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Splunk Cloud as a SIEM for Cybersecurity Collaboration

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splunk>

Disclaimer

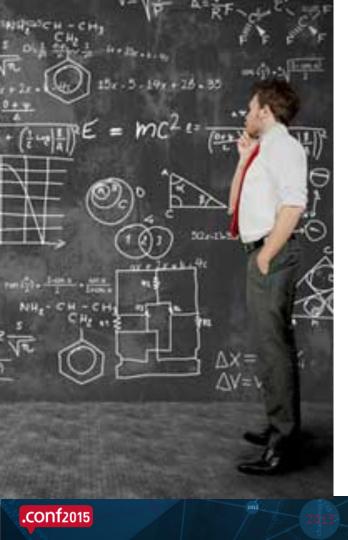
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City of Los Angeles



- 4 million people, 465 sq mi, 15-Council District
- 2nd largest city in the US
- 1.8 million employed
- 42.2 million annual visitors
- 42 departments with 35,000 FTE
- Port of LA, Airport, Water and Power 3 proprietary departments all managing their own networks
- Information Technology Agency (ITA) manages the rest



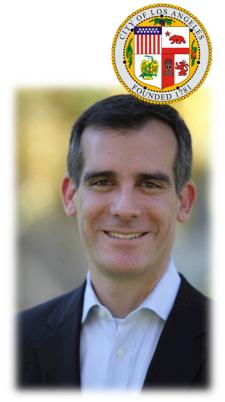
Our Challenge



- IT Security Team is understaffed
- Dispersed log capturing capabilities
- Minimal use of collaboration tools
- Lack of Incident Management platform
- No integrated threat intelligence program
- Limited situational awareness and operational metrics for City as a whole
- Imbalance in response capability
- Growing cyber threats including DDoS & Malware

Mayor's Executive Directive on Cybersecurity

- Facilitate the identification and investigation of cyber threats and intrusions against City assets
- Ensure incidents are quickly, properly, and thoroughly investigated by the appropriate law enforcement agency
- Facilitate dissemination of cybersecurity alerts and information
- Provide uniform governance structure accountable to City leadership
- Coordinate incident response and remediation across the City
- Serve as an advisory body to City departments
- Sponsor independent security assessments to reduce security risks
- Ensure awareness of best practices



Our Solution

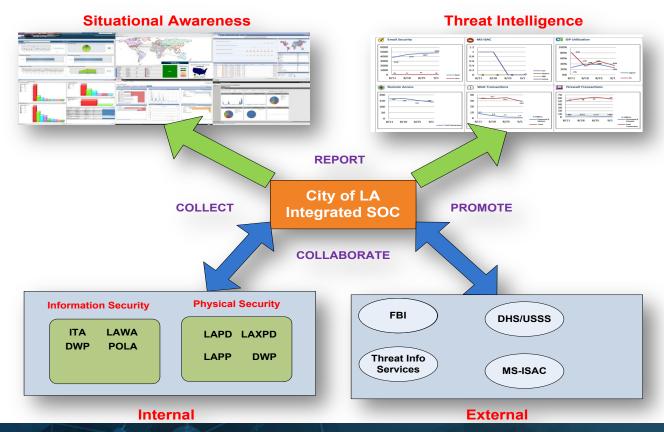


Integrated Security Operations Center

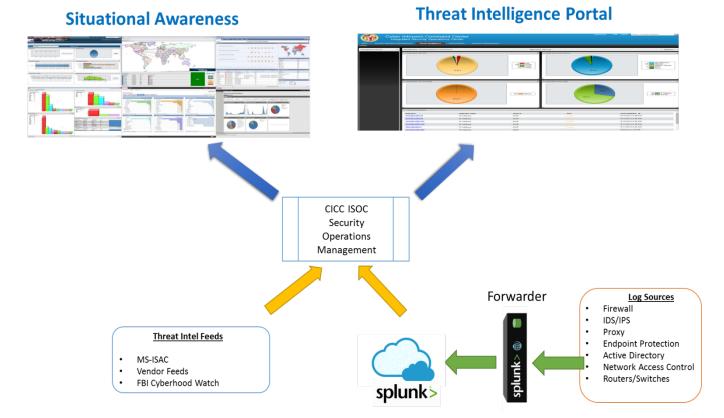
Leveraging Splunk Cloud and Splunk Enterprise Security



Integrated Security Operations Center



Integrated Security Operations Center

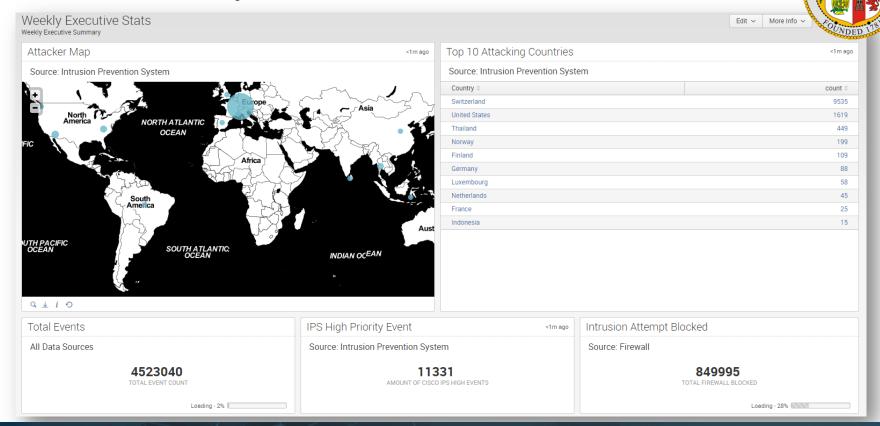


How Did We Sell It Internally?



