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The three years since we published our first DevOps eGuide have been a time of evolution—and revolution—for the DevOps movement. No longer just an industry buzzword, DevOps practices are being embraced by start-ups and enterprise-level organizations alike. What agile ignited with its focus on frequent releases, DevOps has turned into a full-fledged push for continuous everything—from build to delivery.

This eGuide provides resources to help teams move from their initial DevOps adoption through a full digital transformation. For organizations with established DevOps processes, this guide also offers tips to speed up the delivery cycle by identifying bottlenecks and building quality in from the start.

In this DevOps eGuide

It's a Pivotal Time for DevOps

Customers expect real-time software updates. As DevOps becomes the engine for delivering business value, continuous innovation is needed. And this has to begin at the start of every project.

6 Steps to a Successful DevOps Adoption

Implementing DevOps practices can significantly accelerate software releases while still assuring applications meet quality objectives. But DevOps can't be bought, bolted on, or just declared. If you're considering a move to a DevOps delivery model, here are six approaches for ensuring a successful DevOps adoption within an organization.

Engineering Architecture Systems for a Faster Build

In the era of continuous integration and continuous deployment, big applications are creating bloated build pipelines. The problem is when code becomes so entangled that every change impacts large portions of the system, meaning there's a lot to rebuild. If you reshape the code architecture, you can reduce build times.

The Essential Role of QA in Digital Transformation

Many organizations are undertaking a total digital transformation in order to accelerate processes, innovations, and opportunities. But if you think you can update your development efforts without making a change to your QA program as well, your change will not be successful. QA is essential to reliability.

Build the Right Things and Build Them Fast: Accelerate the Continuous Delivery Pipeline

When most people think about continuous delivery, they think of improving the build-test-deploy-operate cycle. They don't think about how to improve the intake process. Ensuring that quality is built into the application—not tested for after the fact—is the key to achieving accelerated continuous delivery.

Finding the Bottlenecks in the Agile and DevOps Delivery Cycle

To achieve incremental software development and continuous feedback, you need to eliminate the tasks that create bottlenecks, which hinder the flow of development. A chain is no stronger than its weakest link, and identifying these "weak links" is a critical step toward achieving agility and increasing efficiency.

Insight from around the Industry

What industry insiders have to say about DevOps and today's "continuous" culture.

Additional DevOps Resources

It's a Pivotal Time for DevOps

By Eric Robertson



The complex nature of software development and delivery, especially at an enterprise scale, has resulted in DevOps gaining importance in recent years. How many of us have been frustrated by online banking or some other vendor interaction? How many of us have left a vendor for another that offers a better customer experience? Today's digital world shows us how the speed and quality of software delivery can either help or harm customer satisfaction and affect business outcomes.

Better customer experiences are driven by better software, and Microsoft CEO Satya Nadella saw it coming at the company's annual Convergence conference in 2015 when he stated, "Every business will become a software business, build applications, use advanced analytics, and provide SaaS services." [1]

All organizations are impacted by software, and all businesses are in the software business.

The quality and functionality of a company's software affects everything from competitive differentiation to customer support and, ultimately, employee satisfaction. So why aren't all private and government organizations delivering better offerings and better service at greater speeds?

The Importance of DevOps

Traditional efforts to deliver innovative software solutions are often hampered by the limitations of the disparate tools, methods, and platforms in use today. Teams tend to be spread out geographically, and today's software development requires collaboration between R&D and IT operations.

DevOps will become an even higher priority to the enterprise as IT professionals learn how it helps bring innovative ideas to life by accelerating and improving software development.

Companies that expand their DevOps practices will experience the benefits of better teamwork between development and other groups across the enterprise.

Next-generation DevOps tools are starting to deliver comprehensive views of software release cycles. They combine those views with operational data that teams can use to make better-informed decisions. Key performance indicator (KPI) data will come into play, providing a link between an organization's software development lifecycle and its business. Fundamentally, DevOps is changing to usher in these and other advances that connect software development to the heart of the enterprise.

Here are some of the trends I see developing in the next few years as the DevOps market evolves.

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