Splunk as a Tool for DevOps Acceleration

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DevOps Adoption

And Where it Stalls

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Scenario

Survive or Thrive?

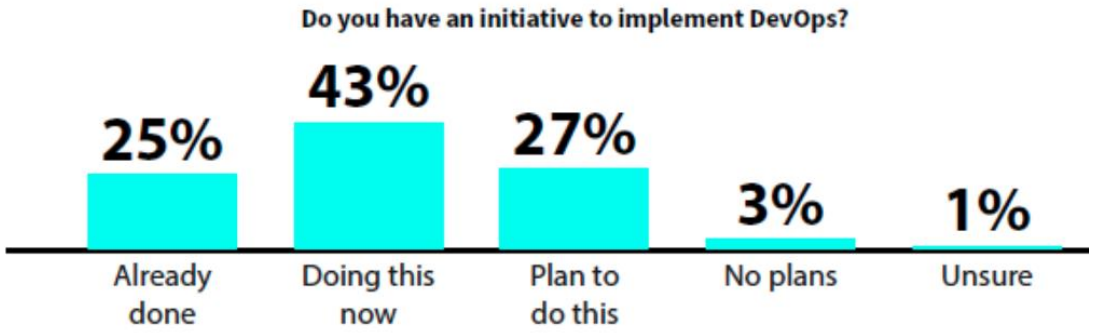
New Customer Demands are Driving Change

- New Expectations
- New Technologies
- New Devices
- New Data Streams

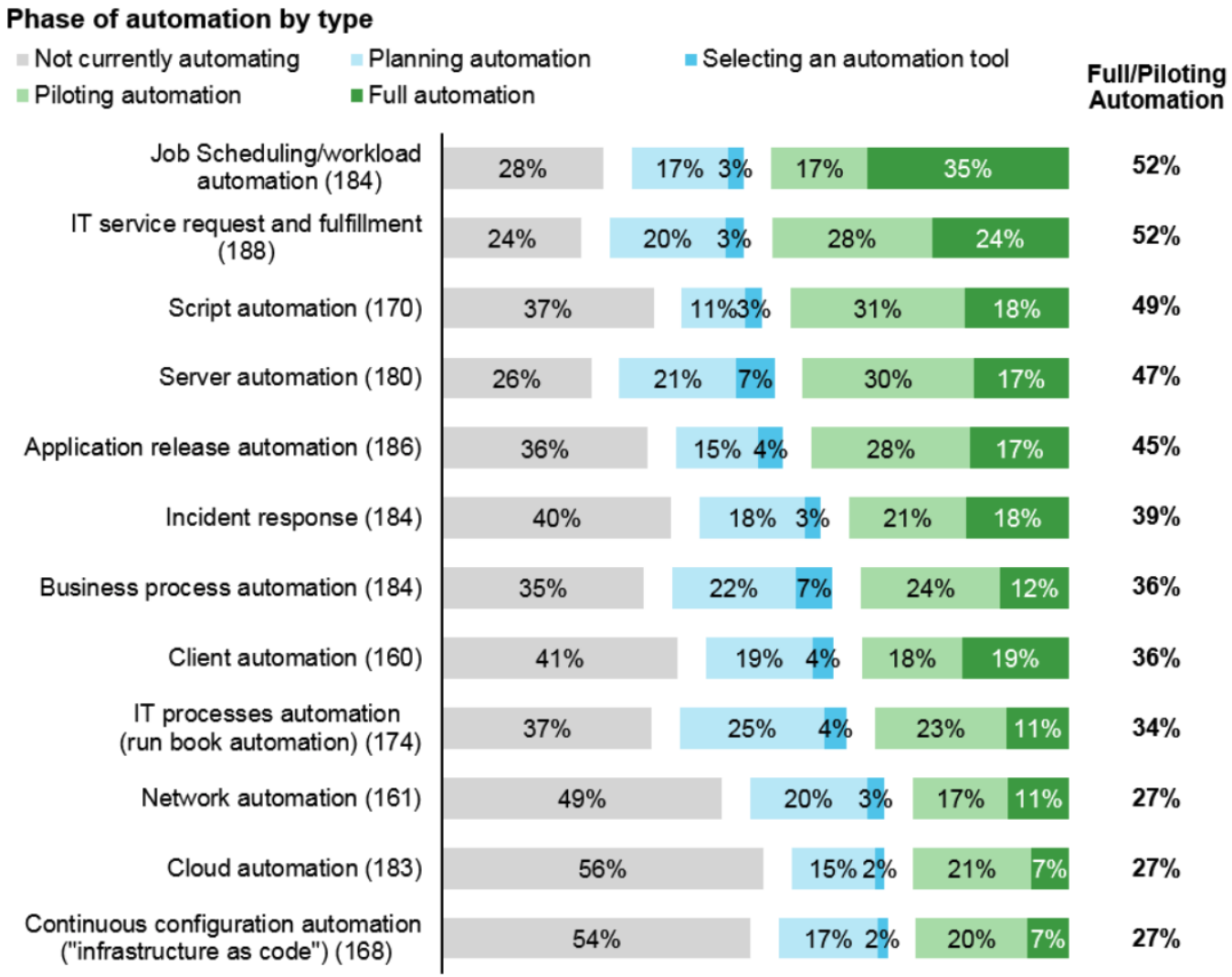
DevOps is Here

Automation a leading Indicator

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



Source: CA Technologies, Oppenheimer & Co.



