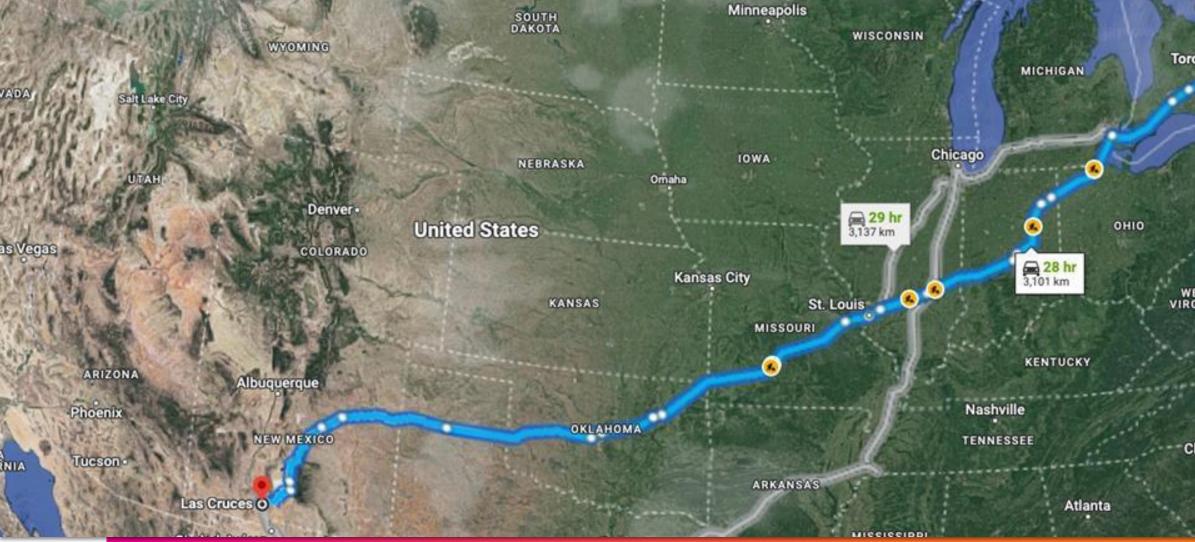
Effective Data Stories Can Drive Change When you combine the right data with the right narrative and visuals, you have a data

story that can drive change.



Effective Data Storytelling, Brent Dykes

Splunk > turn data into doing



A Data Expedition Charting our course through the three planes of data.

Toronto NEW YORK MASSACHUSETTS TCT RI NEW YORK DENNSYLVANIA MARYLAND DE Washington VIRGINIA Charlotte SOUTH CROUTHA

splunk>

Three Data Planes

Unfolding the layers of the universe (of data)





Signals

A foundation of raw data.

Semantics

The transformation into meaningful insights.



Logic

Generation of actionable insights.

Three Data Planes

Unfolding the layers of the universe (of data)



- Machine data
- Metrics, events, logs, traces (MELT)



- Aggregated and cleaned data
- Mapped and compliant (CIM)
- Objects fully mapped to business concepts

- Messy
- Not ready for analytics or ML, AI



- Derived from the semantic layer
- Metrics or facts

	Descriptive Analytics What is happening?	Diagnostic Analytics Why is it happening?	Predictive Analytics What could happen?	Prescriptive Analytics What should we do?
Signals Layer (Data Transmission)	Detecting unusual data movements or spikes in transaction activities.	Pinpointing anomalies in data transmissions that indicate fraud.	Utilizing past data signals to predict future fraud attempts.	Recommending immediate actions based on real-time data signals.
Semantics Layer (Data Interpretation)	Identifying the nature of the data, categorizing it as normal or potential fraud.	Analyzing the root cause of these anomalies – identifying specific fraud tactics.	Interpreting trends and patterns to forecast potential fraud activities.	Suggesting specific responses based on the data interpretation.
Logic Layer (Data Analysis and Decision-Making)	Summarizing current fraud trends based on historical data and recent activities.	Interpreting the reasons behind detected fraud patterns, using data correlations.	Developing strategies for preventing anticipated fraud scenarios.	Formulating comprehensive fraud prevention strategies based on data analysis.

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"A wealth of information creates a poverty of attention."

Herbert A. Simon Economist and Political Scientist





Frauc Analytics





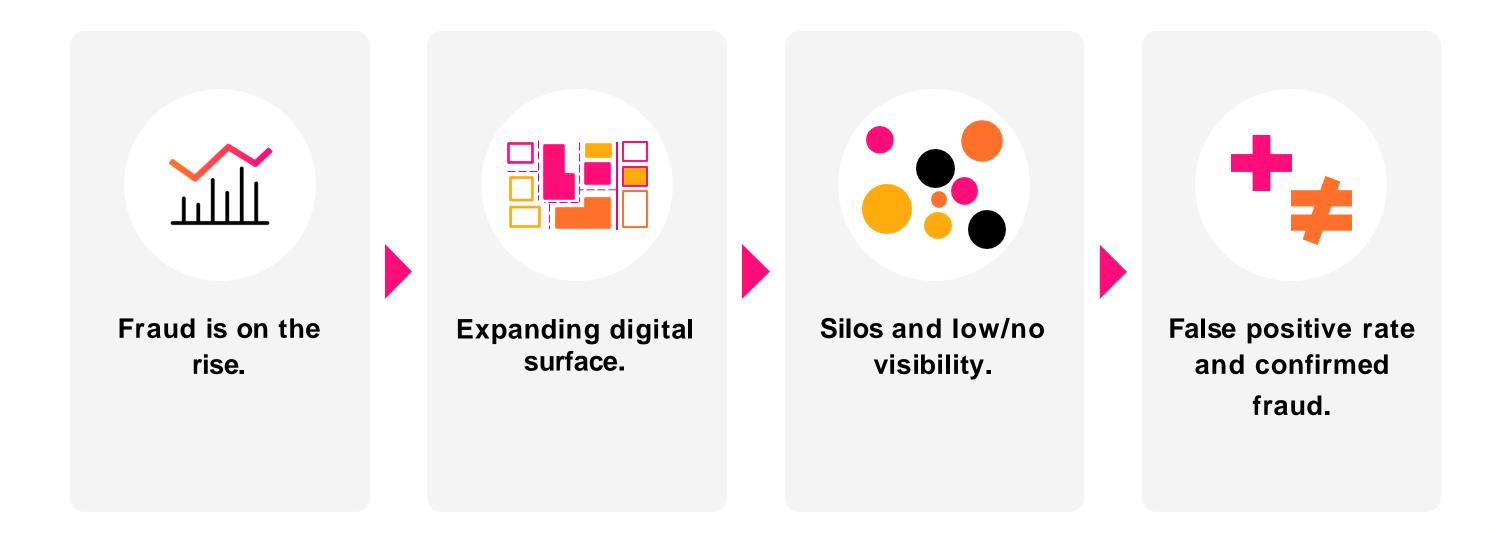
"Both improper payments and fraud result in significant financial and nonfinancial impacts to the integrity of programs. They erode public trust in government, waste taxpayer dollars, and hinder agencies' efforts to execute their missions and program objectives effectively and efficiently."

U.S. Government Accountability Office

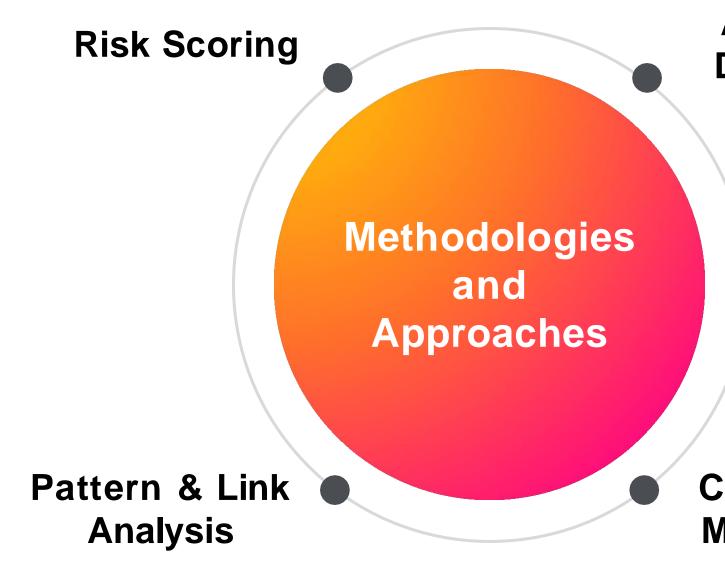
Improper Payments and Fraud: How They are Related but Different

