

DevOps Intelligence

Deriving Value Rapidly in Agile Sprints with Real-time DevOps Analytics

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Welcome!



Bryan McCauley



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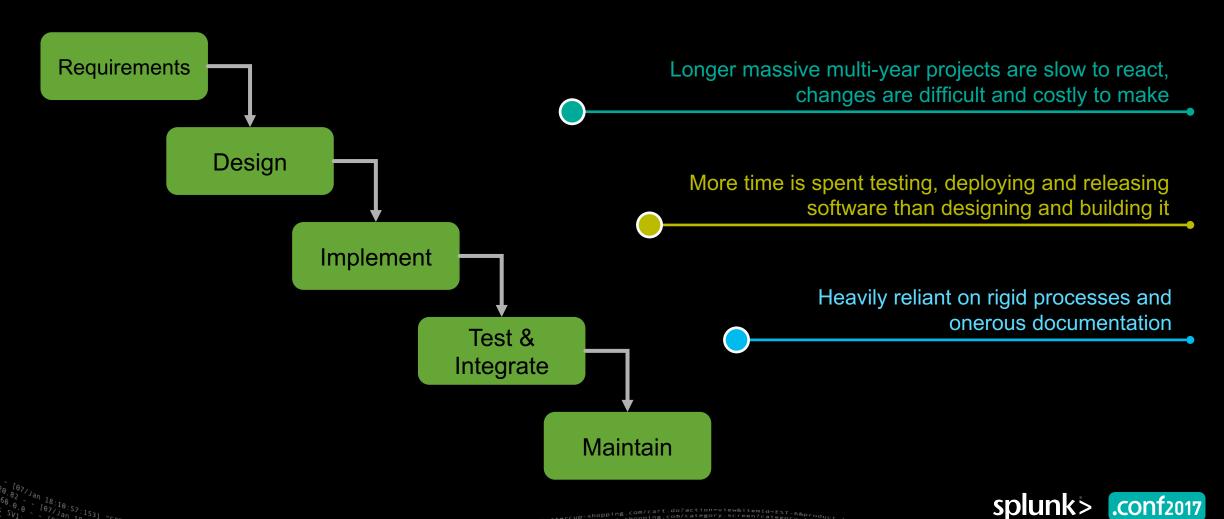


- World largest independent technology service provider
- ▶ 94 of Global Fortune 100
- ▶ ¾ of Global Fortune 500
- ► 410,000 employees
- #1 Partner for SAP, SFDC, Oracle, MSFT, HP



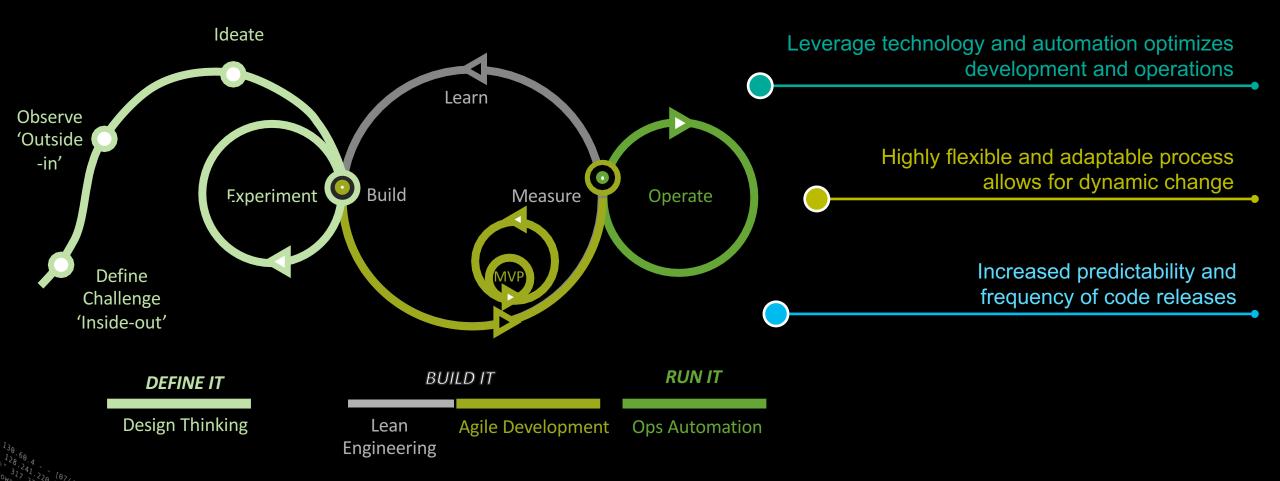
Challenges of Waterfall

Legacy IT models are challenged to keep up with the ever increasing velocity of today's business environment



Promise of Agile

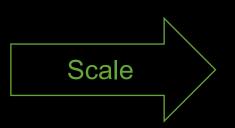
DevOps enables IT to deliver at the pace the business demands...





