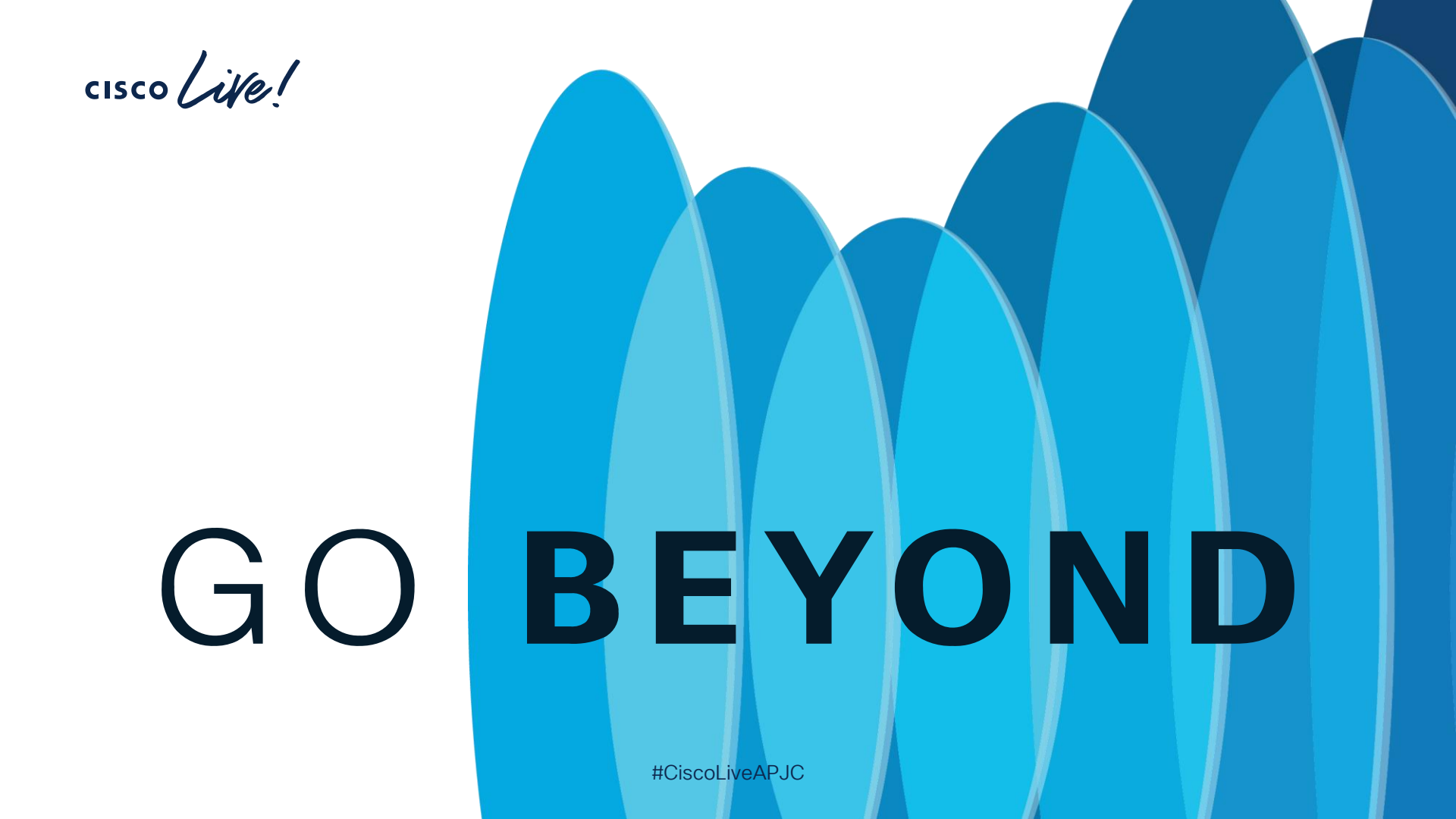
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Simplify the Analyst Experience by Harnessing AI and Machine Learning