Challenges in Detecting Fraud

The size and complexity of the landscape is increasing



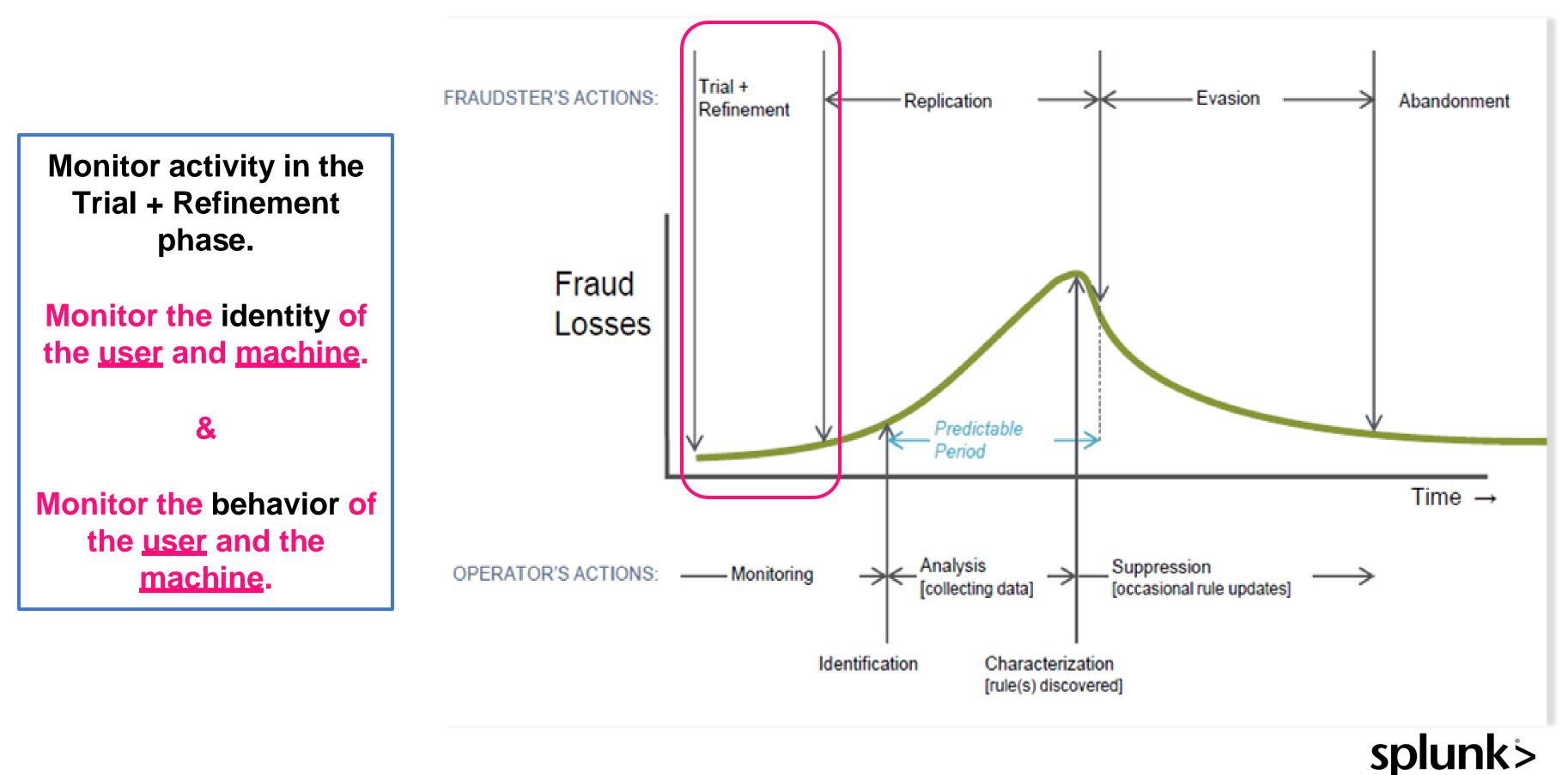
Fraud Use Case



Anomaly Detection



Centralized access to data such that monitoring, detection, investigations, reporting, and integration of learned insights are made actionable.





Fraud Actor Group	Primary Motivations	Typical Tactics	Behavior Patterns	Scale of Operations	Detection Difficulty	Impact
Individual Fraud Actors	Financial hardship / desperation, opportunity	Simple deception, basic identity theft	Impulsive, opportunistic, Iow/no OpSec	Small-scale, isolated incidents	Relatively easier to detect	Individually low, collectively significant
Opportunists	Exploiting weaknesses, financial need	Capitalizing on chaotic situations, identity theft, social engineering	Situational, reactionary, organized processes (patternistic)	Varies, often situation- specific	Varies from easy to moderately difficult to detect	Significant during vulnerable times, creates stress on the system
Organized Crime	Financial profit, funding illegal activities	Sophisticated schemes, money laundering, mule networks, bots	Highly organized, methodical, low n slow	Large-scale, international	High difficulty	Potentially massive, disruptive
Nation-State Actors	Financial profit, geopolitical influence, intelligence gathering	Advanced cyber operations, espionage	Strategic, long-term focus	Extensive, state-backed	Very high difficulty	Far-reaching, affects national security

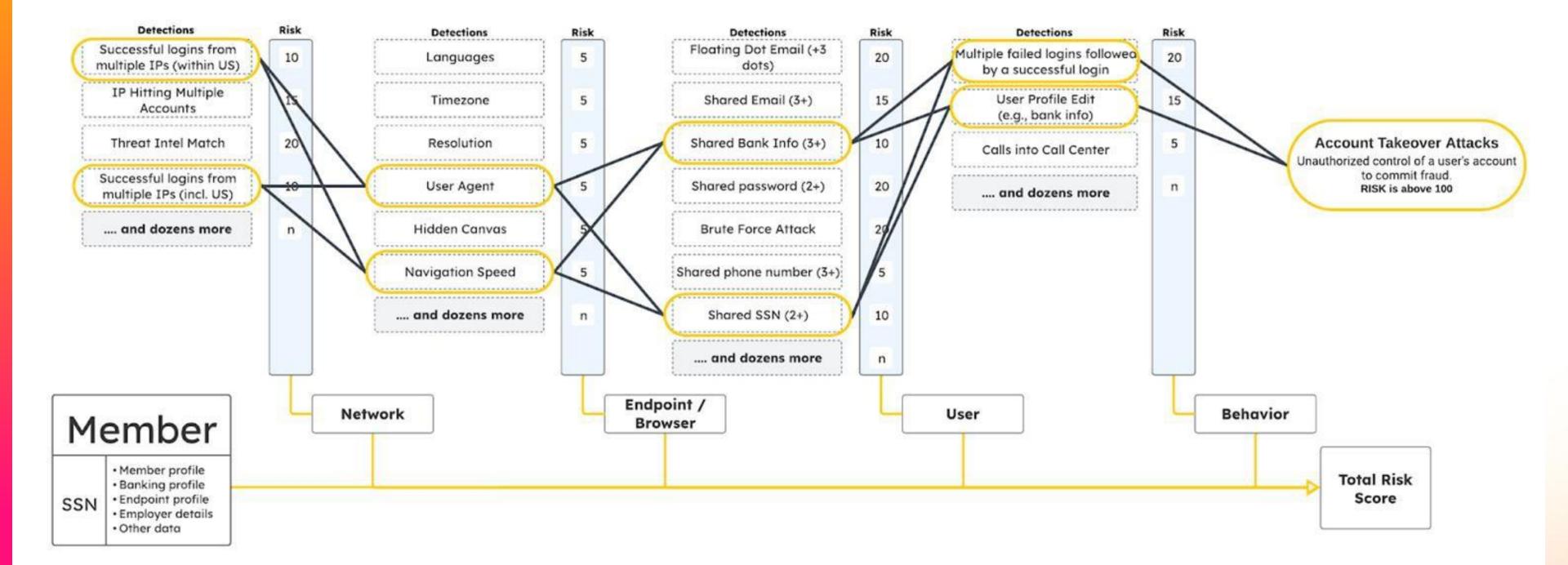
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Opportunists	Exploiting weaknesses, financial need	Capitalizing on chaotic situations, identity theft, social engineering	Situational, reactionary, organized processes (patternistic)	Varies, often situation- specific	Varies from easy to moderately difficult to detect	Significant during vulnerable times, creates stress on the system
Organized Crime	Financial profit, funding illegal activities	Sophisticated schemes, money laundering, mule networks, bots	Highly organized, methodical, low n slow	Large-scale, international	High difficulty	Potentially massive, disruptive
Nation-State Actors	Financial profit, geopolitical influence, intelligence gathering	Advanced cyber operations, espionage	Strategic, long-term focus	Extensive, state-backed	Very high difficulty	Far-reaching, affects national security

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Fraud Scheme / Use Cases	Description	High Fidelity Detections (Sharpshooters)	Medium Fidelity Detections (Strategists)	Low Fidelity Detections (Scouts)	General Detections (Observers)	Data Needed
Reconnaissance	Early-stage information gathering and system testing.	Alerts indicative of reconn.	Alerts may require additional investigation.	Indicators of increased risk for future activity.	Baseline awareness and trend detection.	Log files, failed login attempts, unusual query patters, IP address monitoring.
Application Fraud	Focus on application integrity and identity verification.	Strong likelihood of fraud; actionable.	May prompt further investigation.	Potential risks that need further monitoring.	Ongoing vigilance against application fraud.	Application logs, verification attempts, document scans, identity proofing mechanisms.
Benefit Trafficking	Prevention and investigation of benefits misuse.	Clear case prompting immediate action.	Require additional investigation or evidence.	Indicate emerging threats or systemic vulnerabilities.	Maintains the integrity of the benefits system.	Transaction histories, beneficiary data, program eligibility criteria, usage patterns.
Account Takeover (ATO)	Identifying unauthorized account access and activity.	Immediate action required.	Trigger additional verification steps.	Adjust risk scores and require observation.	Baseline of normal account activity.	Account access logs, transaction records, user behavior profiles, authentication challenges.

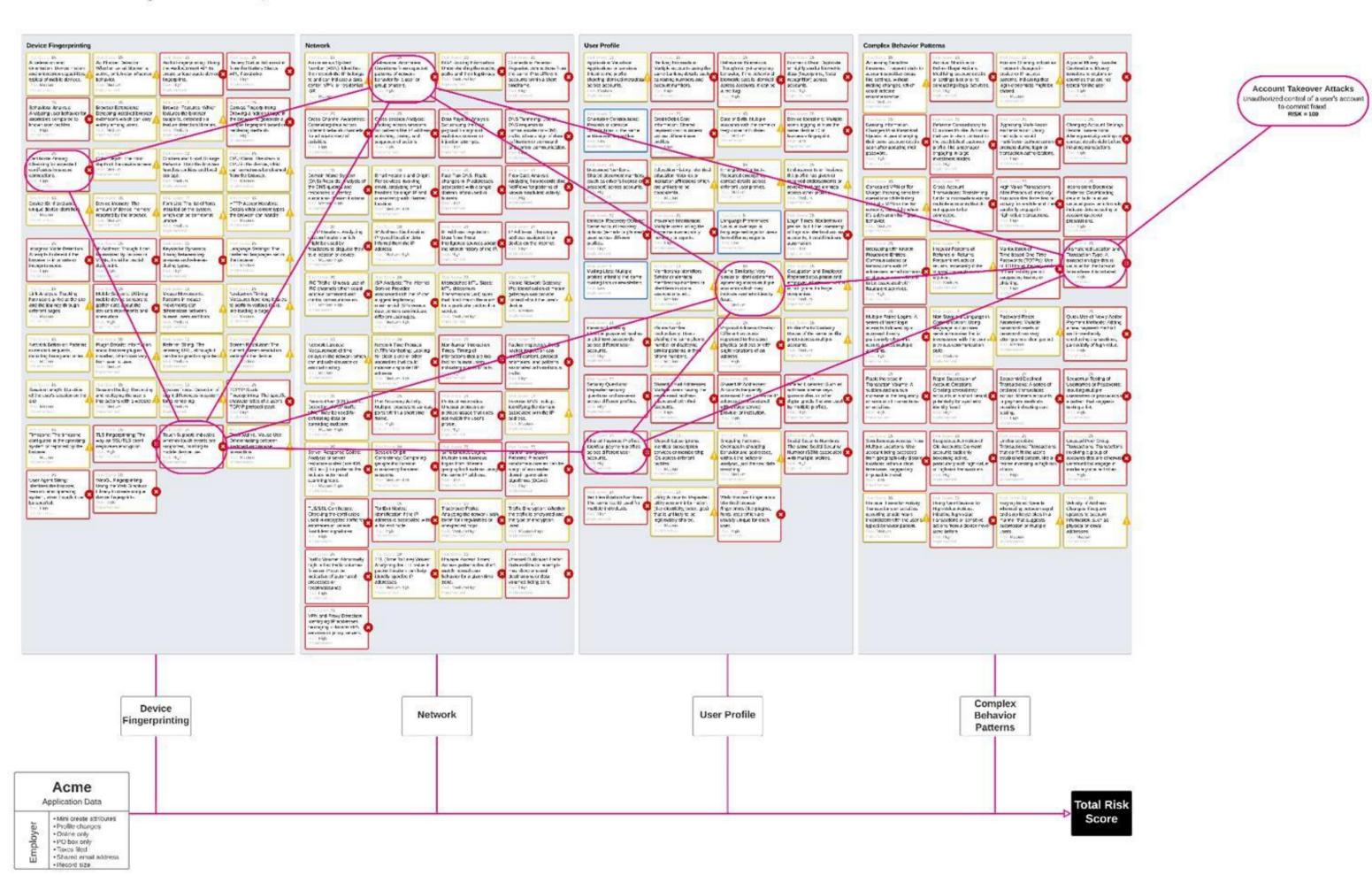
Fraud Attack: ATO (account takeover)





Updated: November 6th, 2023 Updated Reviewed by Chris Perkins (Sclunk)

Fraud detection mechanisms using metadata and data analytics.

