Welcome to Tomorrow ... Today The need and benefit of merging of IT and Security in today's ever connected world of security and IT

Tim Lee CISO, City of LA Ernie Welch

Sales Engineer, Splunk

.0.375.38 Safari/53

.conf2016

splunk>

Disclaimer

During the course of this presentation, we may make forward looking statements regarding future events or the expected performance of the company. We caution you that such statements reflect our current expectations and estimates based on factors currently known to us and that actual events or results could differ materially. For important factors that may cause actual results to differ from those contained in our forward-looking statements, please review our filings with the SEC. The forward-looking statements made in the this presentation are being made as of the time and date of its live presentation. If reviewed after its live presentation, this presentation may not contain current or accurate information. We do not assume any obligation to update any forward looking statements we may make. In addition, any information about our roadmap outlines our general product direction and is subject to change at any time without notice. It is for informational purposes only and shall not, be incorporated into any contract or other commitment. Splunk undertakes no obligation either to develop the features or functionality described or to include any such feature or functionality in a future release.

City of Los Angeles

- 2nd largest city in U.S
- Population: 4 Million
- Annual visitors: 43 Million
- 43 departments, 35,000 FTE
- Critical Infrastructure Sectors





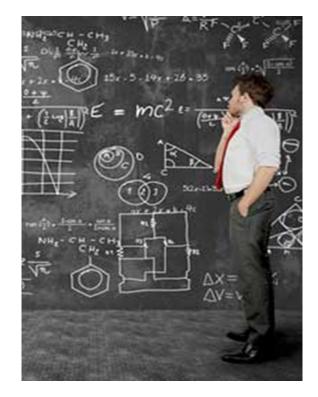
Mayor's Executive Directive on Cybersecurity

"I'm creating this <u>Cyber Intrusion Command Center (CICC)</u> so that we have a single, focused team responsible for implementing enhanced security standards across city departments and serving as a rapid reaction force to cyberattacks," <u>Mayor Eric Garcetti</u>



Challenges

- "Siloed" SOCs/NOCs
- Dispersed and massive log capturing
- Lack of centralized Incident Management capabilities
- No threat intelligence analysis and sharing platform
- Limited Situation Awareness (SA) and security metrics city-wide

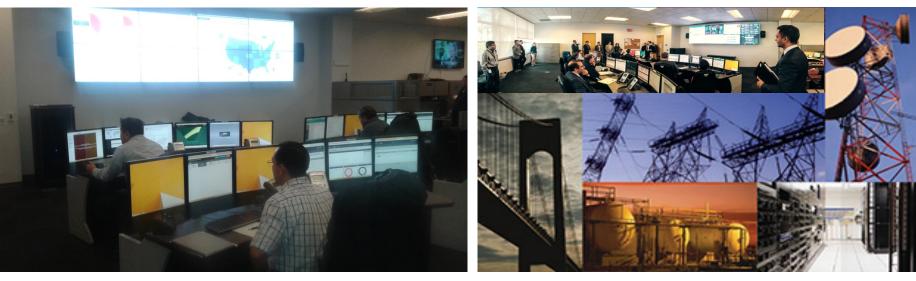




Solution

Integrated SOC

Critical Asset Protection (CAP)





CRITICAL INFRASTRUCTURE SECTORS



Agriculture and Food



Commercial Facilities



Dams



Energy



Information Technology



Postal and Shipping



Banking and Finance



Communications





Defense Industrial Base



Government Facilities

National Monuments and lcons





Transportation





Chemical



Critical Manufacturing



Emergency Services



Healthcare and Public Health



Nuclear Reactors, Materials and Waste



Water



Critical Asset

A "Critical Asset" is defined as any system, whether physical or virtual, so vital to the City of Los Angeles and its citizens, that the incapacity or destruction of such systems, or the unauthorized access and/or dissemination of the information contained therein, would have a debilitating impact on the City's security, economic security, public health or safety, or any combination of those matters.

Integrated SOC

Situation Awareness / Threat Intelligence Sharing

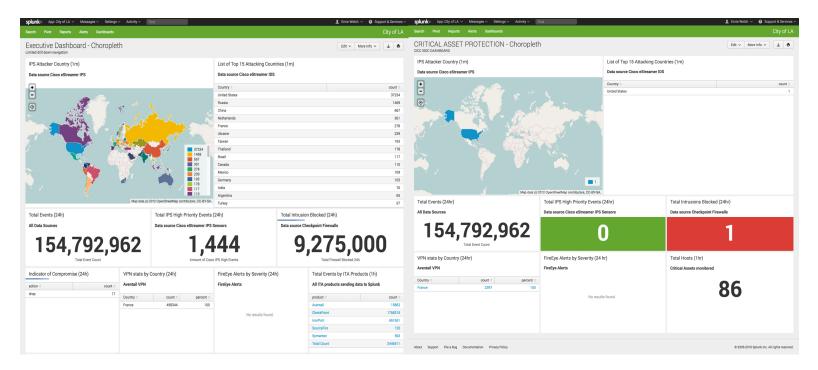
Protection Asset Critical





Enterprise Security

ES and a bifurcated ISOC dashboard



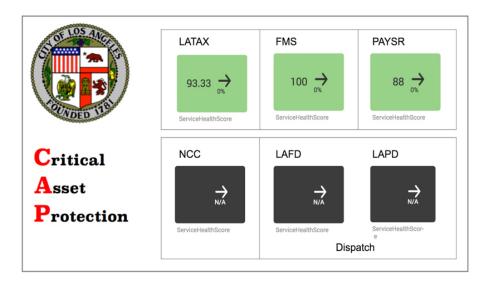


Current Deployment

- We've deployed 5 of the 43 departments within City of LA
- We're modeled 38 Services
- We've created 30 individual glass tables
- We're monitoring 160 KPI's
- We've enabled ML for anomaly detection / adaptive thresholds
- We're using Multi-KPI Alerting for advanced notifications