...but new models, processes, and technologies pose new challenges





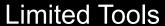


Distributed Operations















Operational Complexity

Large development teams and legacy processes



Lack of Visibility

Numerous bespoke technologies silo's data required for process intelligence



Poor Collaboration

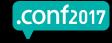
Development happening in silos without crossseeding



Lack of Control & Flexibility

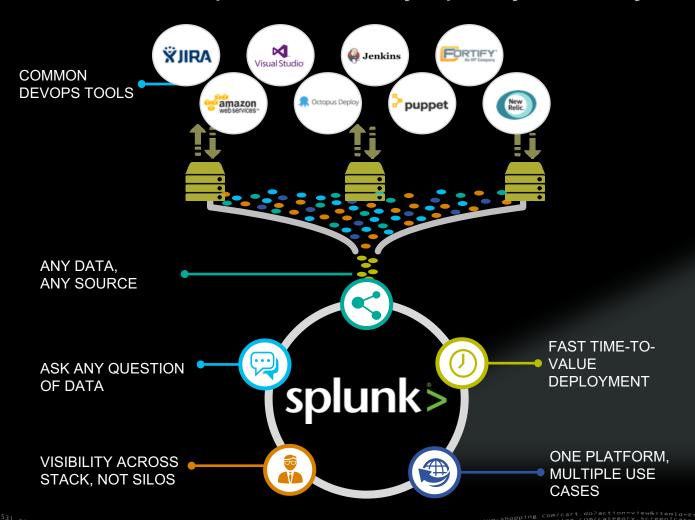
Poor control and lack of standardised delivery metrics





Solution: Intelligence From Splunk

Build an E2E analytics capability across the DevOps ecosystem to improve development velocity, quality, stability and performance



Enabling Capabilities



e2e Visualizations & Correlations

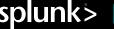


Integrated Tracking & Alerting



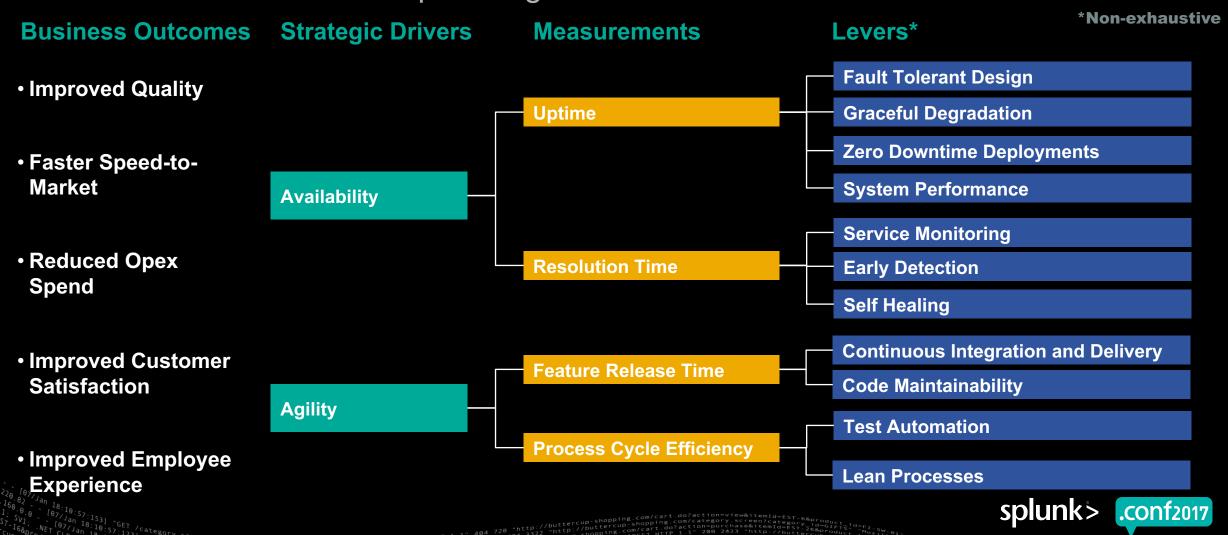
Automation and Machine Learning





Guiding Principle 1: Ask the Right Questions

Measuring the effectiveness of an IT organization is multi-dimensional and often spans organizational entities



