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Splunk for Enterprise Security featuring
User Behaviour Analytics

SplunkLive Sydney 2016 Vlado Vajdic, Sr SE

whoami

- > Vlado Vajdic vlado@splunk.com
 - 1 year as a Splunk Sales Engineer
 - 15+ years in IT security
 - Trend Micro, RSA, ..., Sun Microsystems
 - First used Splunk in 2010
 - GCFA, but don't take this against me

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Agenda

Splunk Security Update

Enterprise Security 4.2

User Behavior Analytics 2.3

Data Breaches in Australia

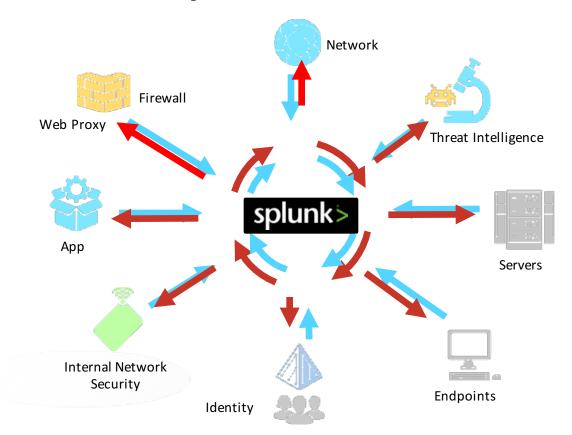


2016 Cost of Data Breach Study

- The cost of a data breach continues to rise: \$158 per record
- The largest component of the total cost of a data breach is lost business
- "Time to Identify" and "Time to Contain" a data breach is critical
- Malicious or criminal attacks were the primary root causes of a data breach.
- Average total cost of data breach in Australia is \$2.64 million
- Key factor to reduce the cost of a data breach is enabling incident response
- Data breaches in regulated industries are more costly

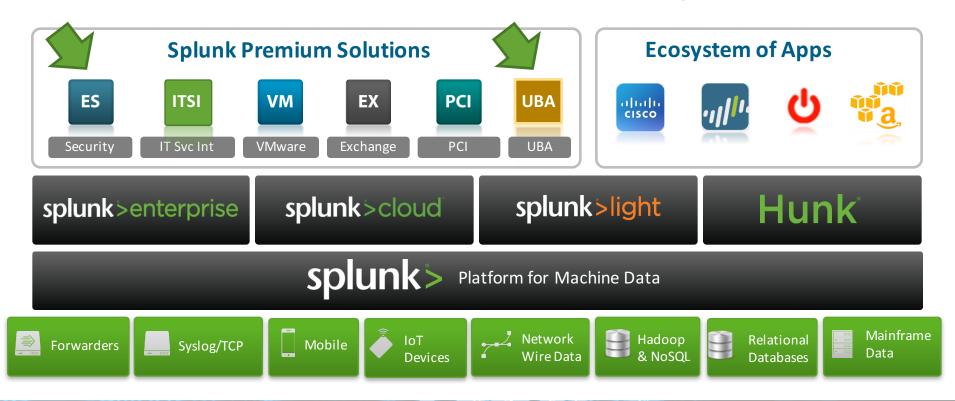


Splunk: the Security Nerve Center for the Enterprise



Splunk Solutions

Across Data Sources, Use Cases and Consumption Models



Splunk for Security











SPLUNK UBA

SPLUNK ES

Splunk Security Ecosystem



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Splunk Enterprise Security

Analytics-driven Security



Monitor and Detect Threats



Investigate Threats and Incidents



Optimize Response using Workflows



Security and Compliance Reporting

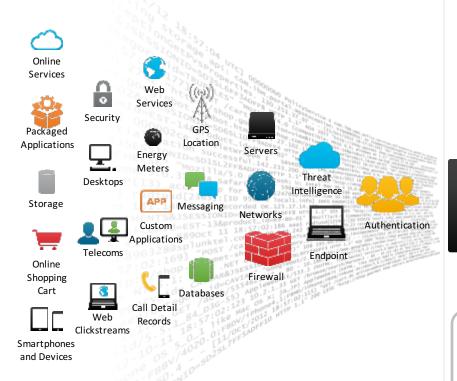


splunk>enterprise

splunk>cloud

splunk > Platform for Machine Data

Security Intelligence













Ad hoc search

Monitor and alert

Report and

Custom dashboards

Developer Platform

analyze Search-time Data Normalization

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Data Enrichment



Asset & CMDB

Employee Info Threat Intelligence

Applications

Data Stores













Splunk ES in the Gartner SIEM Magic Quadrant

- Leader (the only vendor to improve its visionary position)

