

Splunk as a Tool for DevOps Acceleration

Josh Atwell
Sr Technology Advocate | Splunk



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DevOps Adoption

And Where it Stalls





New Customer Demands are Driving Change

Scenario Survive or Thrive?



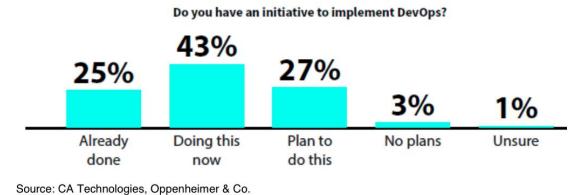




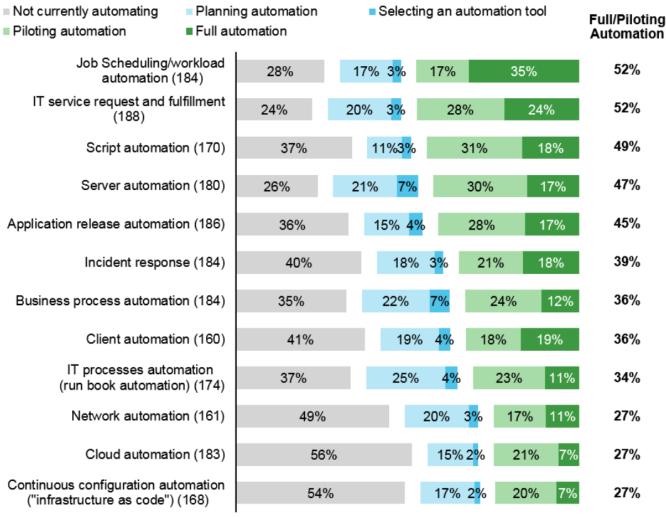
DevOps is Here

Automation a leading Indicator

- Automation adoption across environment and value stream
- Adoption in various stages