Guiding Principle 2: Stay Flexible

An effective solution needs to accommodate an ever changing systems landscape

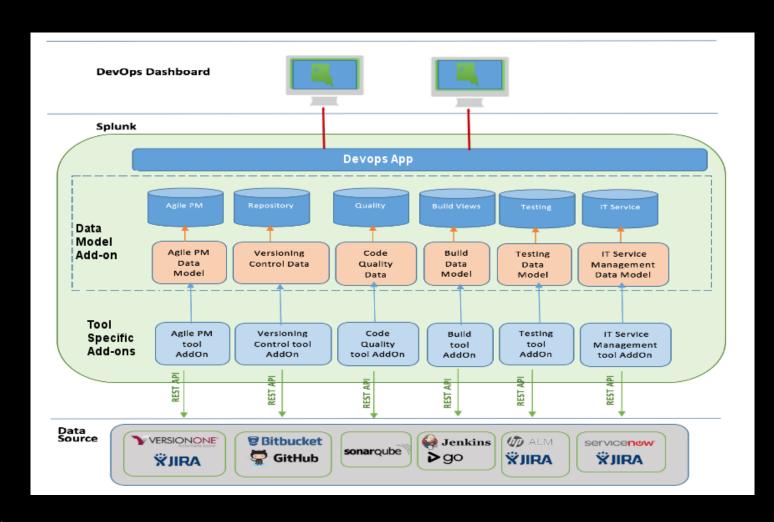
DevOps Analytics Supported Tools Planning & Scoping · Agile-based issue management · Issue types: Epic, Story, Task, Bug Agile project management with Kanban & Scrum Bamboo GitLab Jenkins Continuous Integration Source control Automated test execution Continuous Delivery NewSource = Gitorious based repository Reporting & App build pipelines Wiki functionality transparency Quality Management, Automation **sonar**qube Jenkins PARASOFT. Code Quality Line Converge Code Complexity Automation Test Case Executions Code Vulnerabilities Regression Test Case Executions Servicenow # JIRA > bmc Remedy · Incident Management Request Management · Operation Support

Build or Borrow?



Guiding Principle 3: Stable and Repeatable

While ecosystem components vary from client to client, the process is common



What is the right data structure?



Data Models

"A data model is a hierarchically structured search-time mapping of semantic knowledge about one or more datasets. It encodes the domain knowledge necessary to build a variety of specialized searches of those datasets." (Splunk Docs)

- Knowledge object encapsulate logic within Splunk
- Allows for users to create pivot tables
- Enable data model acceleration (under certain conditions)



Continuous Improvement!

Important to continue to harvest and develop new innovations

Media / Entertainment Conglomerate

Global Telecommunications Conglomerate



Multinational Mining Corporation



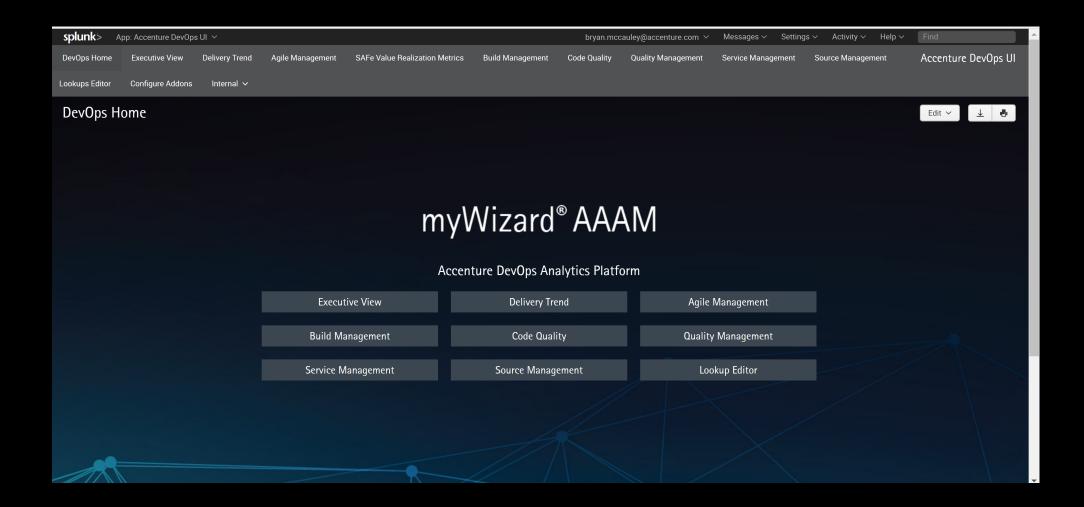
- Real-time vs.
 Manual Dashboards
- Insights between Dev vs. Test groups
- Improved budgeting granularity

- Customized Add-ons
- Global view
- Promote agile methodology adoption

- Wrapped machine learning
- Chatbot status inquiries



Demo



/ 148:16' GET / Category.screen?category.screen.scree



Lessons Learned

- Clients use the same tools in different ways
- ► The availability and quality of API's varies
- Splunk is a complement, not a replacement
- Value (and sometimes danger) in a single source of truth



Q&A

Please Stop By Our Booth or Contact Us!
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