Using AI for SecOps Efficiency

Jay Kripalani, Senior Security Solution Architect - Splunk
@jkripala

BRKSEC-2586

Cisco Webex App

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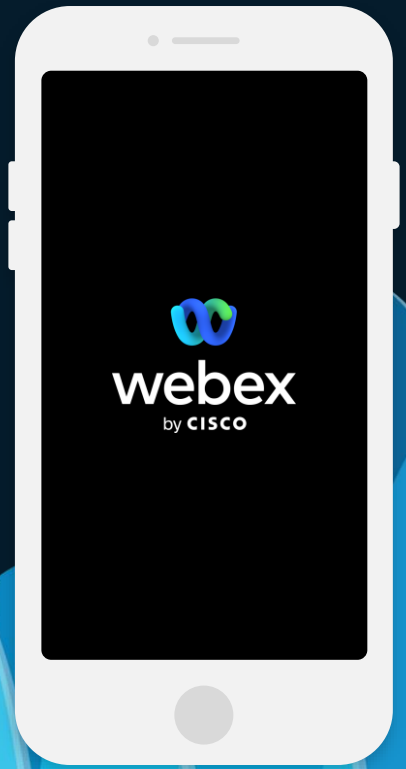

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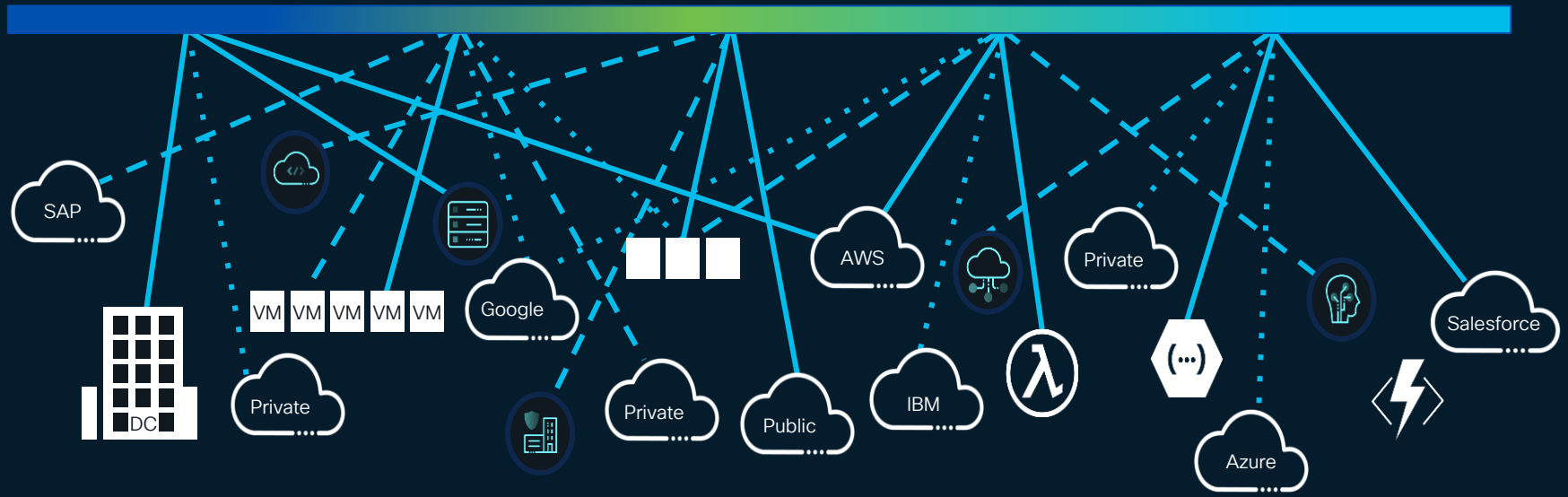
Digital Transformation Made Detection, Investigation and Response Harder



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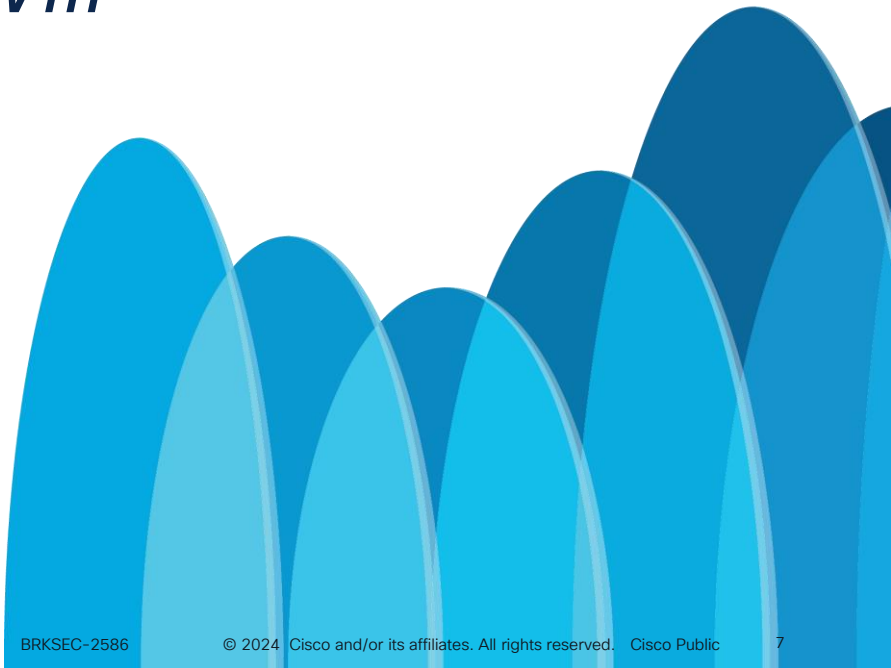
The Next ~~10~~ Years Will Be Defined By AI Adoption