- Leader

- Leader

2012 - Challenger

- Niche Player

*Gartner, Inc., SIEM Magic Quadrant 2011-2015. Gartner does not endorse any vendor, product or service depicted in its research publication and not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.



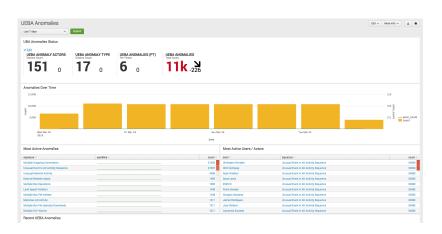


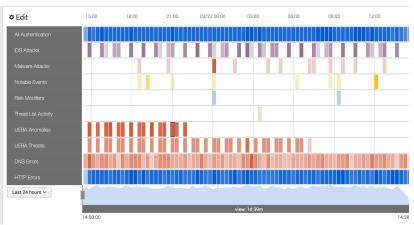
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Behavioral Analytics in the SIEM Workflow

- All UBA anomalies now available in ES
- SOC Manager: UBA Reporting within ES
- SOC analyst: UBA anomaly data available for enhanced correlation
- Hunter/Investigator: Ad-hoc searching/pivoting

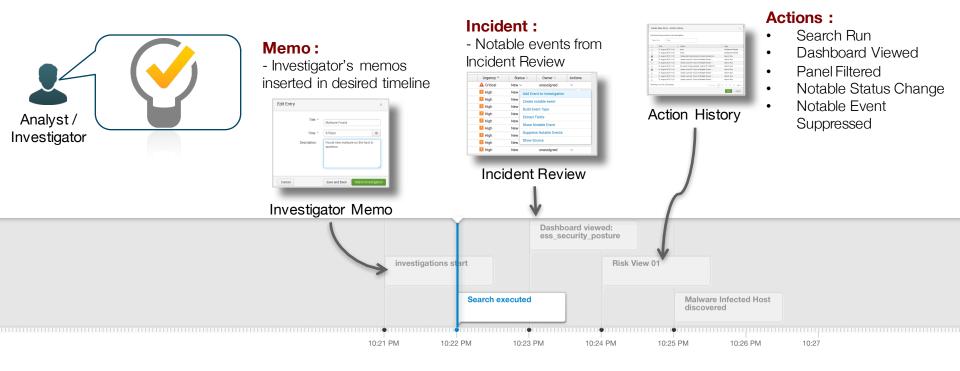




Detect and Investigate faster using ML integrated with SIEM

Attack and Investigation Timelines

Adding content to timeline:



Splunk ES - MSSP Partners

Verizon

"Splunk is enabling our next generation platform. With these new capabilities, we are arming our clients with the tools and systems necessary to shift the balance and make it harder for cybercriminals to succeed."

Vinny Lee, Director of Product Management, Verizon Enterprise Solutions.

Herjavec Group

"Splunk's solutions are cutting edge - changing the way security teams operate at every level. That is why Splunk is such a key contributor to our security operations center and managed services practice,"

Robert Herjavec, Founder and CEO, Herjavec Group.

Accenture

"Our alliance with Splunk is another strong example of how Accenture is impacting our clients' businesses with 'new IT."

Bhaskar Ghosh, Group Chief Executive, Accenture Technology Services.

