

CISCO User Group Soc Of The Future User Guide

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Cisco User Group Soc of the Future Nathan Smith Head of Security APAC

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User Group Soc Of The Future



Nathan Smith Head of Security, APAC



Industry Trends

Major Breaches	Regulatory Complian ce	Cyber Crime as a service grow s
010101010 10HACKED10 101101001100	STEER AS DUTCH. HEART STEER AS DUTCH. HE	As-a SERVICE
As data breaches scale up, organizations and gover nments will be forced to spend more money to recover from them	Critical infrastructure re gulations, industry specific regulations de mand detection & response capabilities.	Cyber Crime is big Business and the entry level is continually bein g lowered via as a service models.



Key technology shifts in the SOC

Past

- Limited visibility across disconnected data sources and relying on ingest only approach hampers ability to identify high-risk threats amidst the digital noise.
- Reactive threat detection based on signatures or predefined rules with limited threat intelligence enrichment leading longer attacker dwell times.
- Reliance on manual efforts with limited automation for select routine tasks keeping your security team stuck in a reactive mode moving from tool to too.
- Lack of AI to help guide SOC workflows providing no relief for an already overworked and overwhelmed security team.
- Disjointed threat detection, investigation, and response limiting MTTD and MTTR.

Future

- Comprehensive visibility across all data, no matter where located with context for full attack-surface coverage with no "weak" signals missed.
- Proactive threat detection using AI/ML, risk based approach, and comprehensive threat intelligence stopping advanced attacks and slashing dwell times.
- Pervasive automation across threat analysis, containment, response and recovery actions increasing security team's productivity and efficiency.
- Al guided SOC workflows to help increase efficiency and effectiveness of the security team
- Unified threat detection, investigation, and response dramatically improving MTTD and MTTR.

The SOC of the Future

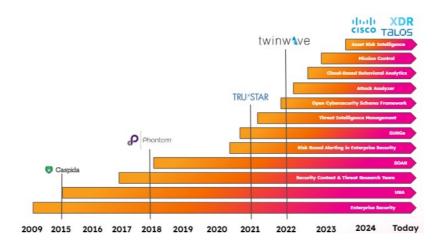
Unified Threat Detection, Investigation and Response at the Core.



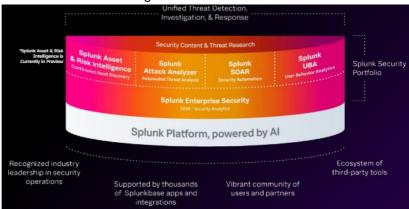
Delivering the essential capabilities

SOC of the Future	Splunk Security Delivers
Comprehensive Visibility	 Ingest and normalize any data at scale Federated search and analytics to access data from anywhere Open Cybersecurity Schema Framework open standard
Proactive Threat Detection	 1,500+ curated detections crafted by Splunk Threat Research Behavioral Analytics to detect unknown threats and anomalies MLTK to build custom ML solutions for any use case Risk based alerting to tackle alert fatigue Integrated Threat Intelligence Enrichment
Pervasive Automation	 Automated Threat Analysis for decisive action and rapid response Powerful SOAR to increase speed of investigation and response Automate efficiently using pre-built playbooks and integrations
Al guided SOC workflows	Splunk Al Assistant to search for data using natural language Embed Splunk Al Assistant for security into workflows
Unified TDIR	 Single, modern worksurface to unify TDIR Codify processes into response templates to simplify workflows Easy case management within your response templates

Building on SIEM to drive continued innovation to evolve the SOC



Powering the SOC of the future with the feading TDIR solution



Foundational use cases

Providing the critical capabilities on your resilience journey

Foundational Visibility See across environments Data Optimization Security Monitoring Incident Management Asset Discovery & Management Compliance Visualization & Reporting	Guided Insights Detect threats and issues with cont ext Threat Intelligence Enrichment Leverage Cybersecurity Framework s Risk Based Alerting Al Assisted Guidance Anomaly Detection Threat Hunting	Proactive Response Get ahead of issues Automate Threat Analysis Automate Containment & Response Actions Orchestrate Response Workflows	U C A e S R A F
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Accelerated by Splunk AI What about AI?