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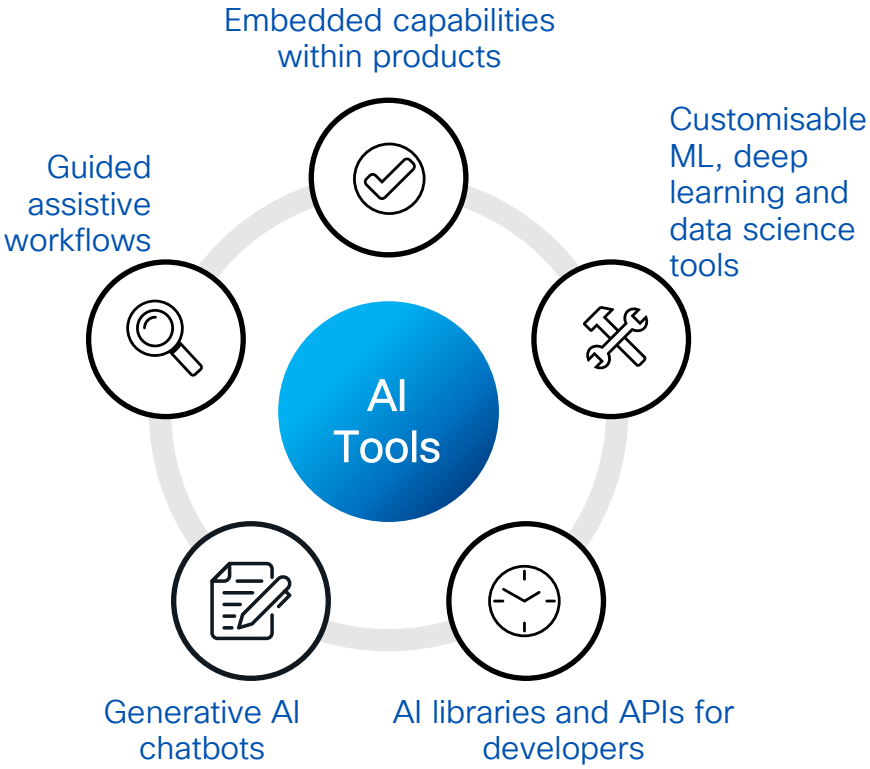
Splunk's Secret AI-Super Power is Data!



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Our AI Product Philosophy

Domain Specific	Human in the Loop	Open and Extensible
Focused on Security and Observability	Human-assisted AI for detection, investigation, and response	Easily integrated with third party frameworks

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How can Splunk help you in your AI journey?

Building AI Models

Help build AI models on the highest data quality

Securing and monitoring AI

Monitor and secure AI data, infrastructure and and governance

Leveraging AI in Splunk

Improve security and observability outcomes with AI

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Where are we investing?

Accelerate detection, investigation and response

Sense Making

Make sense of the signal to improve user productivity and outcomes.

Finding Signals

Find the signal from the noise in vast amounts of data.