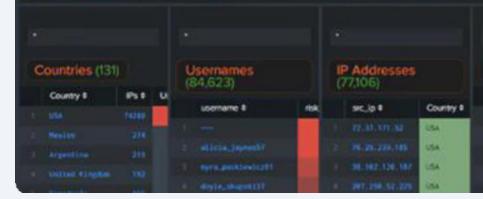


Splunk App for **Fraud Analytics**

497.	ע 95%

Interactive investigation: User accounts and risk analysis

Total events: 1726.574 [Selected time range: 2021-04-23 00:00:00 - 2021-04-23 2158:00]





12:00 AM 1000 PM 800 PM 10:00 PM

Screen Info (4.)	75)	Session ID (98,426)	User Agent (13,821)	Risk Level (6)		Actions (16)	
screen #	Users #	station_id #	http_user_egent #	66.8	Users #	action 0	
	2323.7				85487		
	4002				262		
	4822				784		
	3598				414		

Fraud Incident Review

In Depth Incident Analysis

- Summarizes all triggered alerts (notable events) with key actionable data points
- Shortcuts directly to relevant investigation dashboards are included within each alert.
- Preview risk contributors for each alert to improve efficiency of investigation
- Better organize investigations
- Track fraud over time
- Facilitate discovery of correlation and causation

Select.			
		Select	
	board Clear Sea	rch Filters	Notable events:
i	_time ¢		risk_object \$

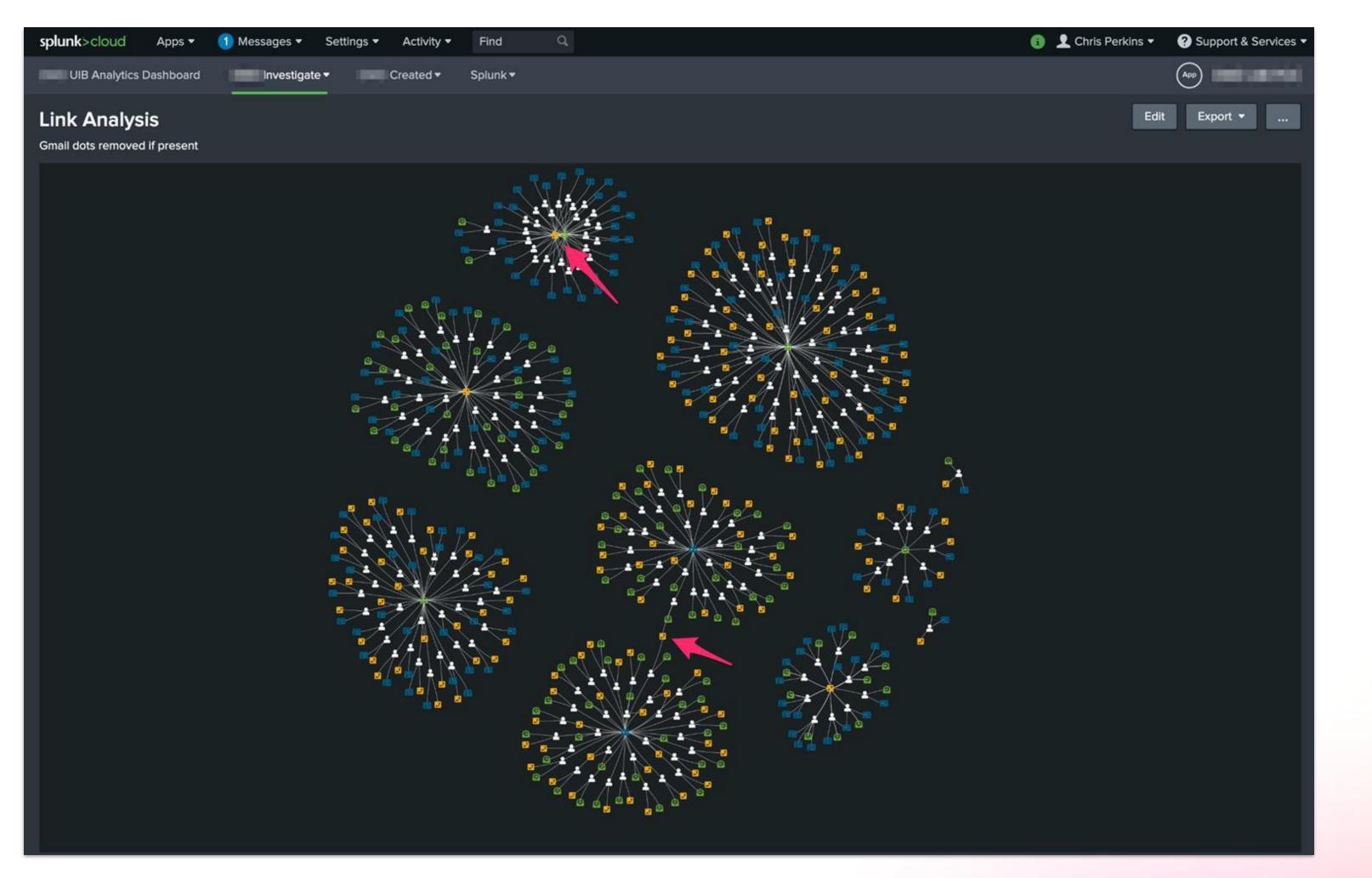
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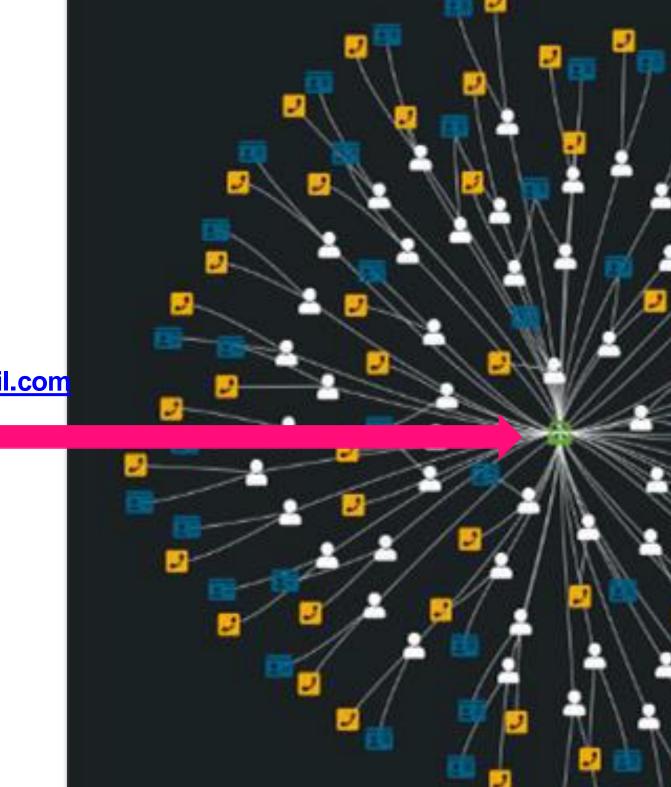
· H

67 / 3,667

Incident / Notable event ¢	Click to Investigate: \$	urgency 🗢	status 🗢
Risk Threshold Exceeded For User - all channels		critical	resolved
Notable-Insider Threat Attempt to Print Larger than Average Job		medium	new
Possible Account Takeover Attack	01: Dashboard - web_traffic	high	resolved
Suspicious Behavior with Risk Exposure	01: Dashboard - risk_exposure	critical	resolved
Suspicious Behavior with Risk Exposure	01: Dashboard - risk exposure	critical	in progress
Suspicious Behavior with Risk Exposure	01: Dashboard - risk_exposure	critical	resolved
Suspicious Behavior with Risk Exposure	01: Dashboard - risk_exposure	critical	closed
Suspicious Behavior with Risk Exposure	01: Dashboard - risk_exposure	critical	closed
Possible Account Takeover Attack	01: Oashboard - web_traffic	high	closed
Risk Threshold Exceeded For User - all channels	01: Dashboard - customer_accounts_analysis 02: Dashboard - risk_exposure 03: Dashboard - web_traffic	high	closed
New Account risk threshold exceeded	01: Oashboard - customer_accounts_analysis	high	in progress
Possible Account Takeover Attack	01: Dashboard - risk.exposure 02: Dashboard - web_traffic	high	new
New Account risk threshold exceeded	01: Dashboard - customer_accounts_analysis	high	new
New Account risk threshold exceeded	01: Dashboard - customer_accounts_analysis	high	inew
New Account risk threshold exceeded	01: Dashboard - customer_accounts_analysis	high	new
New Account risk threshold exceeded	01: Dashboard - customer_accounts_analysis	high	new
Possible Account Takeover Attack	91: Dashboard - web_traffic	critical	in progress
New Account risk threshold exceeded	01: Dashboard = customer_accounts_analysis	high	new
New Account risk threshold exceeded	01: Dashboard - customer_accounts_analysis	high	new
Notable-Insider Threat Excessively Risky User Behavior		high	new
Notable-Insider Threat Excessively Risky User Behavior		high	new
Possible Account Takeover Attack	01: Dashboard - web_traffic	high	pending
Notable-Insider Threat Privilege Escalation and Security Bypass		high	new
Notable-Insider Threat Privilege Escalation and Security Bypass		high	new
Notable-Insider Threat Privilege Escalation and Security Bypass		high	new