Phase of automation by type

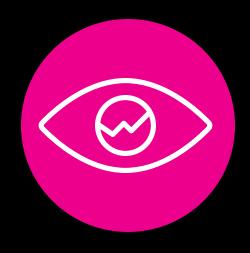


Source: Gartner, Openheimer & Co

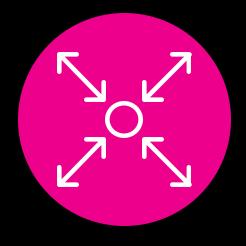


Common DevOps Evolution Points

Focus Areas to Minimize Adoption Stalls



Platform Stability and Transparency



Process Maturity and Collaboration



Value Stream Optimization

Phase 1 – Early Wins

How to get some quick wins





Scenario

Too Fast to Deploy



Ops Behind Pace

Development Speed Outpacing Ops

Agile

New Features become Inventory

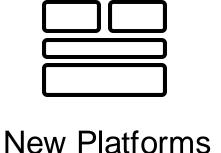
New IT Services

New Services and Environments

New Operating Models for IT



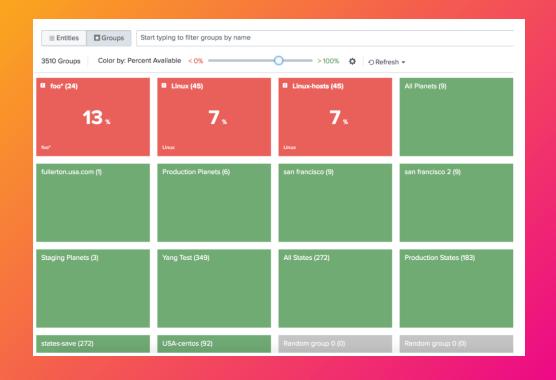
Stability and Visibility First







Speed without Stability is Perilous



APP OS











APP os





kubernetes

Splunk and Platforms

Virtualization and Containers

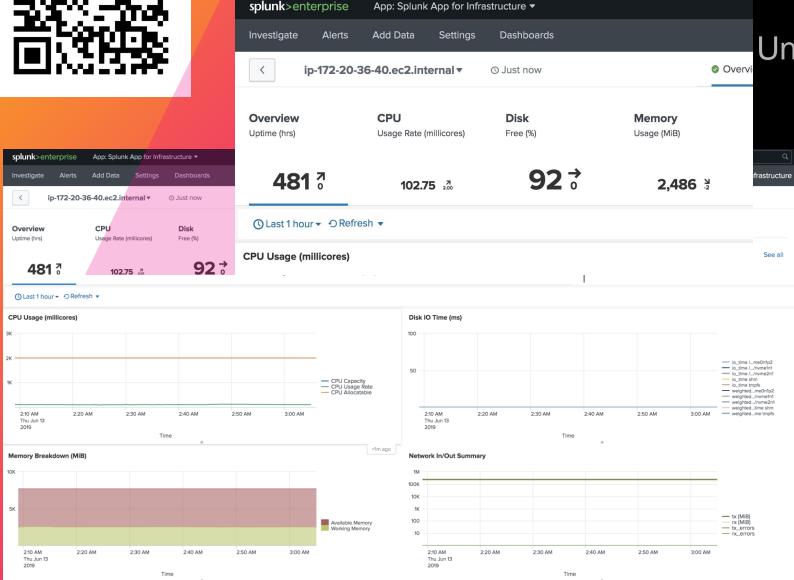
- Infrastructure & Orchestration layer
- Foundation for Supporting Applications & Developers
- Application modernization is iterative
- Still a reliance on Infrastructure stability



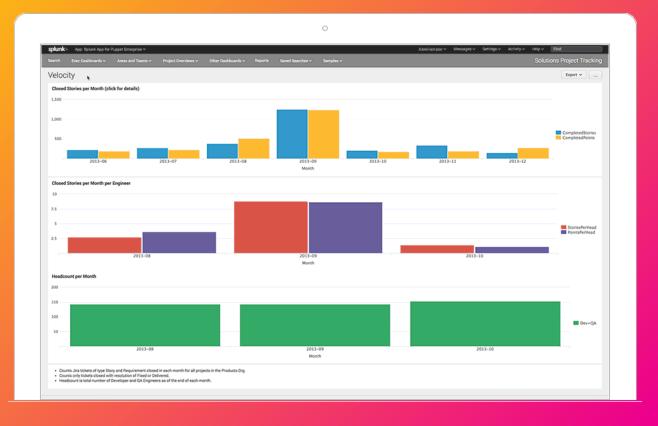


Splunk App for Infrastructure

Understand your foundation



- Monitor Infrastructure Behavior
- Identify Issues quickly and troubleshoot
- Unified approach virtual machines and containers



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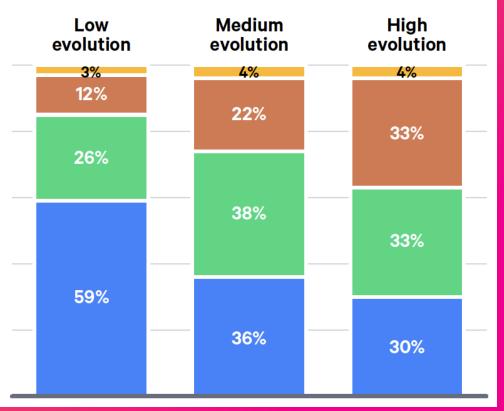
Infrastructure Automation Toolchain

- Code Defines Infrastructure
- Code Stabilizes Infrastructure
- Code is easier to track than humans.

Sharing by evolutionary scale

Patterns and best practices are shared ...

- ... outside the organization.
- ... across the organization.
- ... across teams.
- ... among individuals within teams.