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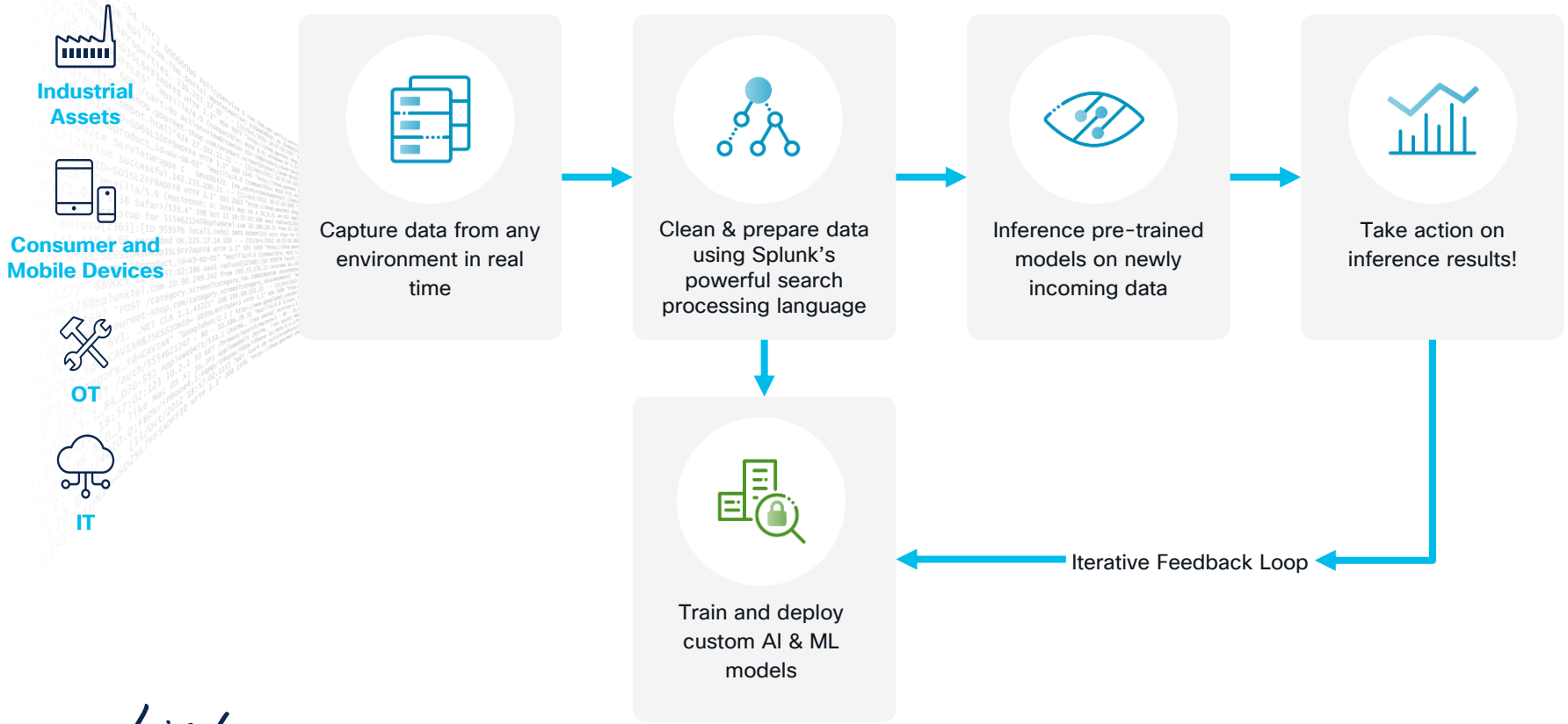
Splunk's Customizable AI & ML Pipeline



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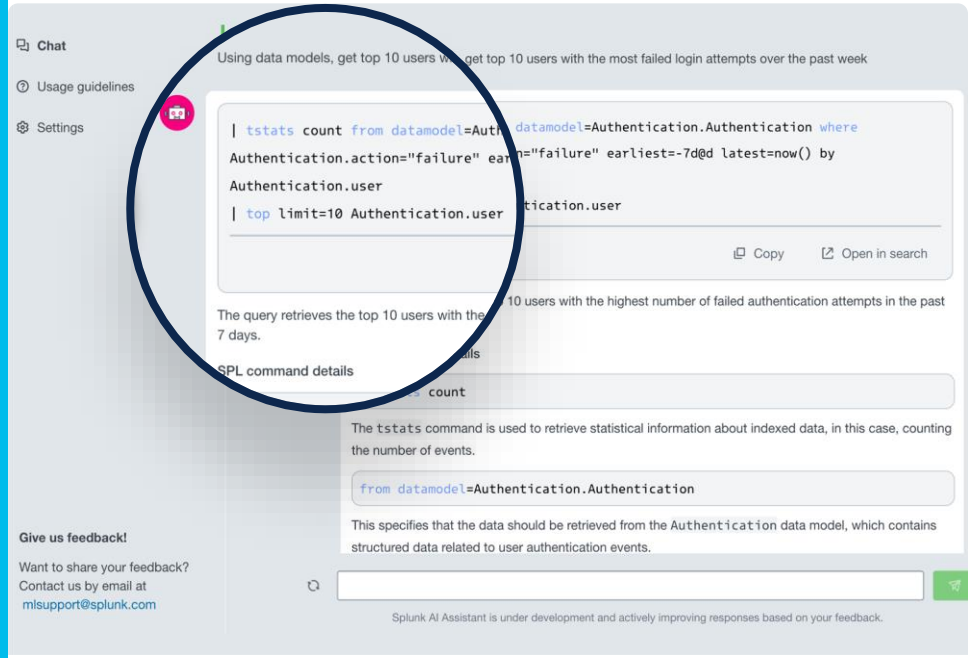
New AI Assistant for SPL