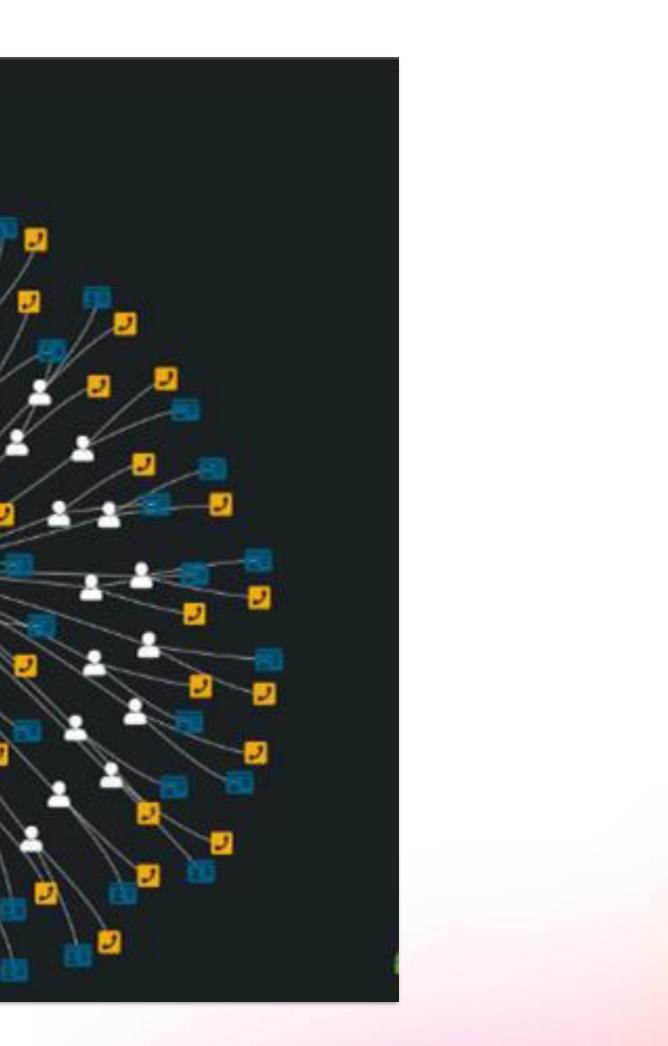
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Carlingtonchambersing187@gmail.com







"Intuition is the use of patterns they've already learned, whereas insight is the discovery of new patterns."

Gary Klein Psychologist antiritite des

The mechanics of fraud prevention using Splunk

/ how RBA works for cybersecurity in ES

Risk Indicator Found

Claim records contained two spaces in the physical address field

addr_mail_1	
123 Main Street	pt. 3
123 Main Street	Init 5
123 Main Street	6
123 Main Street	8
123 Main Street	10
123 Main Street	12
123 Main Street A	pt. 7

Two Spaces

Risk Indicator Found

Claim records contained two spaces in the physical address field

What does this mean?

Unusual patterns or usage of the system can be used to increment risk for given claims or identities.

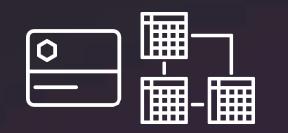
The impact is:

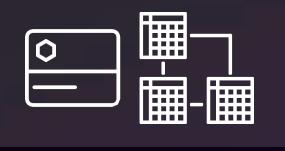
- Lower fraud loss.
- Lower false positive rate.

More efficient, centralized data analytics.

Make decisions quicker during investigations.

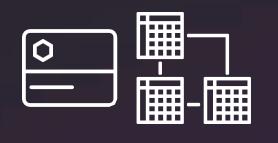






FraudRiskRule-AnomalousLogin FraudRiskRule-DottedGmail FraudRiskRule-SharedSSN FraudRiskRule-SharedBankAccount FraudRiskRule-LandSpeedViolation FraudRiskRule-DisposableEmailDomain FraudRiskRule-ThreatIntelMatchIP FraudRiskRule-BotBehavior FraudRiskRule-ProfileEdit FraudRiskRule-WatchListedAccount

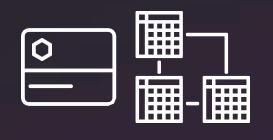
- FraudRiskRule-n



FraudRiskRule-AnomalousLogin FraudRiskRule-DottedGmail FraudRiskRule-SharedSSN FraudRiskRule-SharedBankAccount FraudRiskRule-LandSpeedViolation FraudRiskRule-DisposableEmailDomain FraudRiskRule-ThreatIntelMatchIP FraudRiskRule-BotBehavior FraudRiskRule-ProfileEdit FraudRiskRule-WatchListedAccount

- FraudRiskRule-n



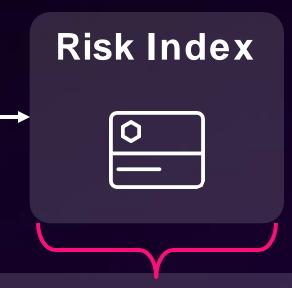


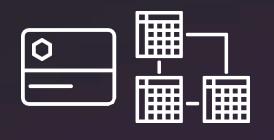
FraudRiskRule-AnomalousLogin FraudRiskRule-DottedGmail FraudRiskRule-SharedSSN FraudRiskRule-SharedBankAccount FraudRiskRule-LandSpeedViolation FraudRiskRule-DisposableEmailDomain FraudRiskRule-ThreatIntelMatchIP FraudRiskRule-BotBehavior FraudRiskRule-ProfileEdit FraudRiskRule-WatchListedAccount

- •
- . FraudRiskRule-n

FraudRiskIncidentRule-24HourRiskScoreThreshold FraudRiskIncidentRule-MultipleFraudRiskRules FraudRiskIncidentRule-14DayMultipleTacticsObserved

FraudRiskIncidentRule-n





FraudRiskRule-AnomalousLogin FraudRiskRule-DottedGmail FraudRiskRule-SharedSSN FraudRiskRule-SharedBankAccount FraudRiskRule-LandSpeedViolation FraudRiskRule-DisposableEmailDomain FraudRiskRule-ThreatIntelMatchIP FraudRiskRule-BotBehavior FraudRiskRule-ProfileEdit FraudRiskRule-WatchListedAccount

- •
- FraudRiskRule-n

FraudRiskIncidentRule-24HourRiskScoreThreshold FraudRiskIncidentRule-MultipleFraudRiskRules FraudRiskIncidentRule-14DayMultipleTacticsObserved