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ENTERPRISE SECURITY OPS CHALLENGES



External, Insiders, Hidden And/Or Unknown



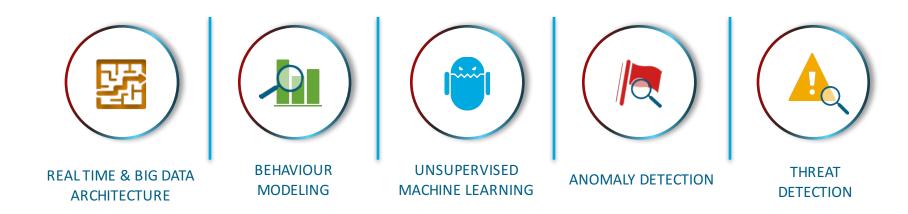
PEOPLE

Availability of Security Expertise



False Positives vs True
Positives

Splunk UBA: TECHNOLOGY

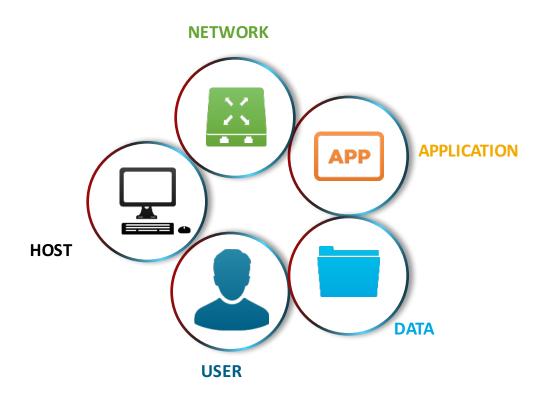


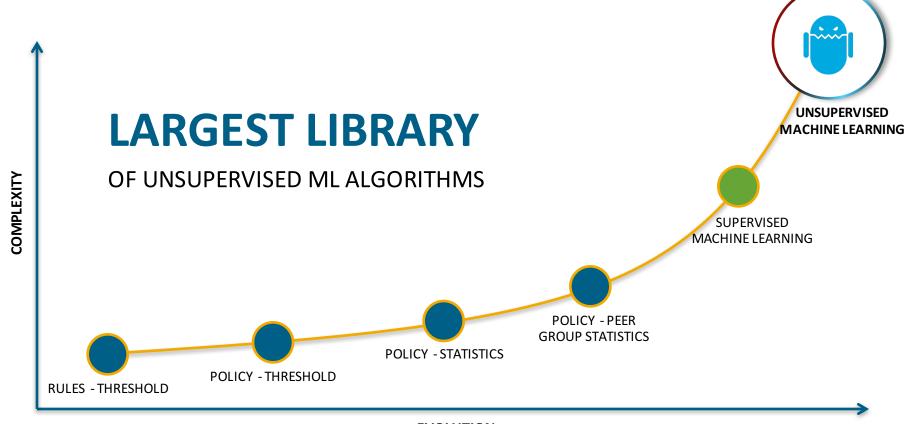


SCALABLE ARCHITECTURE

500M EVENTS/NO DE/DAY

MULTI-ENTITY BEHAVIORAL MODEL





EVOLUTION



APPLYING ML AGAINST BEHAVIOUR BASELINES

DESIGNED FOR A

HUNTER



ANALYST



ML-DRIVEN AUTOMATED
OR RULES BASED
ANOMALY CORRELATION

DESIGNED FOR A SOC ANALYST

THREATS UNCOVERED



ACCOUNT TAKEOVER

- Privileged account compromise
- Data loss



LATERAL MOVEMENT

- Pass-the-hash kill chain
- Privilege escalation



INSIDER THREATS

- Misuse of credentials
- IP theft



MALWARE ATTACKS

- Hidden malware activity
- Advanced Persistent Threats (APTs)