Preview in Q1 & GA in Q2

- Upskill new and advanced Splunk users quickly.
- Translate bi-directionally between NL and SPL.



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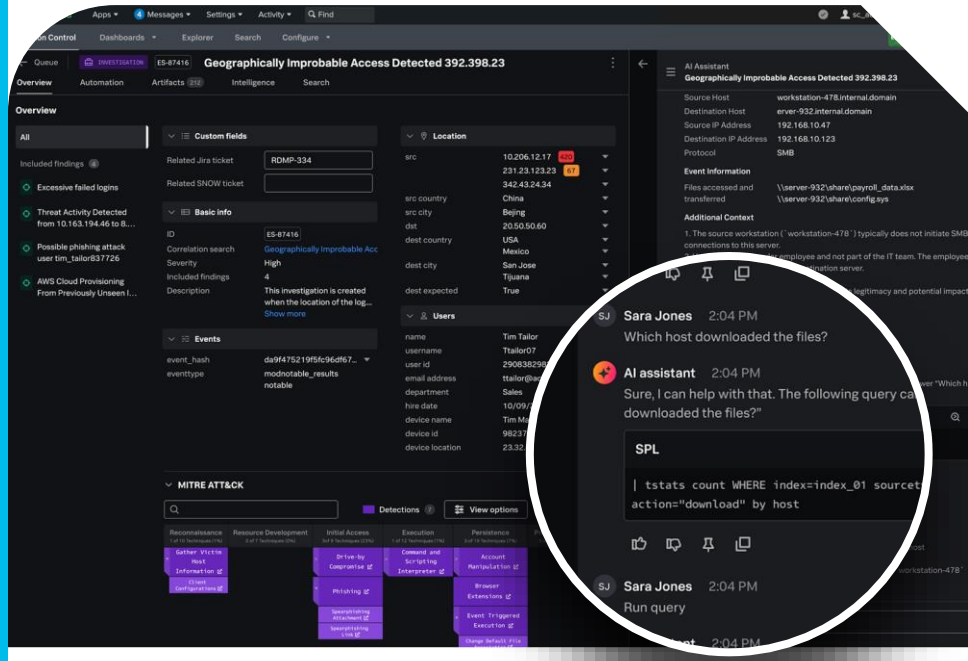
New AI Assistant in Enterprise Security