FraudRiskIncidentRule-n

Fraud Risk Notable Event Created

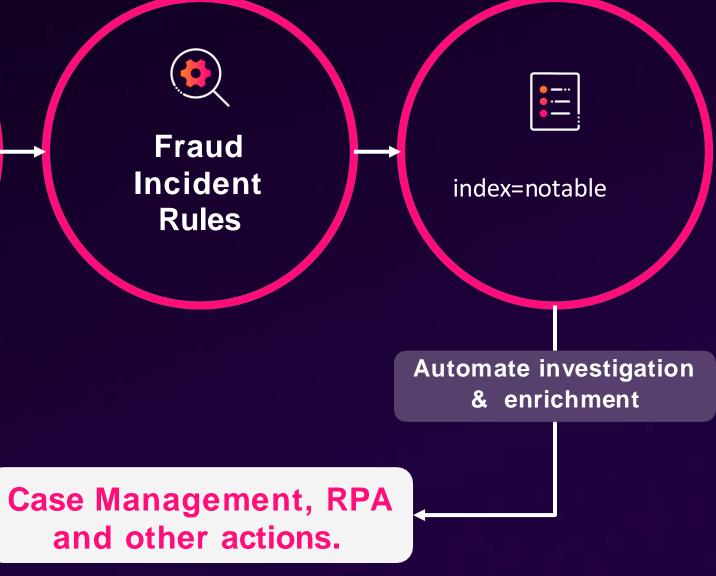


Risk-Based Alert (RBA) Pipeline



Risk-Based Alert (RBA) Pipeline



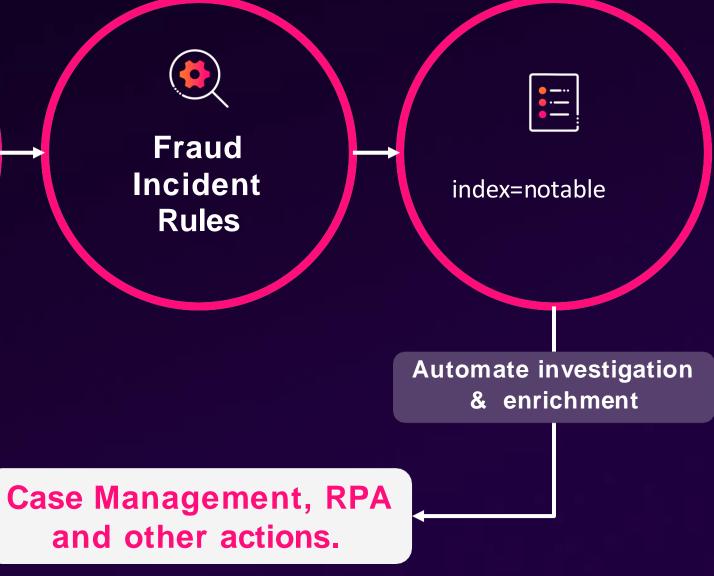


Risk-Based Alert (RBA) Pipeline

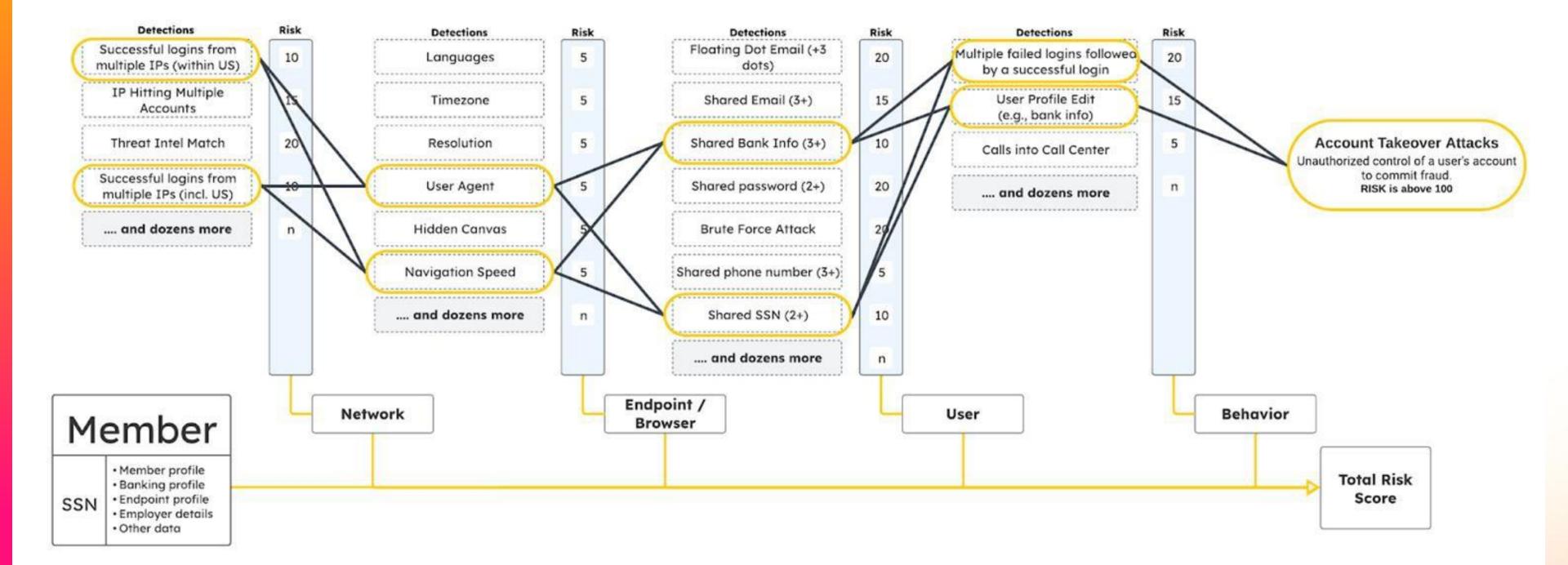


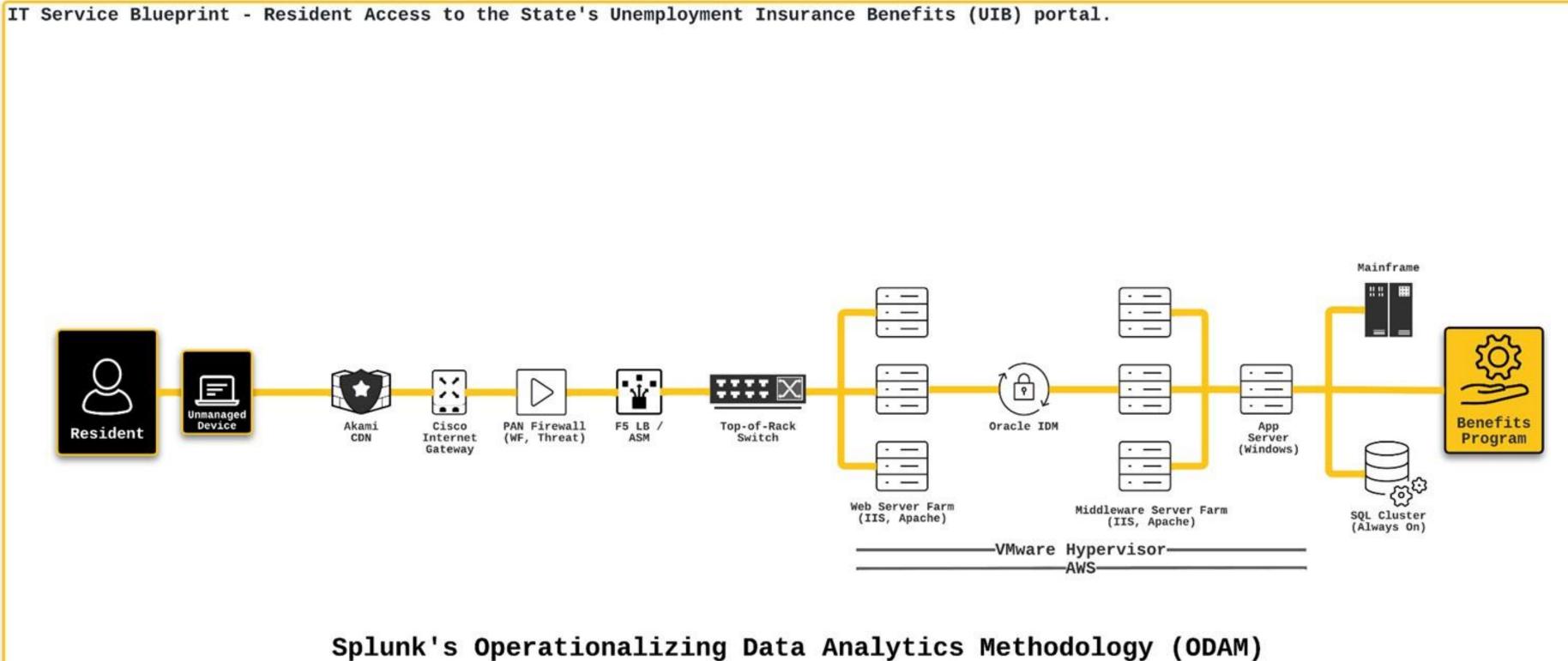
Analyst | Investigator | Adjudicator

© 2024 SPLUNK INC.



Fraud Attack: ATO (account takeover)









This deshboard shows the technology and associated health scores.





Unmanaged Device

87%









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		1	24	э.	
I		1		2	

Akami CDN

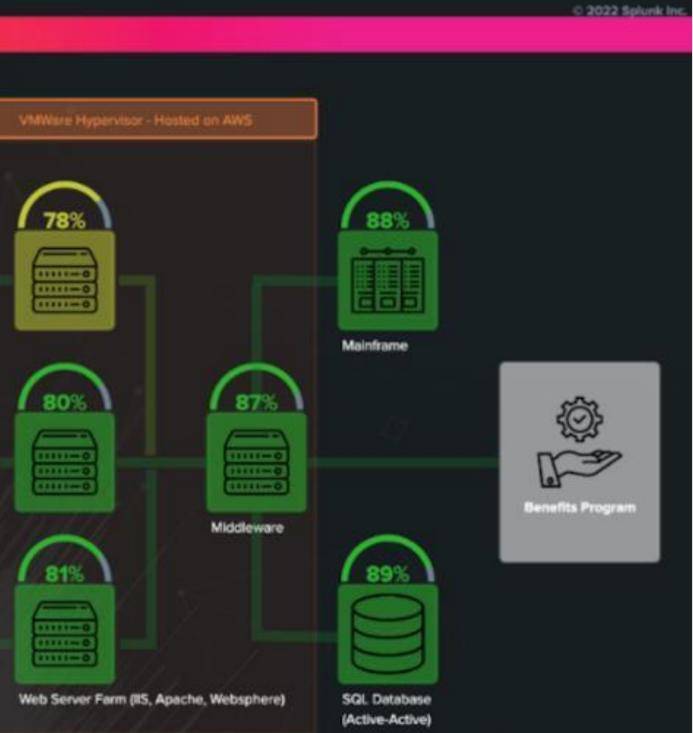
Cisco Router

PAN Firewall

F5 Load Balancer

Top Of Rack Switch

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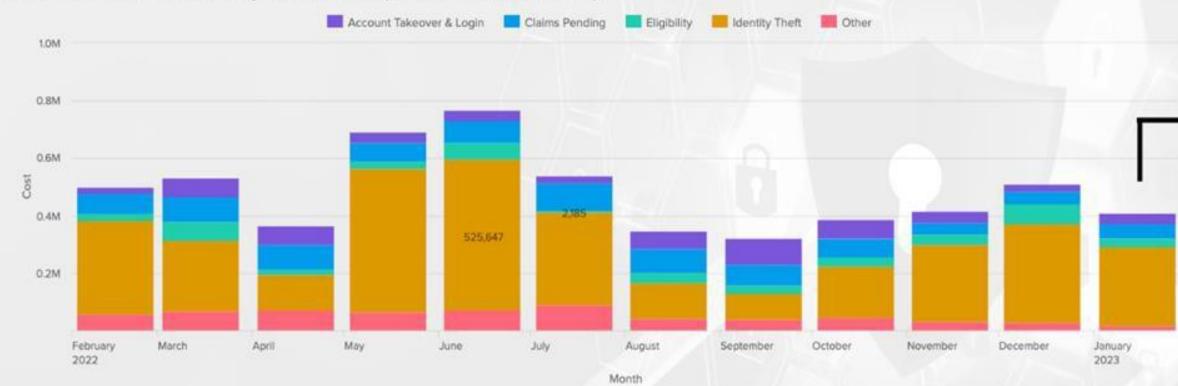


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Public Benefit Program Integrity

The Office of Public Benefits Integrity is responsible for investigating public assistance fraud or misuse regarding Identity Theft, Eligibility Fraud, False Claims and Account Takeover and Logins.

Volume Of Fraud By Reason (Last 12 Months)



Account Takeover & Login

Account takeover fraud occurs when criminals successfully gain access to your online accounts. Scammers target any online account that contains either your financial information (credit card numbers, account details, etc.) or your personally identifiable information.



41% Current/Previous Month Trend

0% % Total Cost

121

Eligibility

Eligibility Fraud is classified as filing false claims under the pretense the provider will not investigate the validity of the claim and the filing entity can illegally retain the benefits/monies provided.

\$420,474 Total Cost Over 12 Months

58% Current/Previous Month Trend



Claims Pending

A broad array of scenarios can constitute FCA (False Claims Act) violations. Healthcare Fraud cases include: coding false claims, DRG false claims, PPS false claims, Medicare kickbacks, outpatient PPS false claims fraud, Stark law violations, DME fraud, and DRG fraud.







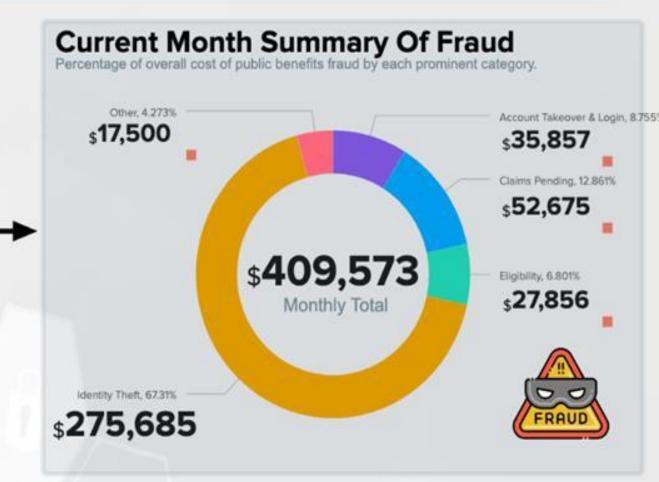
Identity Theft

Identity (ID) theft happens when someone steals your personal information to commit fraud. The identity thief may use your information to apply for credit, file taxes, or get medical services. These acts can damage your credit status, and cost you time and money to restore your good name.



