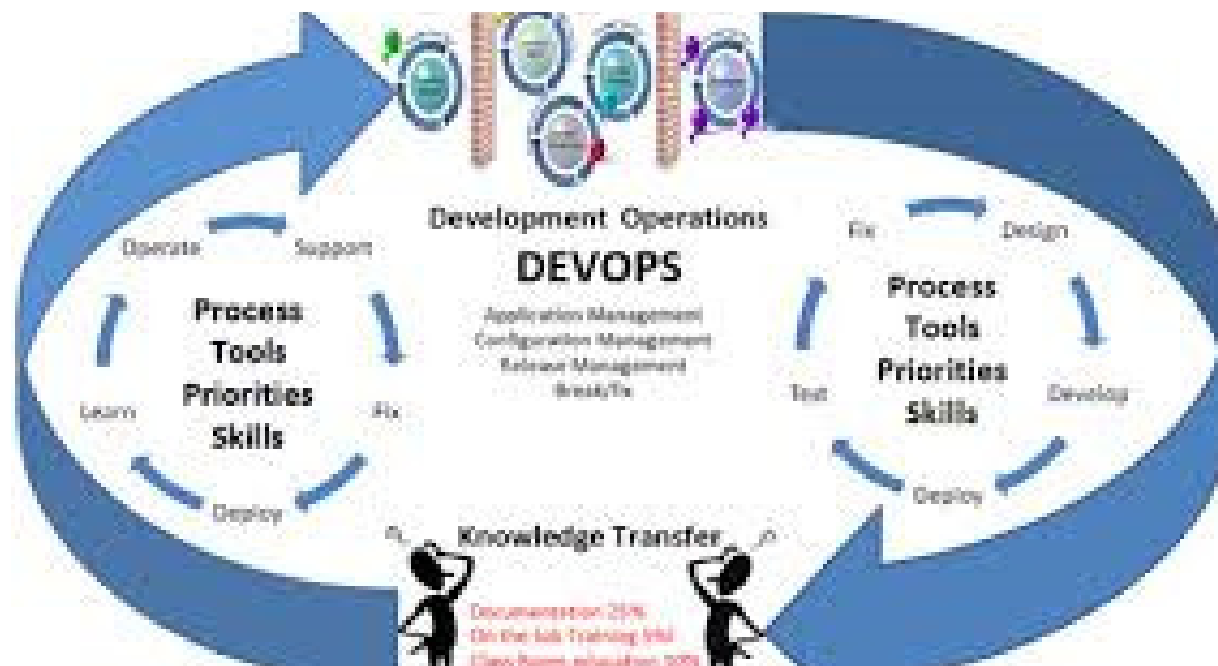# The Meteoric Rise of the DevOps Movement

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Dr. Gail Ferreira, SPC4, CSP, ACC, PMP, LSSBB | ✓ Following
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Fast-paced innovation in technology is highly dependent on organization and infrastructure capabilities of an organization. Information Technology leaders such as CIO continue to look for new ways to innovate, reach levels of higher performance, while building sustainable technology departments.

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to a continual frustration: a lack of collaboration and communication between develo

and operations on software projects that increase the time and labor involved in deliv

and maintaining software systems" (p. 5). There have been incredible results for con

that embrace the DevOps culture, and have the ability to utilize the latest automated

deployment tools.

So what does DevOps mean? The term refers to Development plus Operations or D

The synergistic interactions of both the departments working closely together produc

outcomes including improved camaderie and teamwork, faster time to market, Agile

development, higher quality software and improved operational support of products

launched. Not only are technology leaders such as Facebook, Twitter, Etsy, AirBnB and

Uber embracing DevOps, but also government agencies such as the USCIS are embracing

DevOps practices to accelerate results. In the recent Agile 2015 conference, Marc Schwartz,

CIO of the USCIS discussed how he streamlined the complex process and paperwork

involved with the immigration processes using DevOps, and the results where phenomenal.

Executive leaders such are discovering that relational leadership, which is a way to observe

the world and a set of practices for interpreting, communicating and coordinating

actions can help support DevOps teams, and the practices and principles can also be applied

to other DevOps teams.

The key performance indicators (KPI) of DevOps include the following:

1. Deployment Frequencies and Speed

2. Improved Failure Rates

3. Faster Recovery Time

One of the great features of DevOps is that the focal point is to align the goals of operations and development, turning them into a set of shared results for the organization. However, not only does DevOps rely on quantitative measures, but also on qualitative areas such as cultural values. Kim (2014) writes:

We are often trapped in low-trust, command and control cultures that reinforce fear, preventing experimentation and innovation. Over decades, this has let to an order taking malaise present throughout our industry - so much that in IT, we often call the organizations we serve as the business - as if we were merely a service provider, instead of a critical part of how value is delivered to customers (p. 3).

Thus, the realization of a DevOps environment is dependent on leaders ensuring that the cultural foundations are in place for the organization in order to fully realize the value that DevOps can bring to the organization. DevOps people talk about the CAMS of DevOps, which is an acronym for Culture, Automation, Measurement and Sharing.

CAMS helps teams embrace the DevOps culture by improving collaboration, communication, and coordination while reducing risk of failed deployments among different functions in the organization, and coupling with best in breed tools such as New Relic, Electric Cloud and other fast deployment tools. However, without the proper culture and mindset the DevOps movement in the organization will fail to thrive as tools alone cannot create a successful DevOps organization.

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Kiran Sankara   2y   ⋯
Author, Transformation Strategist - CrossWinds Technologies Silver Partner Scaled Agile

With the launch of new SAFe 4.0, DevOps changed alot. PDCA at Iteration level and program level made all the teams come together to do either do a team demo or system demo or solution demo at the end of iteration or PI increment. Solution intent, Solution context and Solution demo are game changers. Contineous Cadence and Synchronization reduces ...see more

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Dr. Gail Ferreira, SPC4, CSP, ACC, PMP, LSSBB   2y   ⋯
○ International Lean-Agile Transformation Practice Leader | Speaker | Author

Hello Kiran, Great post - the launching of SAFe 4.0 further synchronizes the activities between Development and Ops. Now, how do you believe SAFe 4.0 can synchronize activities at the portfolio, program and project levels - thoughts?

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Sonia Gupta, MS, MBA, PMP, SCPM, CSM   2y   ⋯
Head of Enterprise PMO at YapStone

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Dr. Gail Ferreira, SPC4, CSP, ACC, PMP, LSSBB

International Lean-Agile Transformation Practice Leader | Speaker | Author

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