Source: Gartner, Openheimer & Co

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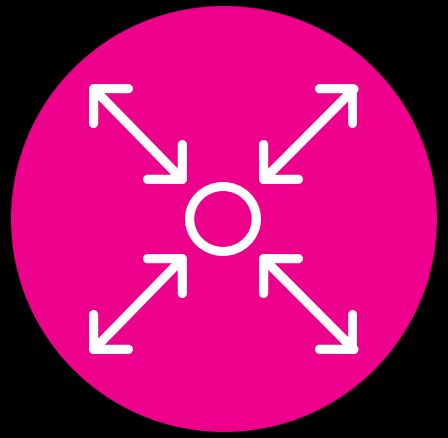
Common DevOps Evolution Points

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

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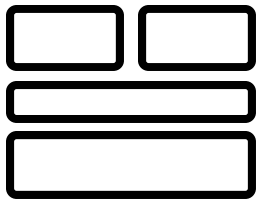
Scenario

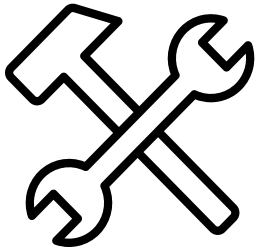
Too Fast to Deploy

- **Ops Behind Pace** — Development Speed Outpacing Ops
- **Agile Development** — New Features become Inventory
- **New IT Services** — New Services and Environments
- **NewOps** — New Operating Models for IT