Current/Previous Month Trend





Q . Q .

Other

Other miscellaneous forms of fraud not broadly categorized in the other top 4 categories.

\$632,930 Total Cost Over 12 Months

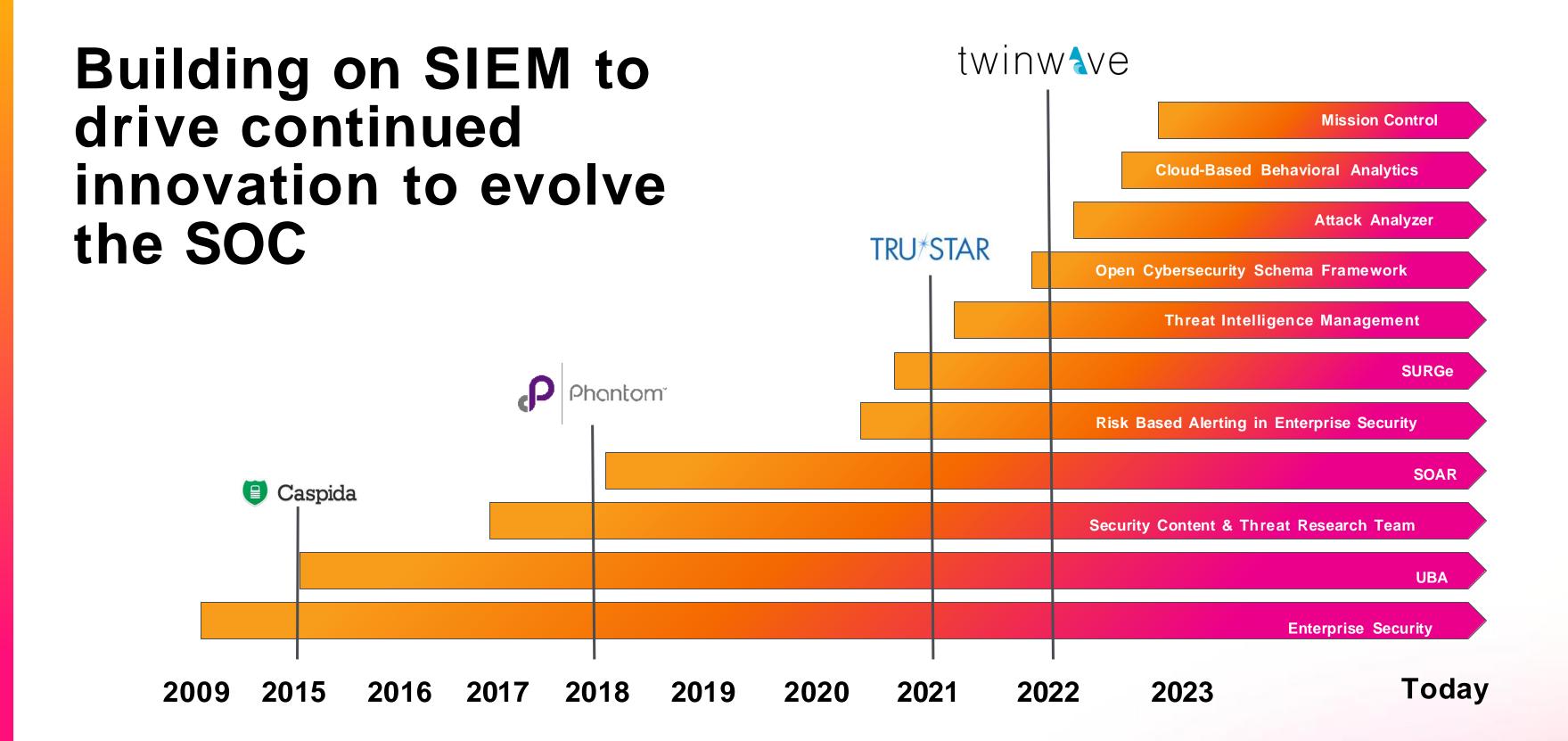
Current/Previous Month Trend





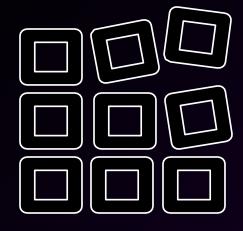


Deep Dive on Critical Capabilities



The data landscape is changing for the SOC How do you effectively manage data for the SOC of the future?





Data is growing exponentially.

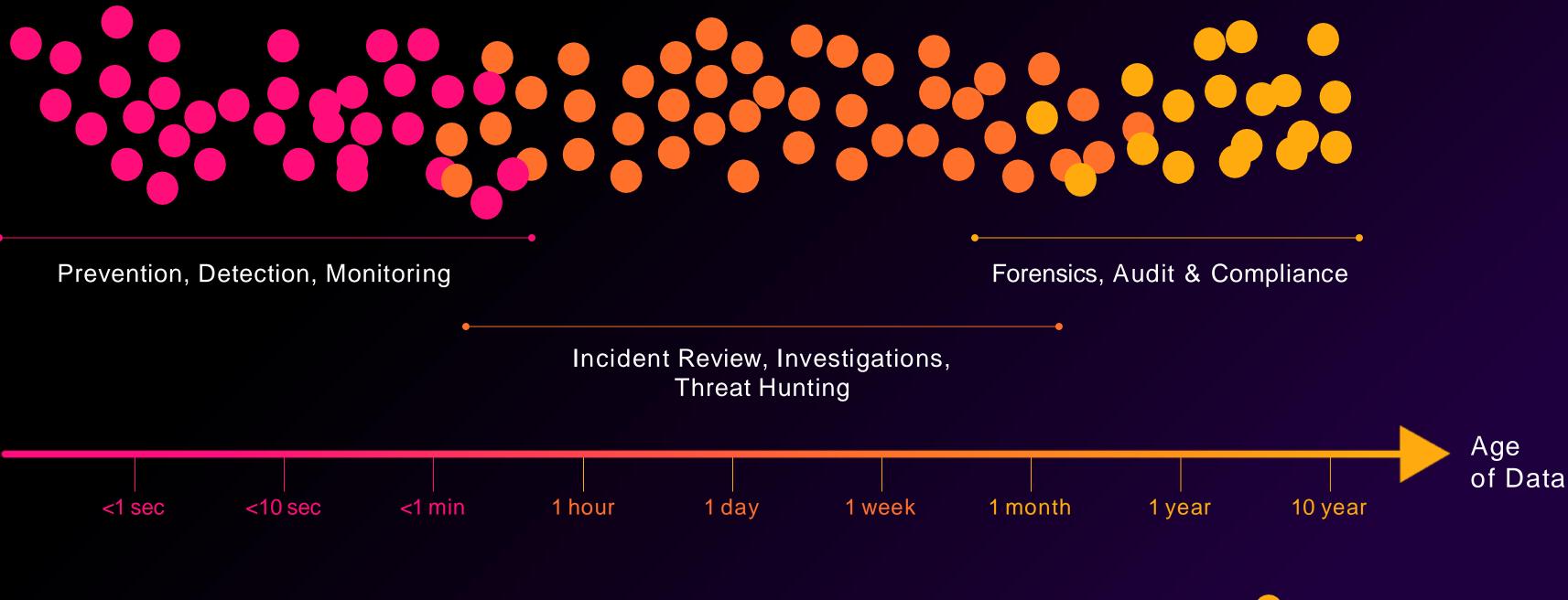
All data is not created equal.

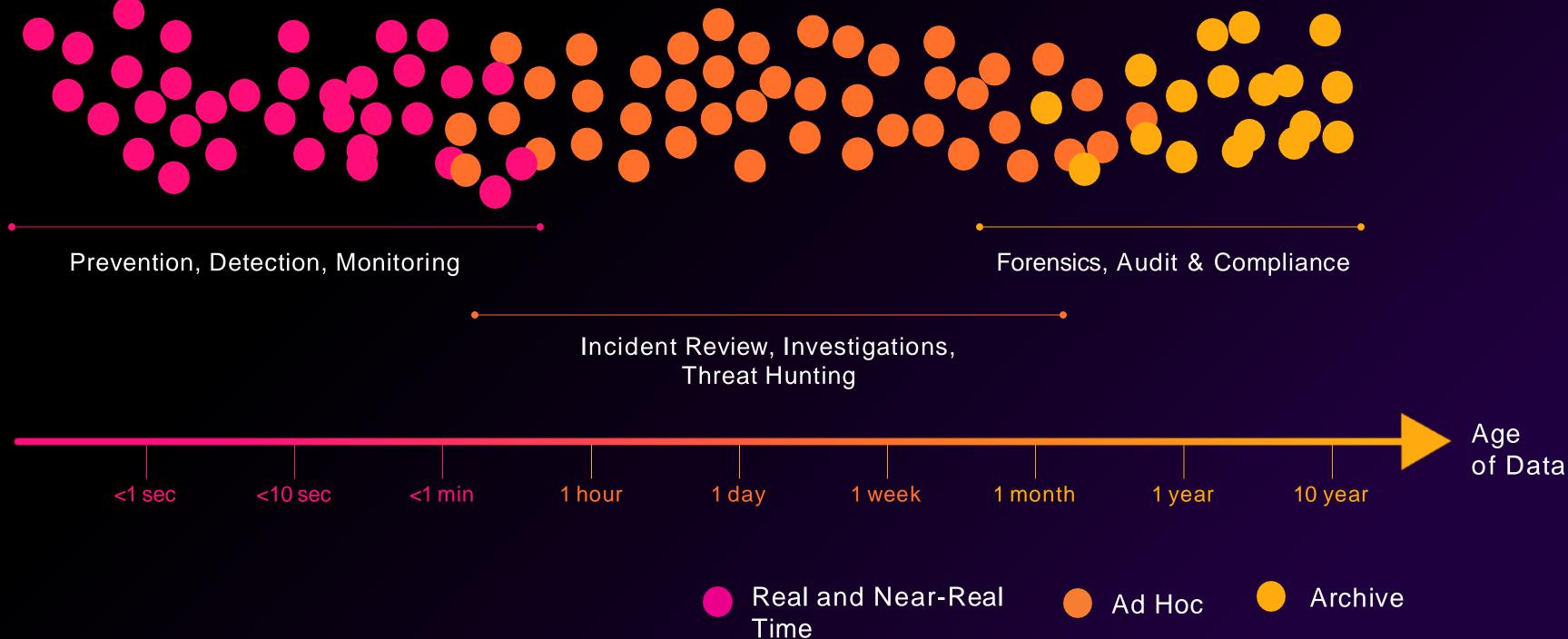


Data may not be able to be moved within a time frame or at all.