Coming Soon

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



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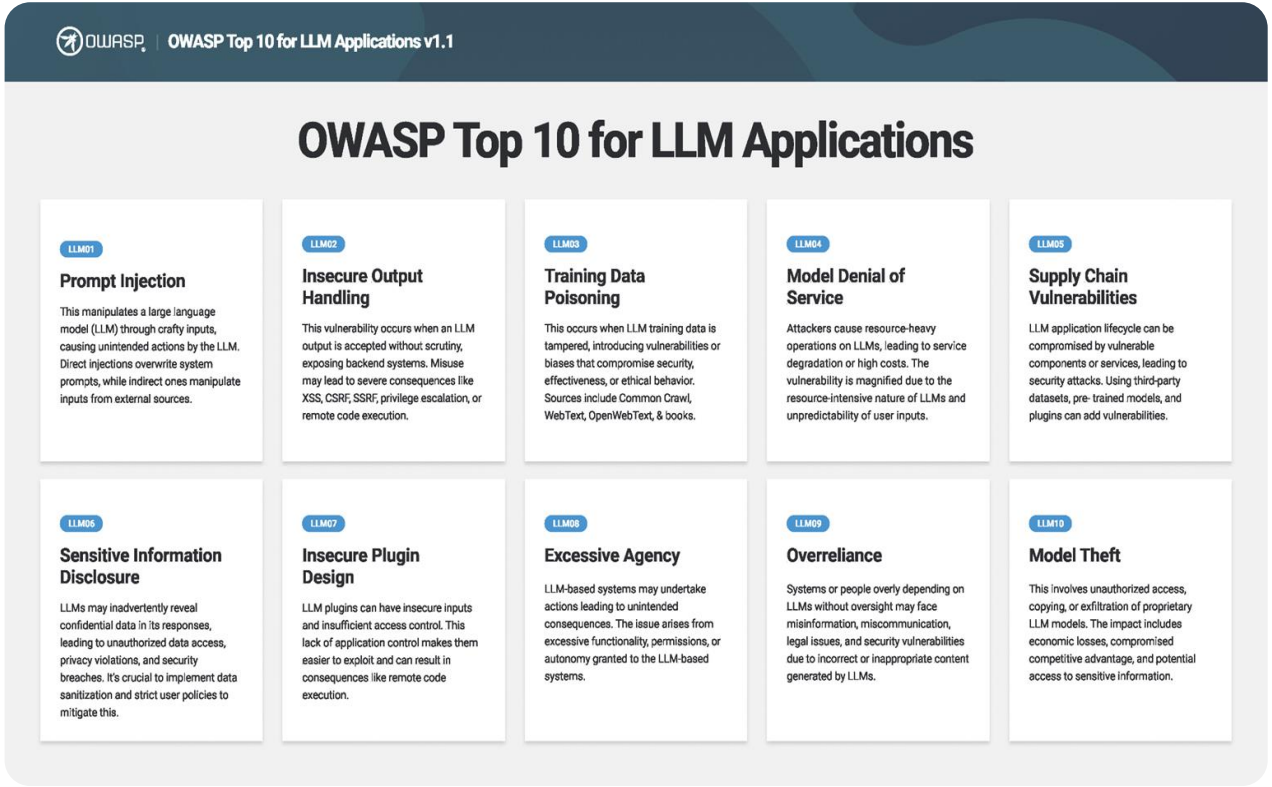
SURGe by Splunk

SEC1928 – SURGe Minicon: LLM Lifeguard: Protecting LLMs Using Splunk and the OWASP Top 10 for LLM Applications



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Cisco + Splunk
Power and protect the AI revolution

Infrastructure for AI

Networking and compute solutions for training AI models at scale

Data for AI

Massive breadth and depth of data across domains is the foundation for AI models

Observability for AI

Observability supports trustworthy, performant, and reliable AI deployment

AI for Security

AI solutions improve efficiency, efficacy, and economics of defending against security threats

Security for AI

Cisco's Identity Intelligence and User Protection and Splunk's analytics help protect enterprises in their use of AI from within

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What's next for security assistive AI @ Splunk

- Continue to augment the analyst experience
  - Incident Prioritization
  - Incident Response
  - Automation Guidance
  - Guided → Assisted
  - Prompts → Functions
- Empower the security engineer
  - Detection engineering support
  - Automation engineering support

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Demo – AI Assistant in Splunk Enterprise Security