Stability and Visibility First

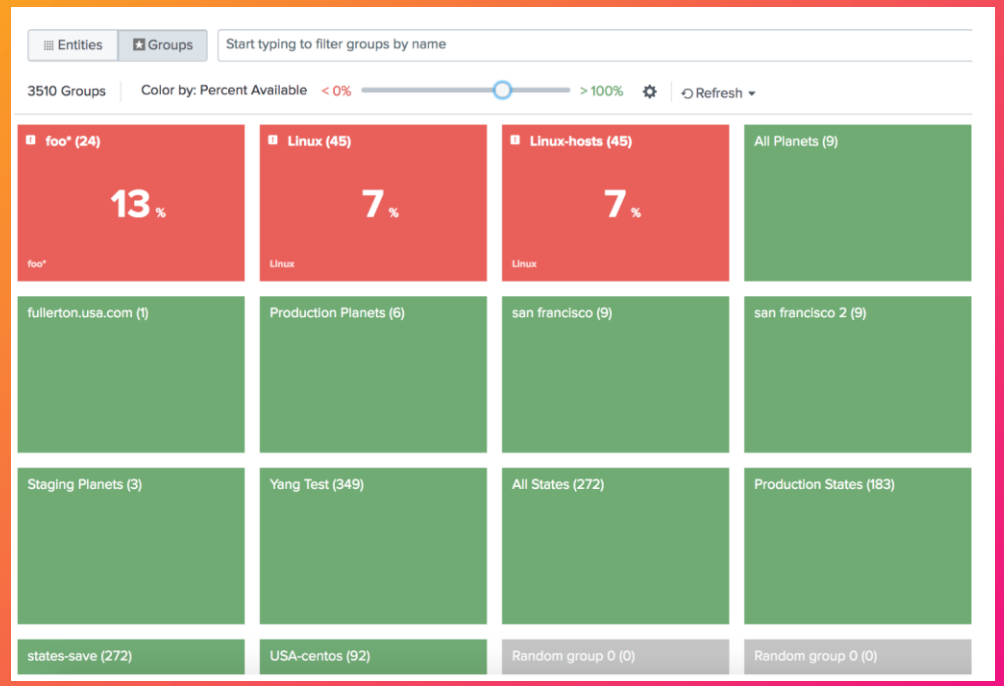


New Platforms



Enabling Toolchain

Speed without Stability is Perilous



vmware

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

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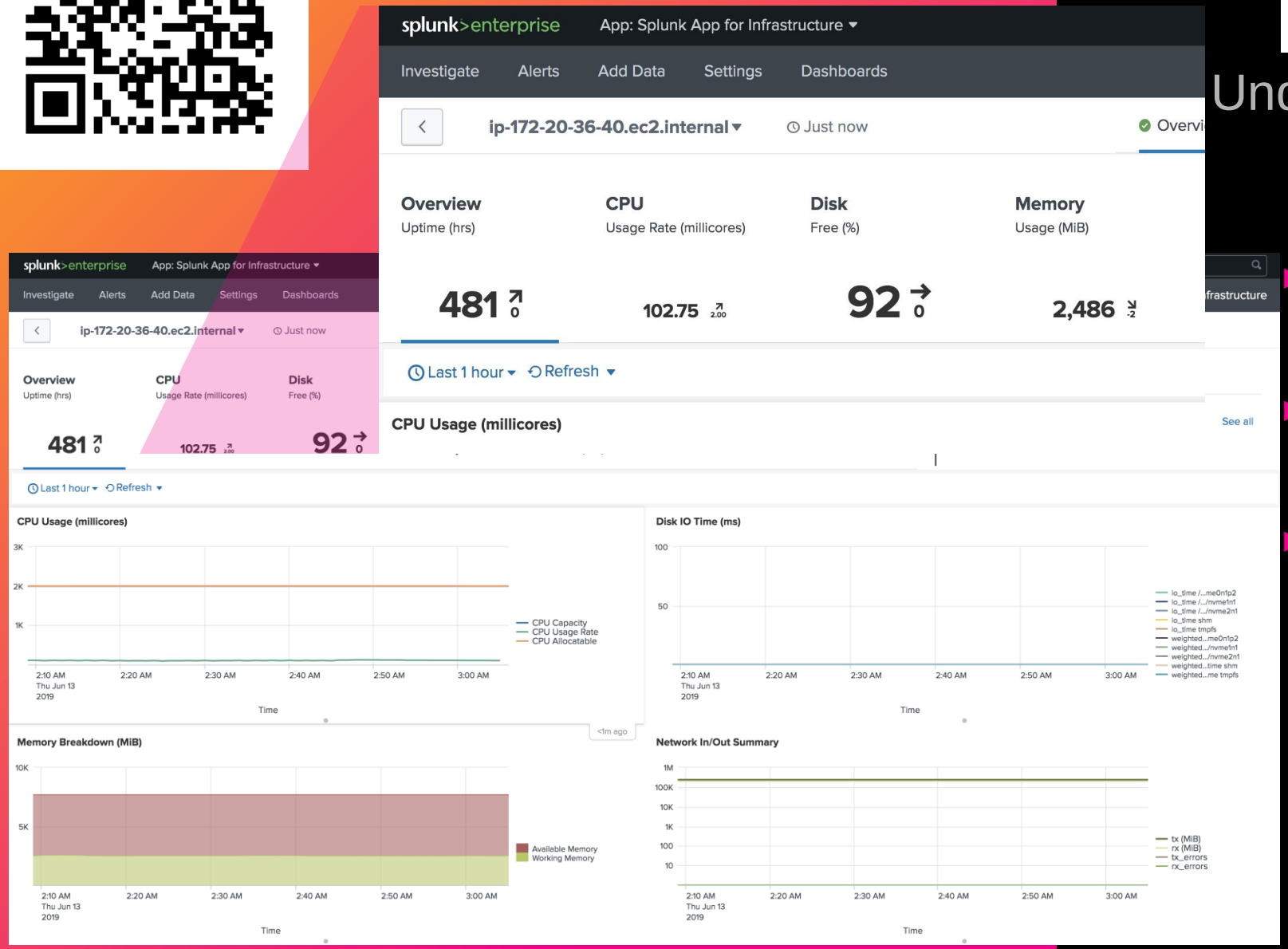
Splunk App for Infrastructure