Effectively prioritize data based on use cases for your SOC

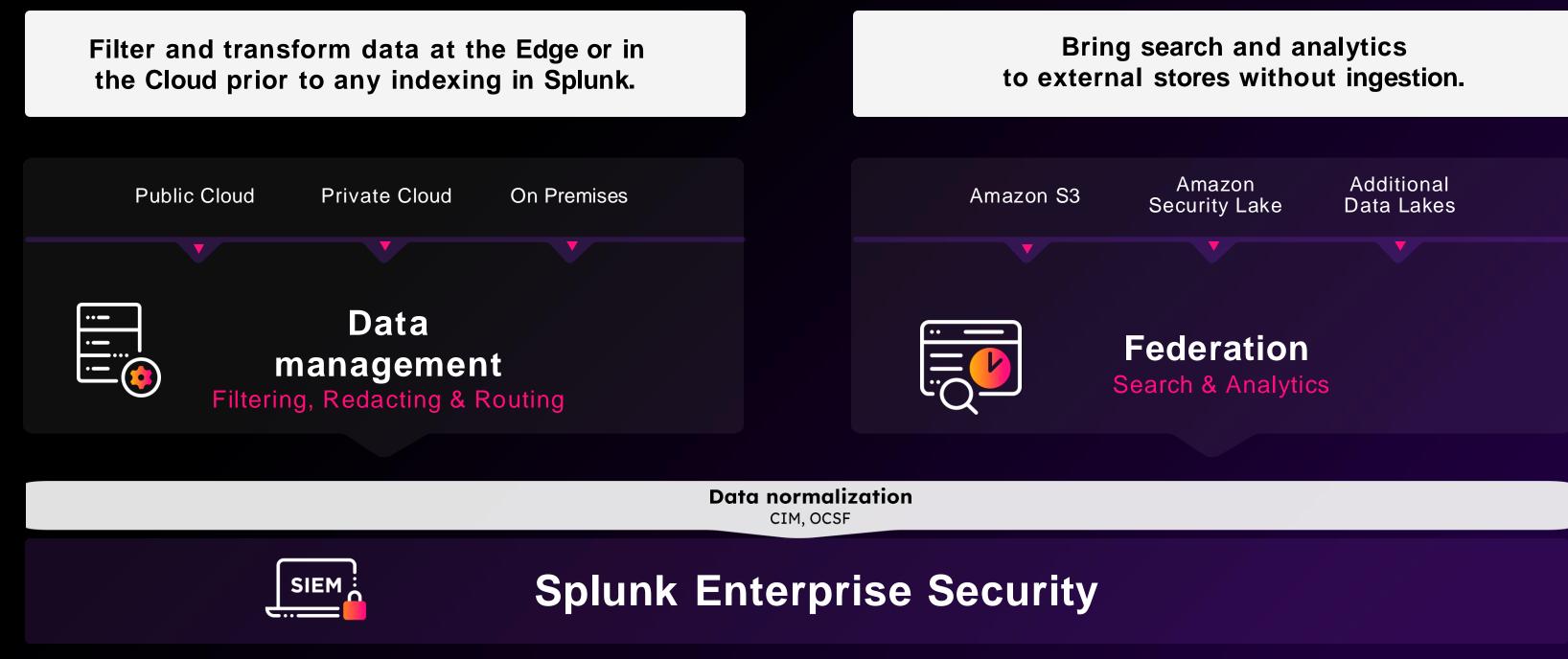
Manage your data to deliver a stronger security posture





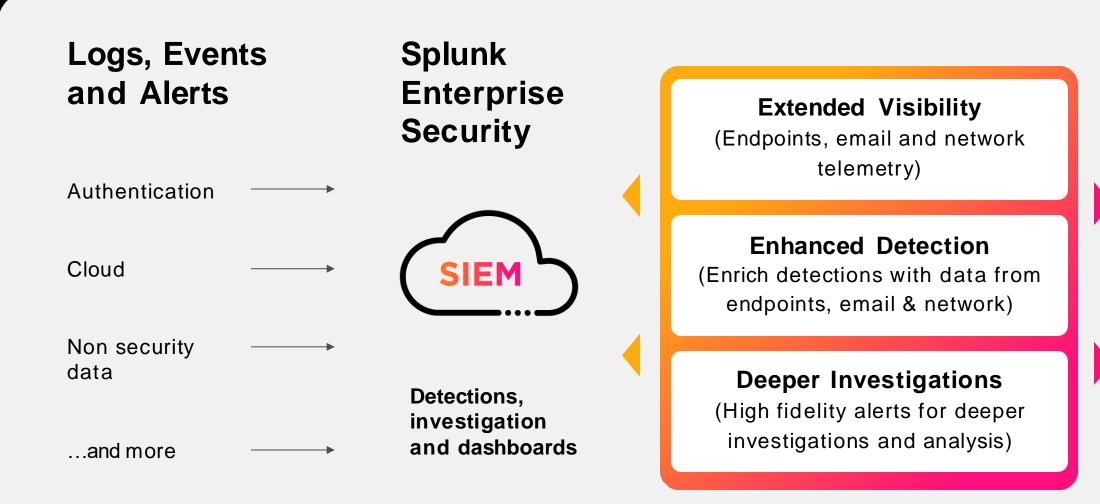
Manage SOC data your way

Flexibility to manage, find and analyze actionable data in your SOC.



Expand detection surface and context

Cisco XDR integration with Splunk ES



Best-in-class detections across all threat vectors

Full coverage for investigating known and unknown threats







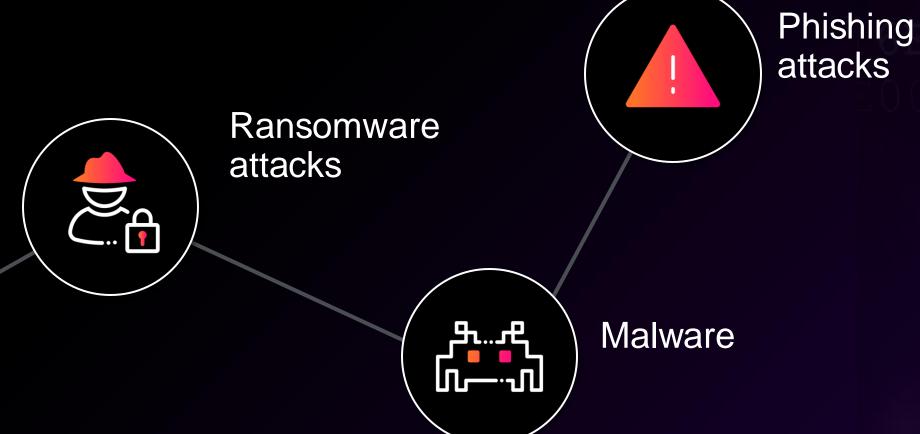
Automate any action, at scale





attacks

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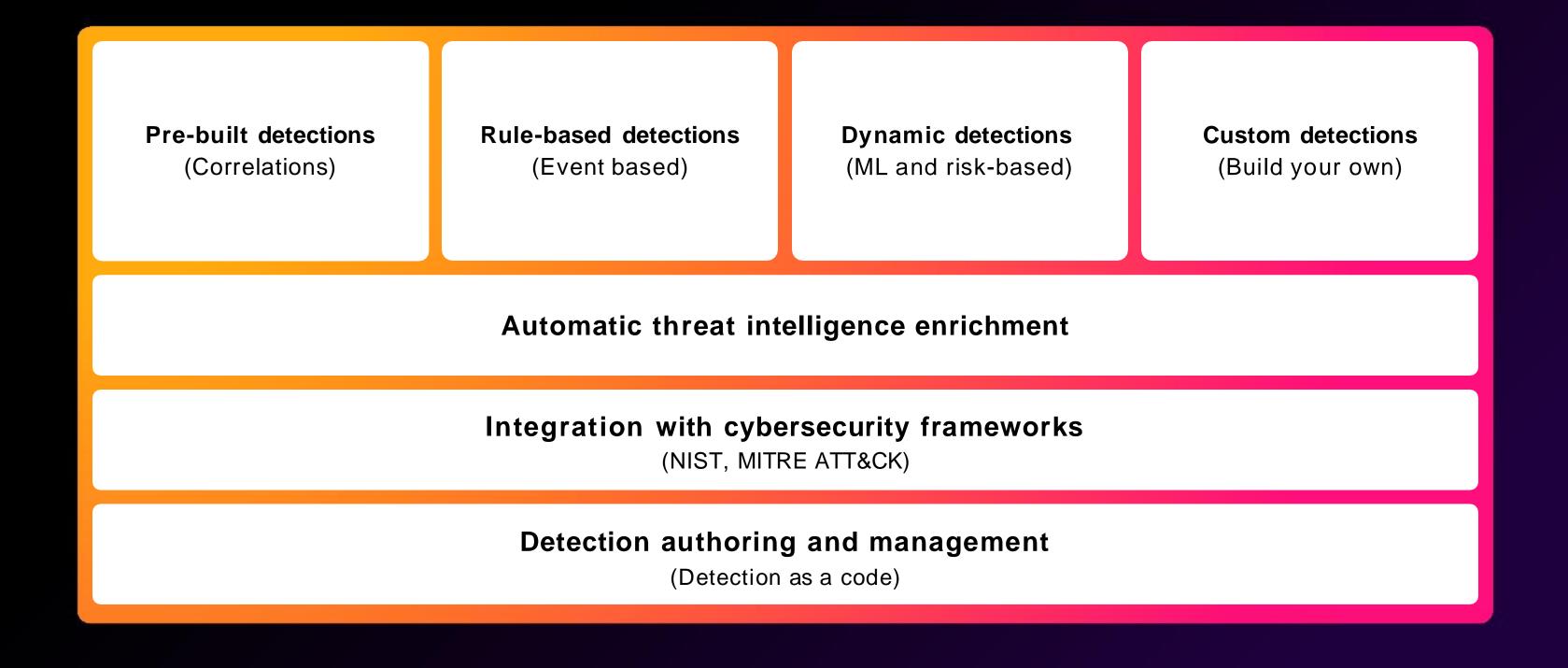


Al-Driven attacks •• بر از \ Advanced persistent Zero day exploits Insider threats ළ

Transform threat detection

At the core of a TDIR platform are detections

A comprehensive approach is needed to tackle the expanding landscape of cyberthreats



Splunk Security delivering a comprehensive approach

World class detection approach for the SOC of the future

Pre-built detections

- 1,700+ Curated Detections by Splunk Threat Research
- 225+ Analytic Stories
- 75+ Automation Playbooks