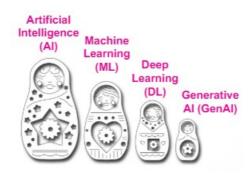


What is AI and Machine Learning?

Artificial Intelligence (AI) – capability of a computer system to mimic human cognitive functions such as learning and problem-solving

Machine Learning (ML) – subset of AI that uses mathematical models of data to help a computer learn without direct instruction

Deep Learning – subset of AI that uses computationally intense ML models inspired by the "deep" layers of the biological neural network of the human brain to accomplish complex goals like image recognition Example: Self driving car recognizes stop sign Generative AI – subset of AI that involves the use of algorithms and techniques to generate new data, things that have not existed in the world before being created by the models



Recent AI Breakthroughs and Trends

- 1. Traditional Cognitive Tasks
 - Human parity in
 - image classification (2015, Microsoft)
 - speech recognition (2017, Microsoft)
 - text summarization (2019, Google)
 - translation (2022, OpenAI)
 - reading comprehension (2023, OpenAI)
- 2. New and Emerging Capabilities

Generative AI Capabilities

- Chat
- Q&A
- Summarization
- Suggestion
- Code generation
- Image generation
-
- 3. Domain Specific Innovations

New product categories

- ChatBot
- Security Copilot's
- Google Duet Al
- Al Assistant
-

What's the benefit to the SOC?

Guidance

Provide guidance to analyst on next steps, lowing the entry level of knowledge needed to investigate and respond.



Faster Response

Reducing the time need to investigate and increasing the response time in taking actions.



Proactive

Al will help SOC teams prioritise activities and to move from reactive to proactive activities.

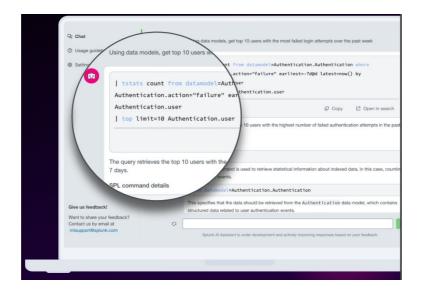


New

Al Assistant for SPL

Preview in Q1 & GA at .conf

- ▶ Upskill new and advanced Splunk users quickly.
- ► Translate bi-directionally between NL and SPL.
- ► Receive personalized recommendations.



New

Al Assistant for Security

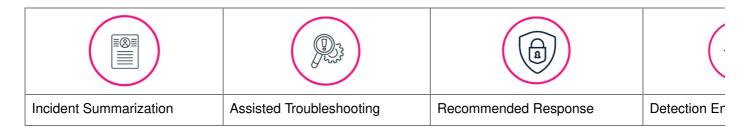
Investigate faster.

- ► Answer analyst questions to speed up daily workflows.
- ▶ Save time while addressing threats more rapidly.
- ► Access natively within Splunk ES.



Splunk AI Assistant for Security

Accelerate the SOC with GenAl



A recognizes leader in cybersecurity



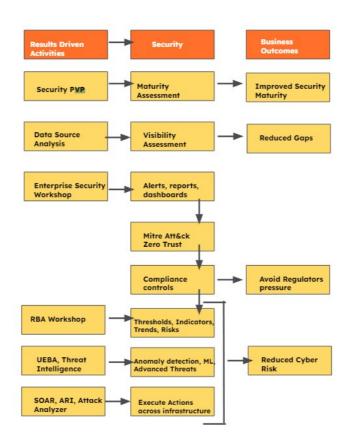


Kuppin

5 awards for SIEM and SOAR

Leader Award SIEM and SOAR

A leader in SOA



How to get started





Documents / Resources



<u>CISCO User Group Soc Of The Future</u> [pdf] User Guide User Group Soc Of The Future, User Group Soc Of The Future, Soc Of The Future, The Future, Future

References

• User Manual

Manuals+, Privacy Policy

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