Understand your foundation



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

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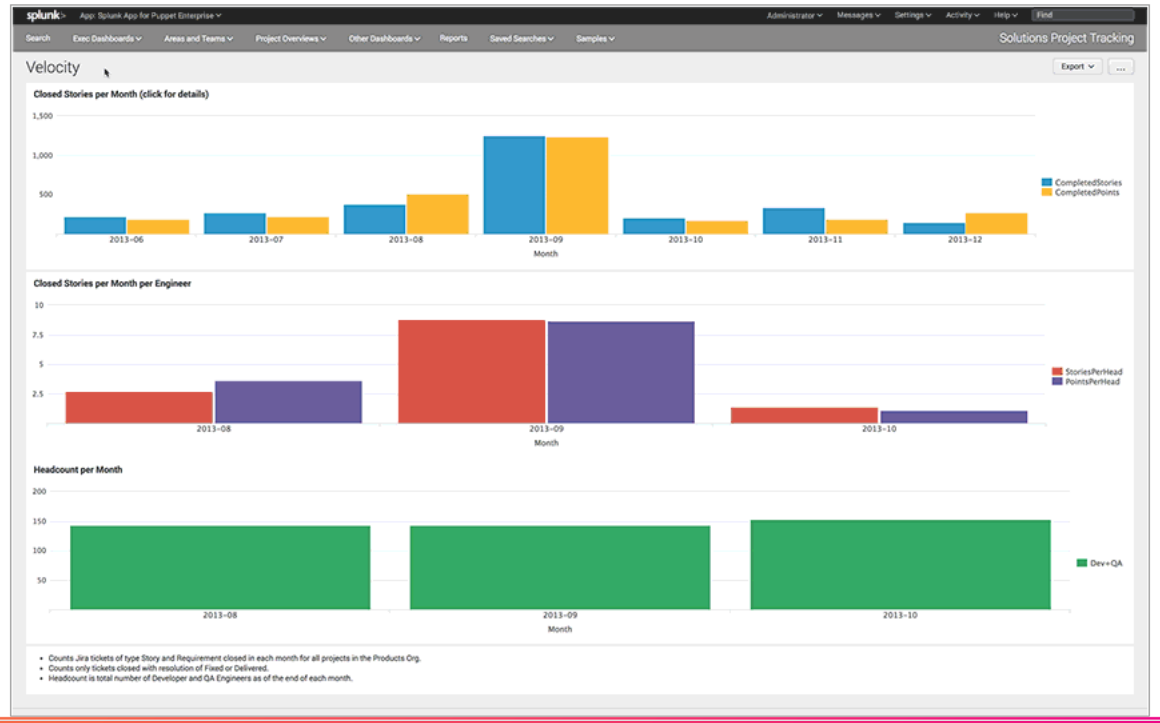
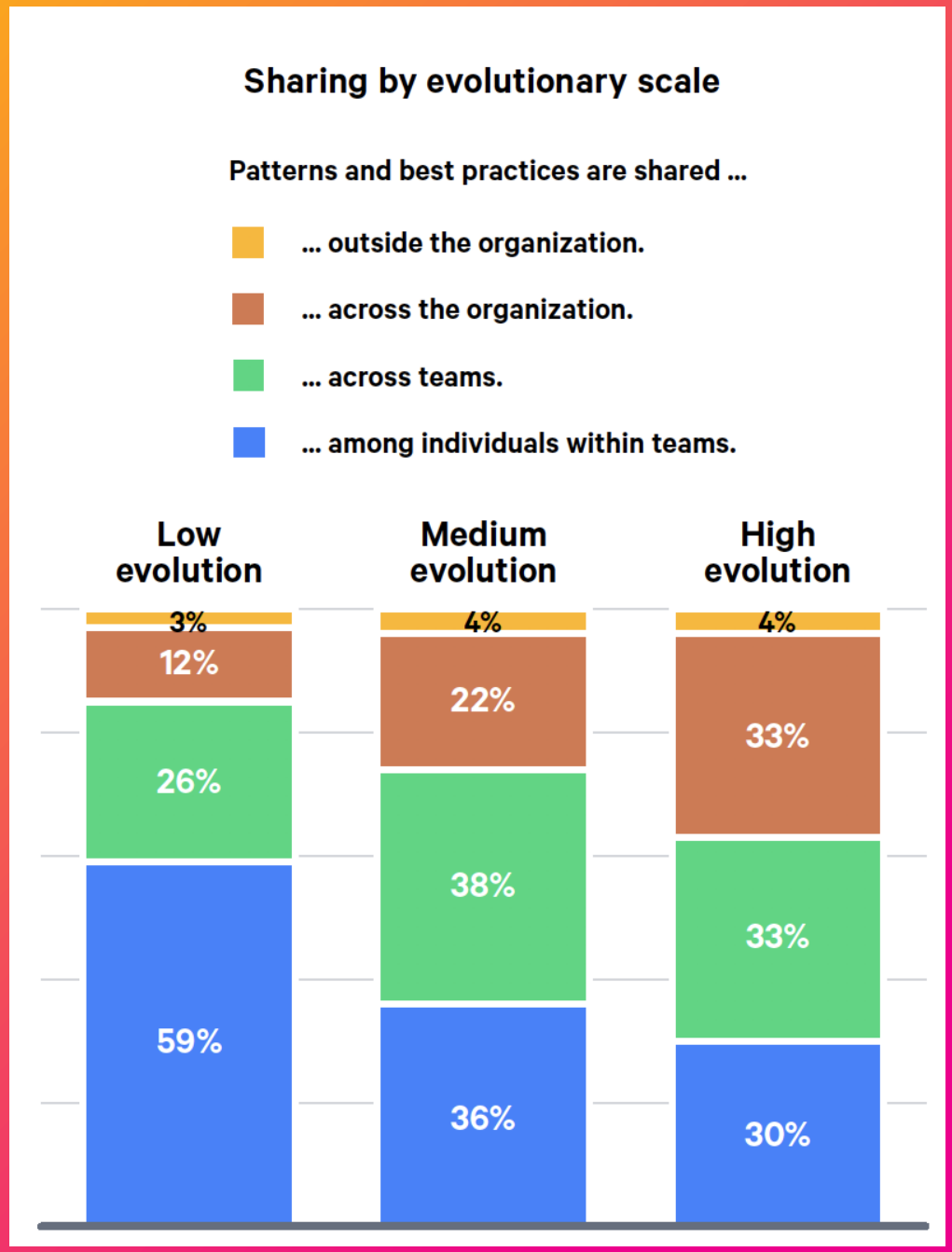


