Tame the Beast of IT Complexity: AI, ML, & **Automation Are the Answer**

Rob Kelsall VP Sales Engineering | Resolve





Forward-Looking Statements

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 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.

Splunk, Splunk>, Listen to Your Data, The Engine for Machine Data, Splunk Cloud, Splunk Light and SPL are trademarks and registered trademarks of Splunk Inc. in the United States and other countries. All other brand names, product names, or trademarks belong to their respective owners. © 2019 Splunk Inc. All rights reserved.

Agenda

- 1. Introduction to AI & ML
- 2. It starts with : CMDB
- 3. Incident/ Event Correlation
- 4. Change Management
- 5. Automated / Guided Response

Introduction

Al & Machine Learning





Al: The Hype

▶ I want to buy some Al...

You don't "buy" Al

Al took my job!

Al helps us to repurpose

I need AI to succeed

Alignment to objectives

I fear Al

Rise of the machines?

Al: Reality Impacts to IT Operations



Machine Learning (ML),
Natural Language
Processing (NLP),
Analytics



Al at its best when its augmentative



Time to value, reductions in MTTI/

Impact to CMDB

Arguably where the journey starts





"Without an accurate CMDB its near impossible to correctly visualize correlated events and alarms."

See Blog

CMDB

Getting it right!



Who has a single CMDB?

- Maturation timeline
 - Basic discovery populating CMDB
 - Key business services mapped
 - Manual risk assessment
 - Automated dependency mapping
 - Application level signatures



CMDBImpacts







Application signatures



Correlation/ Visualization



Single Source of truth

Correlation

Incident / Event Correlation & Noise Reduction





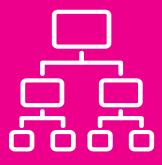
"78 percent of CIOs and senior IT leaders are already looking to AI to address complexity, and by 2019, 30 percent of IT service desks will utilize machine learning to free up support capacity"

Gartner, 2017

Who's doing some level of Event Correlation using AI today?

Correlation

Incident/ Event
Correlation & Noise
Reduction



Maturation journey:

- Event grouping these are all the same things
- Event clustering these things typically happen together
- Predictive Event management if X happens, followed by Y, then Z will probably happen
- Mapping/ Visualization this happening on network device 1, will have impact on connectivity for Sever A and have an outage for application B



Correlation

Impacts



Noise reduction



Clustering



Predictive

Change Management

Automated impact analysis





Change Management

Automated Impact
Analysis



Who always follows change requests process? PSPLUNK INC.

- Sometimes we just want to get things done...
 - Retrospective change at best, sometimes not record
 - If we follow the process, our MTTI/ MTTR will likely increase
 - Regulatory impact VS service Uptime

- I know what the problem is but when can I make the change?
 - What other CI's are impacted by this change?
 - Who's the business owner and how to notify them?
 - Is there a pre defined change window?
 - Impact analysis



Change Management Impact



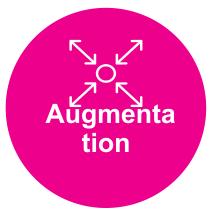
Enforces the process



Updates to disparate systems



Last time I did this it worked – de risk



Helps us to visualize situations

Automated Response

Path to self healing





"...barrage of service alerts from multiple sources. Becomes very difficult to get a single view...multiple teams being dragged on to a conference call..."

Nick Mayes, PAC Blog

Automated Response

Path to Self-Healing IT



Who's incorporating automation with their Splunk tools today?

Path to success:

- Automated the simple stuff this is where lots of organizations start and finish
- Guided/ Interactive procedures
- Automated diagnostics
- Adaptive Response
- Self Healing

Triggers:

- Conversational AI/ Chat with end user
- Request process in ITSM platform
- Event management Splunk toolsets
- Predictive AIOPS

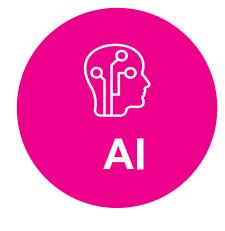


Automated Response

Impact



End to End and guided, moving toward adaptive



Conversationa I AI



Request Management



Root cause identification and KB / process mapping

Summary

Conclusions





"Al and ML do not provide a silver bullet in any single aspect of a service desk implementation."

Ari Stowe, CLEAR 19

Key Takeaways

Impact of AI and ML on IT Operations



- 1. Break down silos and drive an automation program
- 2. IT Operations
 - Discovery and CI Mapping
 - Correlate events and alarms with Visualization
 - Proactive incident avoidance
 - Automated detection and response
 - Stay compliant
- 3. Al and ML technology will fundamentally change how IT operates



Q&A

Visit Resolve for more information : Venetian Sands Expo Hall C | Booth #122

Email: robert.Kelsall@resolve.io

Linkedin: Rob Kelsall







conf19 splunk>

Thank You!