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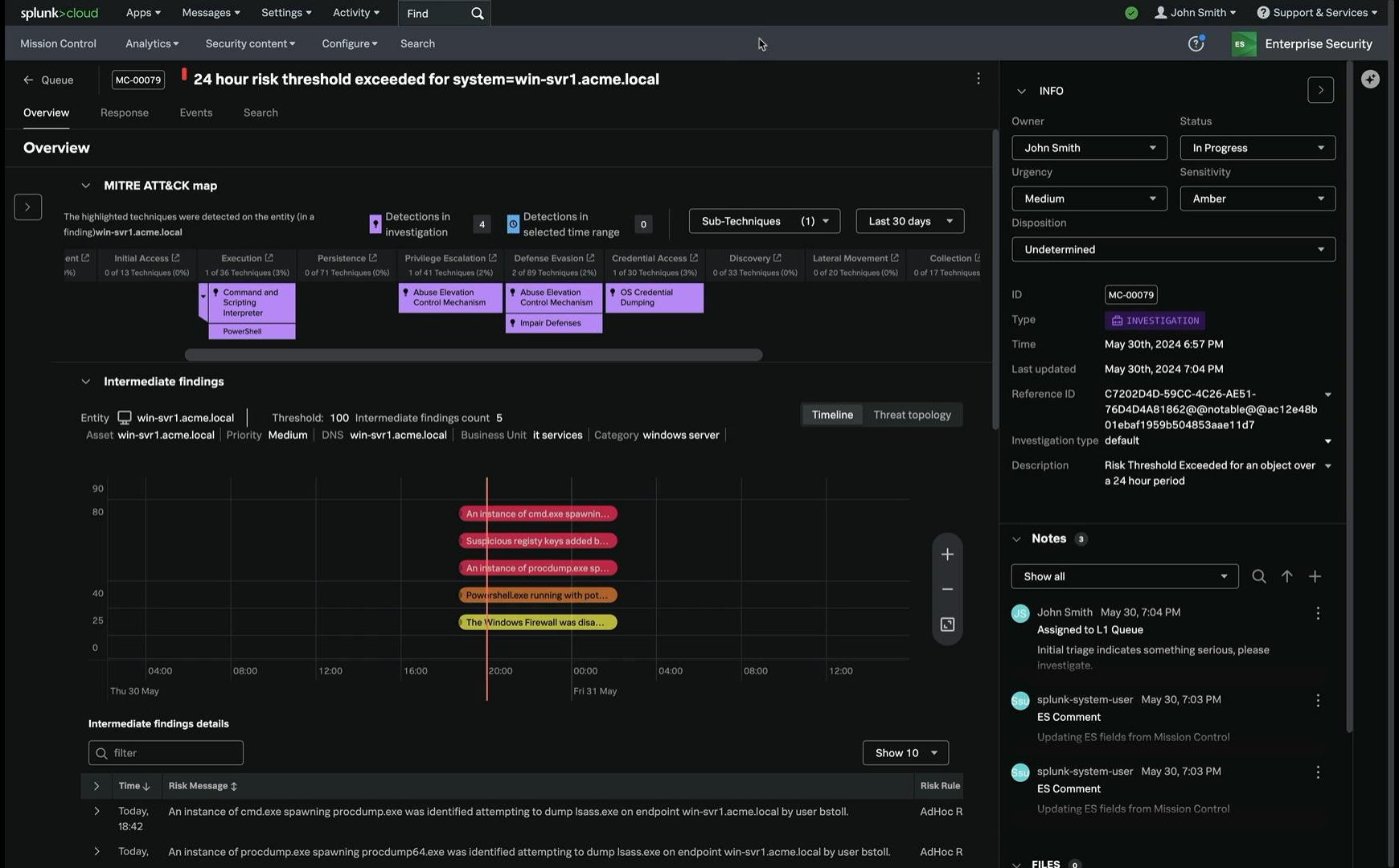
splunk>cloud
Apps
Messages
Settings
Activity
Find
John Smith
Support & Services
Mission Control
Analytics
Security content
Configure
Search
Enterprise Security
Queue
MC-00079
24 hour risk threshold exceeded for system=win-svr1.acme.local
Overview
Response
Events
Search
Overview
MITRE ATT&CK map
The highlighted techniques were detected on the entity (in a finding)win-svr1.acme.local
Detections in investigation 4
Detections in selected time range 0
Sub-Techniques (1)
Last 30 days
Initial Access 0 of 13 Techniques (0%)
Execution 1 of 36 Techniques (3%)
Persistence 0 of 71 Techniques (0%)
Privilege Escalation 1 of 41 Techniques (2%)
Defense Evasion 2 of 89 Techniques (2%)
Credential Access 1 of 30 Techniques (3%)
Discovery 0 of 33 Techniques (0%)
Lateral Movement 0 of 20 Techniques (0%)
Collection 0 of 17 Techniques
Command and Scripting Interpreter
PowerShell
Abuse Elevation Control Mechanism
Abuse Elevation Control Mechanism
Impair Defenses
OS Credential Dumping
Intermediate findings
Entity win-svr1.acme.local
Threshold: 100 Intermediate findings count 5
Asset win-svr1.acme.local
Priority Medium
DNS win-svr1.acme.local
Business Unit it services
Category windows server
Timeline
Threat topology
An instance of cmd.exe spawnin...
Suspicious registy keys added b...
An instance of procdump.exe sp...
Powershell.exe running with pot...
The Windows Firewall was disa...
Thu 30 May
Fri 31 May
Intermediate findings details
filter
Show 10
Time
Risk Message
Risk Rule
Today, 18:42
An instance of cmd.exe spawning procdump.exe was identified attempting to dump lsass.exe on endpoint win-svr1.acme.local by user bstoll.
AdHoc R
Today,
An instance of procdump.exe spawning procdump64.exe was identified attempting to dump lsass.exe on endpoint win-svr1.acme.local by user bstoll.
AdHoc R
INFO
Owner
John Smith
Status
In Progress
Urgency
Medium
Sensitivity
Amber
Disposition
Undetermined
ID
MC-00079
Type
INVESTIGATION
Time
May 30th, 2024 6:57 PM
Last updated
May 30th, 2024 7:04 PM
Reference ID
C7202D4D-59CC-4C26-AE51-76D4D4A81862@@notable@@ac12e48b01ebaf1959b504853aae11d7
Investigation type
default
Description
Risk Threshold Exceeded for an object over a 24 hour period
Notes
Show all
John Smith May 30, 7:04 PM
Assigned to L1 Queue
Initial triage indicates something serious, please investigate.
splunk-system-user May 30, 7:03 PM
ES Comment
Updating ES fields from Mission Control
splunk-system-user May 30, 7:03 PM
ES Comment
Updating ES fields from Mission Control
FILES