Infrastructure Automation Toolchain

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

puppet ANSIBLE JIRA git

vmware kubernetes



2018 Puppet State of DevOps Report

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

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Service Level Monitoring

Understanding Overall Health

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

Splunk IT Service Intelligence™

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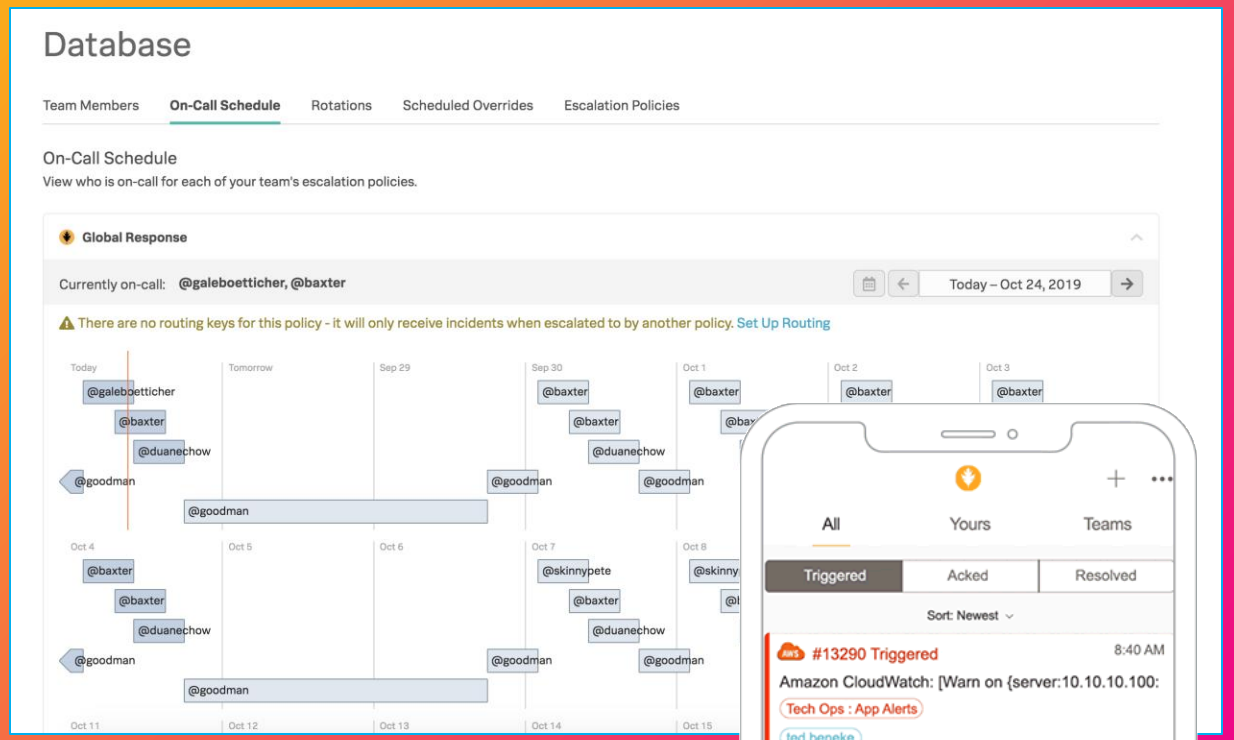
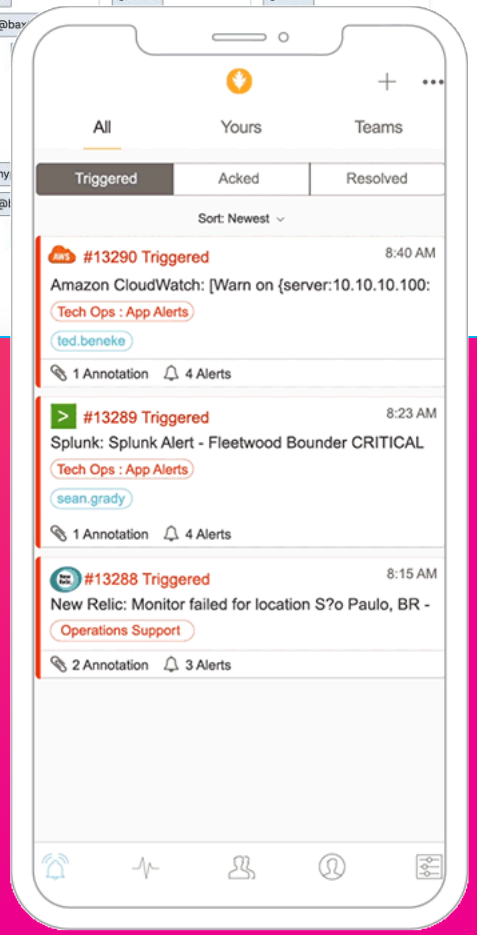
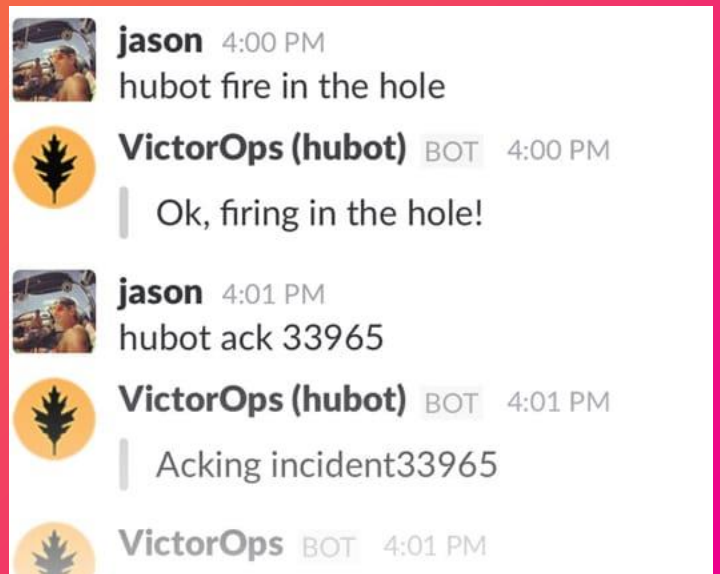
Incident Response