Empower Others with Knowledge

- Successful Evolution begins with Sharing information
- If Others can't see it;
 They can't help

Phase 2 – Process Maturity

Change the way you Operate



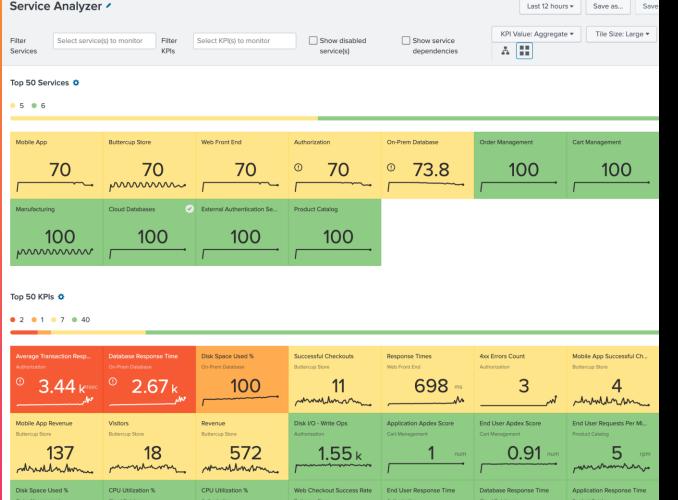




Service Level Monitoring Understanding Overall Health

- Distributed apps = Move to Service Level Objectives
- Empower transition to SRE model
- Predictive analytics







Database On-Call Schedule Rotations Scheduled Overrides Escalation Policies On-Call Schedule View who is on-call for each of your team's escalation policies. Global Response Currently on-call: @galeboetticher, @baxter Today - Oct 24, 2019 A There are no routing keys for this policy - it will only receive incidents when escalated to by another policy. Set Up Routing @baxter _ 0 Yours Teams Acked Resolved Sort: Newest m #13290 Triggered Amazon CloudWatch: [Warn on {server:10.10.10.100: Tech Ops : App Alerts 1 Annotation △ 4 Alerts iason 4:00 PM Splunk: Splunk Alert - Fleetwood Bounder CRITICAL hubot fire in the hole VictorOps (hubot) BOT 4:00 PM Ok, firing in the hole! New Relic: Monitor failed for location S?o Paulo, BR -Operations Support 2 Annotation △ 3 Alerts iason 4:01 PM hubot ack 33965 VictorOps (hubot) BOT 4:01 PM Acking incident33965

Incident Response

Joining People and Information

- ▶ Turn Data into Doing
- Bring in the right Experts Dev, Ops, SRE
- Automate Remediation
- Dramatically Reduce MTTR





Integrations 3rd Party Integrations **Outgoing Webhooks** Featured integrations Q Search Categories Nagios / Nagios XI Already enabled APM Communication **Delivery Insights** Splunk ITSI Splunk for Infrastructure **Enterprise Suites** Splunk **Error Tracking** Generic Helpdesk Software All integrations Live Call Routing Log Management AlertSite **AppOptics** Outgoing Notifications **Project Tracking** Specialized Tools iason 4:00 PM Splunk Mobile APM System Monitoring hubot fire in the hole Time Series VictorOps (hubot) BOT 4:00 PM Ok, firing in the hole! jason 4:01 PM hubot ack 33965 VictorOps (hubot) BOT 4:01 PM Acking incident33965

VictorOps BOT 4:01 PM

ACKNOWLEDGED - Incident #339

Toolset Integration

Knowledge and ChatOps

- Native integration to knowledge and tracking tools.
- Automate response through your team messaging tools

Phase 3 – Value Stream Maturity

Identify Constraints - Optimize





Scenario

Where is the Bottleneck?



Ops Behind Pace

Developer Velocity has Increased

Agile Development

Bottlenecks exist, Unclear where

New Services Toolchain Outages halt Development

NewOps

Operating Model Applied to Toolchain

























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SDLC Optimization

How Fast and Well are you Moving?

- Centralized view of value stream health
- Developer Tool Monitoring
 - When these tools are not working, neither are developers



Key Takeaways



Stabilize platforms and share information

Change the way you operate

Learn to operate new toolchain

Optimize the value stream

Learn More at NewOpsDays.org



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