Role Based Access Control



splunk> .conf2016

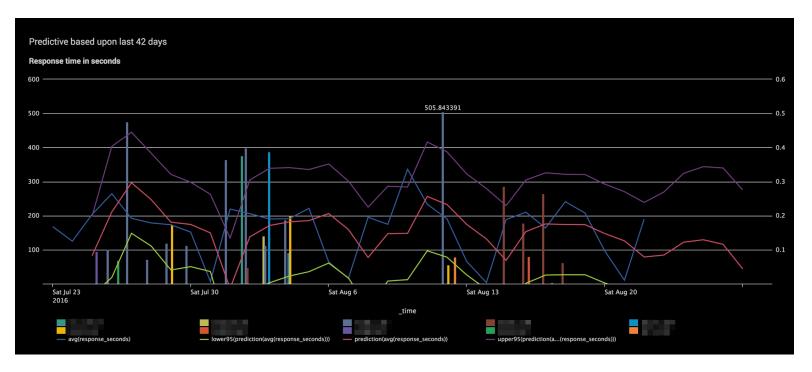
♨

Using multi glass tables



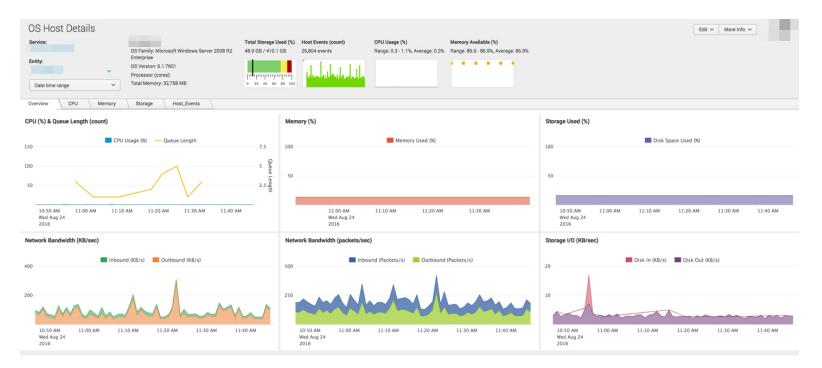


Leveraging core dashboards from ITSI





Deep Dives and OS Host Details

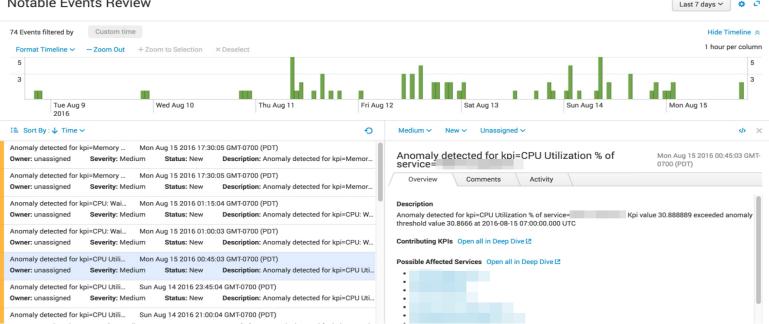




Tomorrow...Today

ITSI multi-KPI Alerts and Notable Events

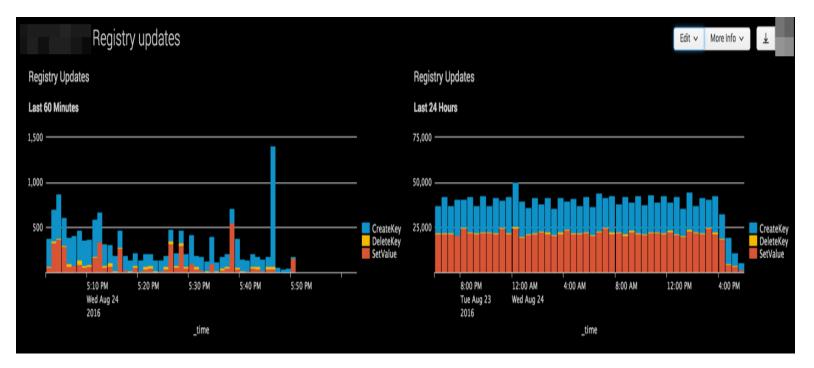
Notable Events Review





ITSI & Security

Starting to tie it all together





Lessons Learned

- Start getting events into Splunk ASAP
- Engage Business Service SME's early
 - DB Servers
 - Web Servers
 - App Servers
- Leverage KPI Base Searches much more efficient
- Leverage Threshold templates Saves time, builds standards



What Now?

Related breakout sessions and activities...



THANK YOU