Joining People and Information

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







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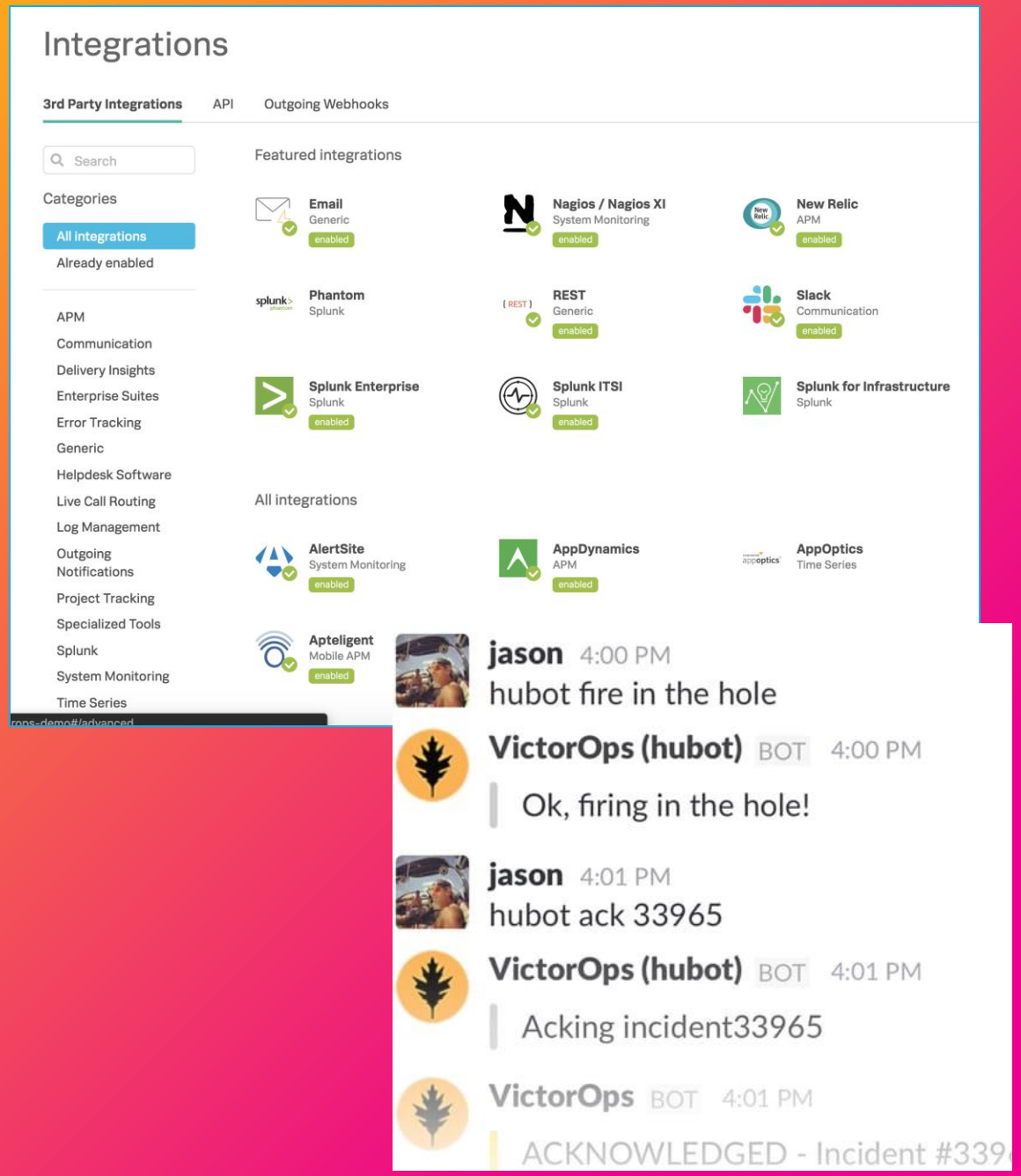
Toolset Integration

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

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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

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**

Thank You!

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