Rule-based detections

- **Event-based Detections**
- Findings-based Detections
- Adaptive Response Actions
- Automation Rules and SOAR Playbooks

Dynamic detections

- ML-based Detections
- Real-time Behavioral Analytics
- Risk-Based Alerting

Automatic threat intelligence enrichment

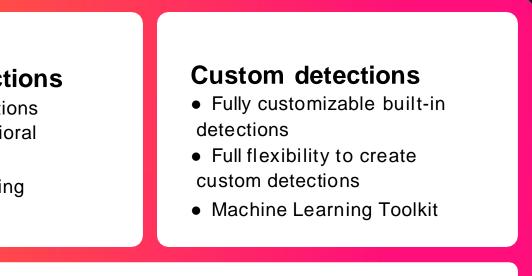
(Threat Intelligence Management, Talos Threat Intelligence, 3rd Party)

Integration with cybersecurity frameworks

(Threat Topology Visualization, MITRE ATT&CK, NIST CSF 2.0, Cyber Kill Chain®)

Detection authoring and management

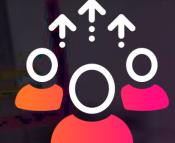
(Automatic Detection Versioning, Open Source Tools)



AI for enhanced security operations

Al will lift up defenders





Human-in-the Loop

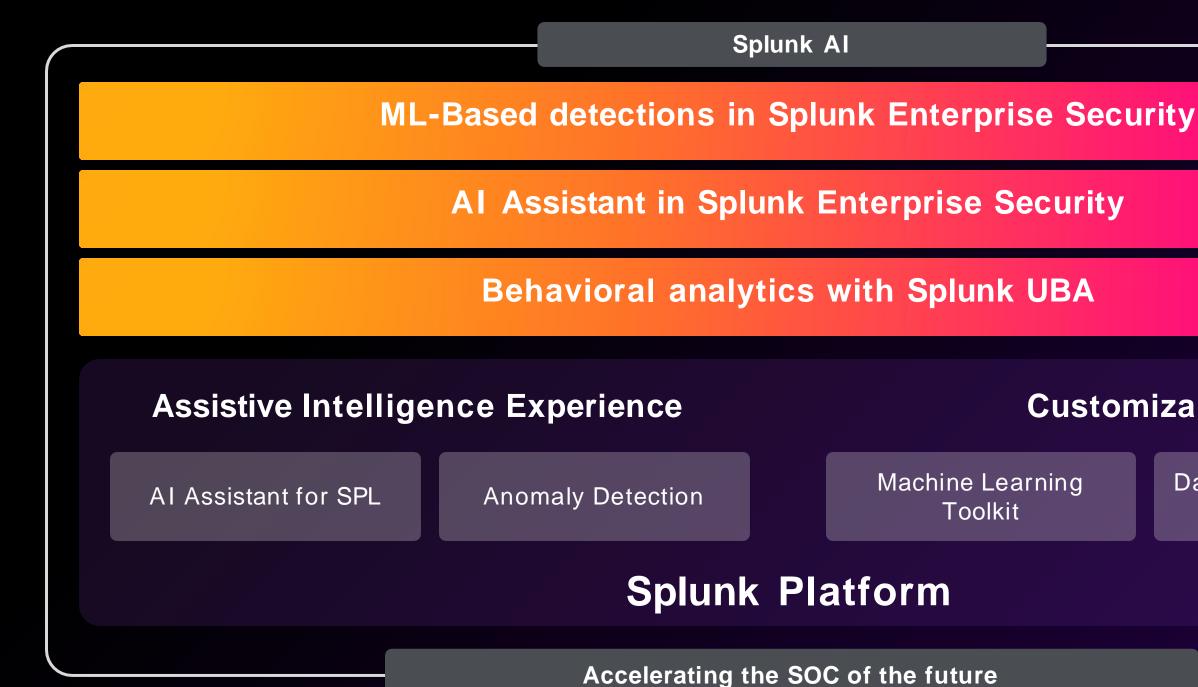
Domain-specific



Open and Extensible

AI for enhanced security operations

Driving a new wave of maturity for the SOC Powered by Splunk Al



Customizable ML

Data Science and Deep Learning

AI Assistant

Guided Security workflows where you do your work

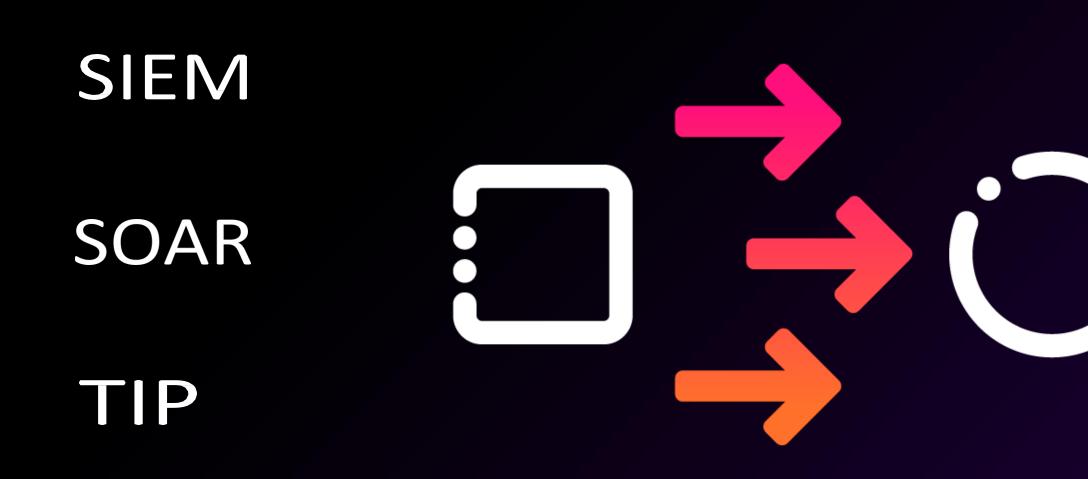
- Answer analyst questions to guide daily workflows
- Save time while addressing threats more rapidly
- Use natural language queries to get answers during investigations

	Mission Control	Analyt	ics - Secu	rity content -	Configure -	Search	
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	Overview						
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Unified TDIR is driving convergence

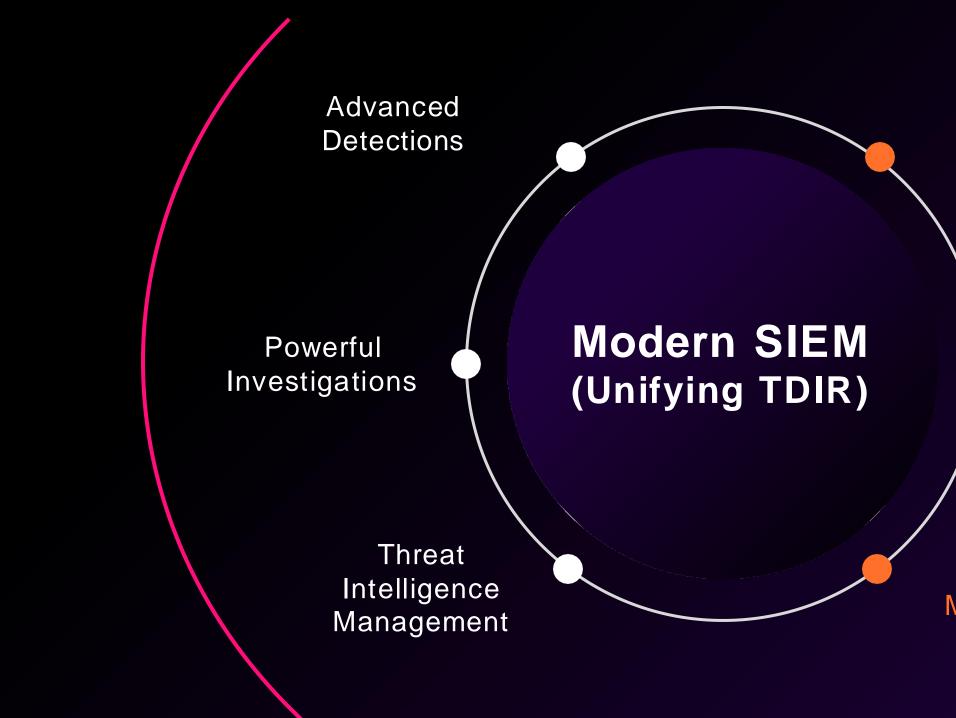
Simplify the use of critical tools for the SOC of the future



Modern SIEM

Re-imagining the SIEM for the SOC of the future

Anchoring the Unified TDIR with automated workflows at the core of the SOC



Unified Workbench

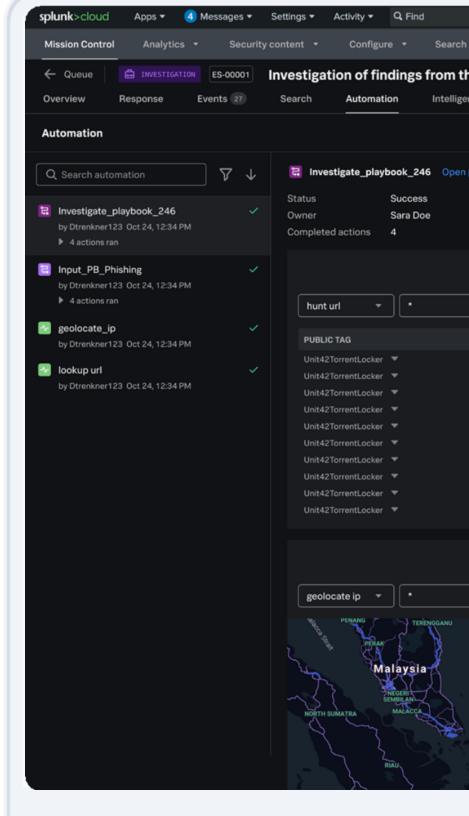
> Automation & Orchestration

Case Management

Meet the modern SIEM

Powering the SOC of the future with ES 8.0

- Improved case management capabilities
- Native SOAR integration with a unified worksurface
- Enhanced detection engineering capabilities
- Simplified terminology for security analytics



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ES 8.0 UI shown is for illustration; not final product.

Summary

- Splunk is a platform that can be used to extract value out of your data.
- Risk-Based Alerting (RBA) is a game-changer.
- Data storytelling is a key skill to cultivate.
- Splunk's AI capabilities will change how you work.
- Blueprinting your IT Services is a great place to start.
- Signals, Semantics and Logic the three layers of data.
- Descriptive, Diagnostic, Predictive and Prescriptive the four levels of data analytics.

How it started

Splunk Overview

Data & Analytics

Fraud & Cybersecurity

Agenda

Thank You

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