

Scaling Continuous Delivery Across the Enterprise

CONTINUOUS DELIVERY THAT DRIVES SUSTAINABLE BUSINESS VALUE

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DevOps is an Impediment to Digital Transformation?





Doing continuous delivery for the sake of continuous delivery is not enough if you want your organization to succeed.



Accelerate: State of DevOps 2018: Strategies for a New Economy



Challenges Scaling Continuous Delivery



VALUE STREAM CLARITY

84%

experience release problems due to application dependencies¹



CLOUD MIGRATION

80%

of IT budgets will be committed to the cloud²



FRAGMENTED TOOLS, TEAMS

1 Month

lead time for changes for low performers³



LEGACY VS MODERN

53%

are using a microservices architecture⁴



NO VISIBILITY & MEASUREMENT

57%

are dissatisfied with the time to deploy new features⁵



SECURITY AND COMPLIANCE

30%

security scan only once per year⁶



¹⁻DevOps Research prepared by Spiceworks for CA Technologies, February 2017 2-DZone 2017 Native Cloud Development survey
Building Trust in a Cloudy Sky: The state of cloud adoption and security, McAfee Survey 2016
https://www.mcafee.com/us/solutions/lp/cloud-security-report.html
3-2017 State of DevOps Report Presented by Puppet and DORA

⁴⁻Dzone 2017 Microservices survey https://dzone.com/guides/microservices-breaking-down-the-monolith 5-BlazeMeter "Black Friday" study, 2016 6-Veracode, v7. State of Software Security, 2016

Legacy to Microservices

Pervasive automation across IT app portfolio



MULTI-TIER, ON-PREM APPLICATIONS

- Server-based Java/.Net applications
- Packaged ERP applications (SAP, Siebel, Temenos)
- Mainframe applications

HYBRID APPLICATIONS

- · On-prem and cloud hybrid
- Multi-tier and microservices hybrid

NEXT GEN APPLICATIONS

- Cloud, microservices, containers, multi-channel, complex service dependences
- Frequent, small, high cadence releases
- Integrated testing & delivery pipelines



End-to-End Security

Security Must be a Primary Concern



Key Security Statistic

Application-layer attacks were the leading cause of data breaches in 2016.

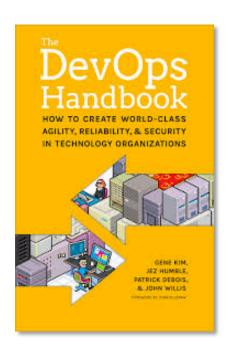
-Verizon Data Breach Investigations Report

- End-to-end documentation and traceability of business processes.
- Automatically track system configuration changes.

- Security embedded and tracked through the release process and not an afterthought.
- Automation mechanics themselves must be secured.



The Importance to Leadership

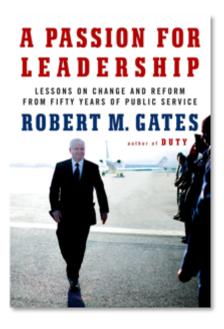


In many of our case studies, following the achievement of the breakthrough results presented, many of the change agents were promoted—but, in some cases, there was later a **change of**leadership which resulted in many of the people involved leaving, accompanied by a rolling back of the organizational changes they had created.

Kim, Gene; Humble, Jez; Debois, Patrick; Willis, John. The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations (Kindle Locations 6156-6158). IT Revolution F Edition.



Pull People Out of Their Silos



The best way to get access to, and use, internal talent and ideas ... to implement reform is to get people from different parts of the organization working together outside their normal bureaucratic environment.





Key Take Thoughts

- Be a leader!
- Think more broadly about continuous delivery
- Embrace the entire IT portfolio
- Secure the automation mechanics themselves
- Learn to speak the language of business



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Thank You.