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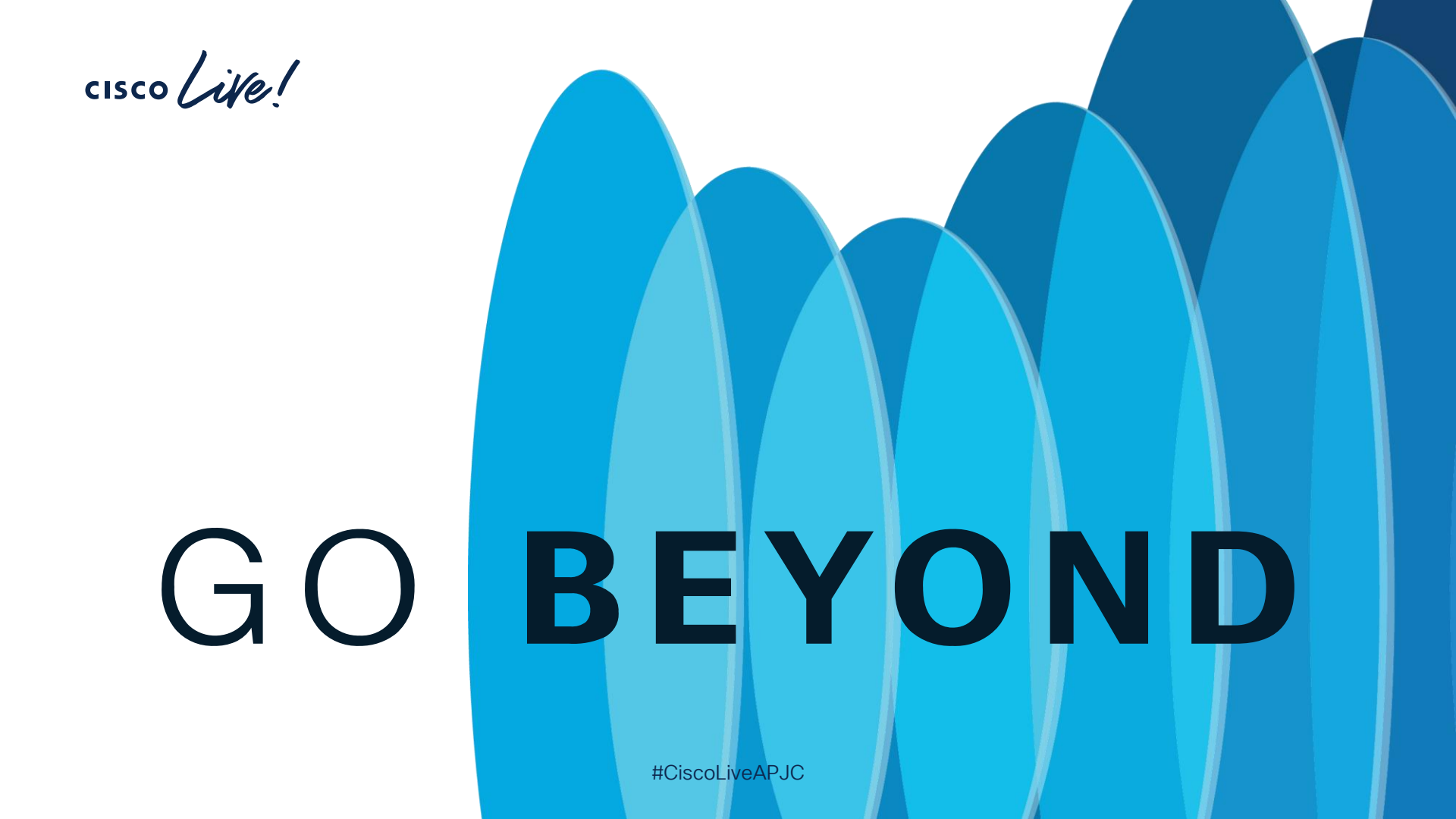
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