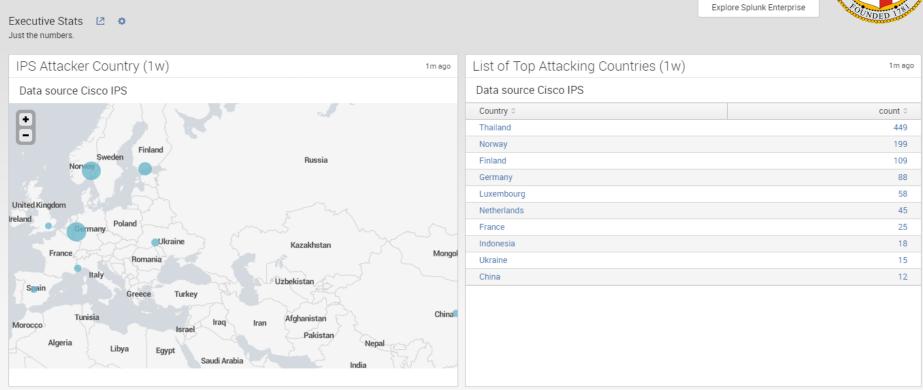
- Prepare to answer why you need SIEM and why cloud-based
 - Security Audit Report (Recommendation and Action Plan)
 - Compliance Gap Assessment Report
 - Security metrics (numbers of intrusion attempts, incidents, outages caused by incidents, top attackers, threat activity and trends etc.)
 - Present it from the business risk perspective
- Engage others outside of IT to also help sell it
- Provide potential risks of not implementing SIEM
- Share real-world examples of cyber incidents and costs that your audience can relate to
- Provide source of funding for implementation and operations
- Align results to organizational goals

Example: Executive Dashboards

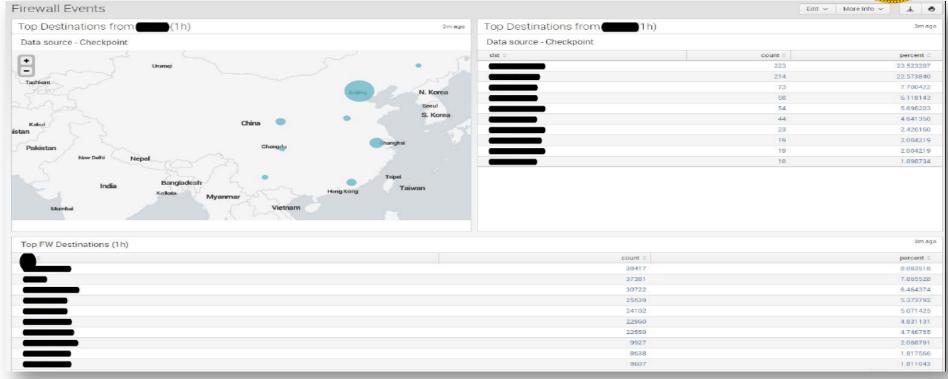


Use Case Example: Top Attackers

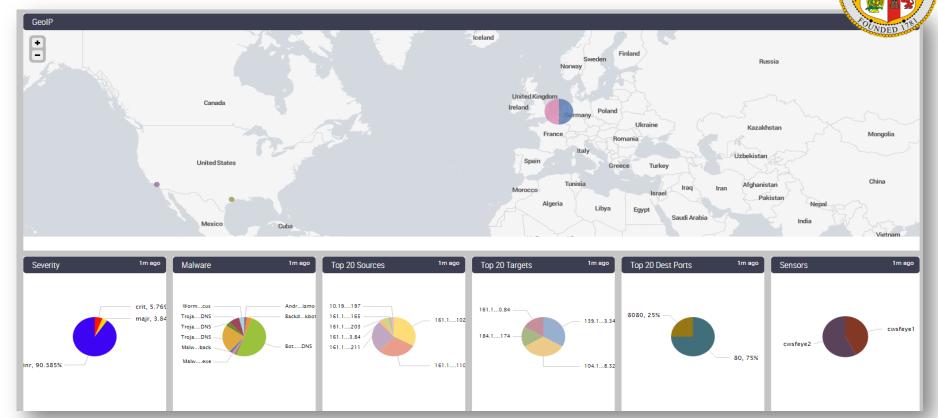




Use Case Example: Top Destination By Specific Attacker



Use Case Example: Malware Monitoring



Lessons Learned



- Conduct SOC readiness assessment before anything else
- Prepare to answer why you need CSOC
- Look for grant opportunities
- Pick the right tools and technology
- Be mindful of operating costs
- Pick the right contractor
- Pick the right team. Invest in people.
- Cybersecurity collaboration and information sharing are essential

Resources



- Security Operation Center Concepts & Implementation
 - Renaud Bidou
- How to Deploy SIEM Technology
 - Gartner March 02, 2015
- Using SIEM for Targeted Attack Detection
 - Gartner March 12, 2014
- Top 6 SIEM Use Cases
 - Infosecinstitute.com May 15, 2014