BOTNETs, C&C

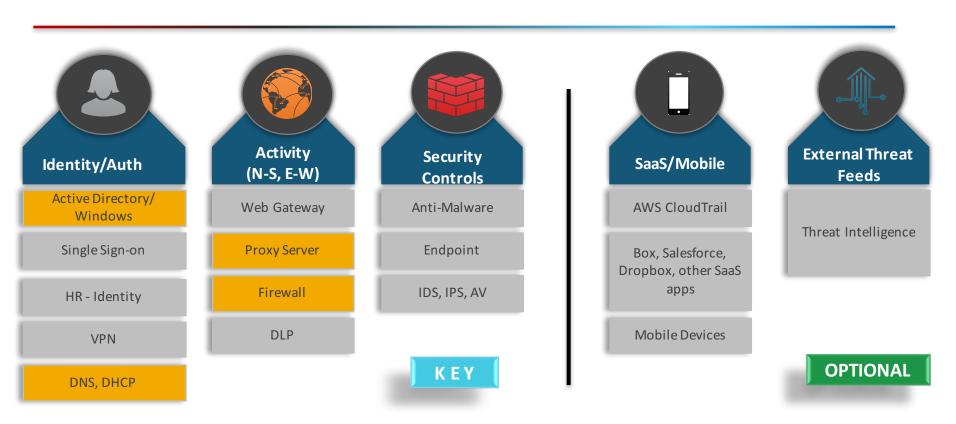
- Malware beaconing
- Data exfiltration



USER & ENTITY BEHAVIOR ANALYTICS

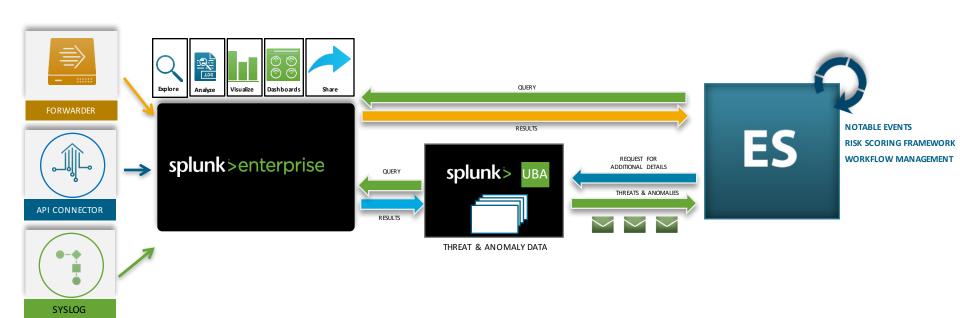
- Login credential abuse
- Anomalous behaviour

DATA SOURCES for UBA



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Data Flows: Splunk ES/UBA



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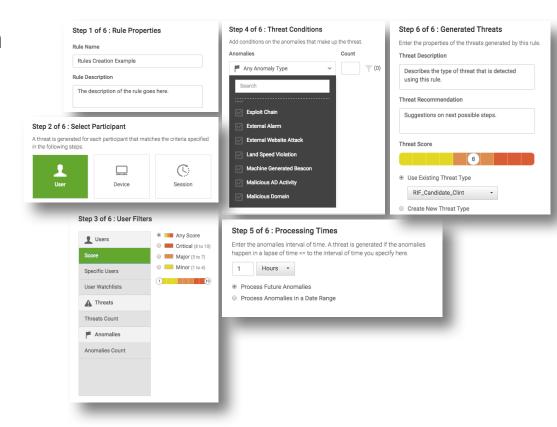


Enhanced Threat Detection

Threat Modeling Framework

Create **custom threats** using **60+** anomalies. Examples:

- Compromised Account: Accessed blacklisted domain followed by outgoing connection along with unusual geo locations
- Compromised Device: Beaconing followed by outgoing connections along with unusual geo locations

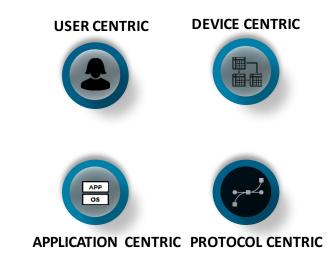


Threat Customization using ML generated anomalies

Enhanced Threat Detection



Visibility and baseline metrics for users, devices, applications and protocols, dynamic peer groups, assess the individual user risk, new/enhanced models: device model, USB activity, unusual activity time, lateral movement, and unusual file access



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SEPT 26-29, 2016

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- 35+ Apps in Splunk Apps Showcase
- 75+ Technology Partners
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