

DevOps

Wednesday, July 11, 2018

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Who am I? Why am I here?

- Working as Systems Architect at Clemson University
- Actively involved with Open Source projects
 - SaltStack
 - OpenStack
 - GitLab
- Speaker at conferences:
 - SaltConf15, SaltConf16 (Keynote)
 - OpenStack Summit 2015 (Tokyo, Japan)
 - openSUSE Conference 2016 (Nuremberg, Germany)
- Certified and experienced using DevOps Tools

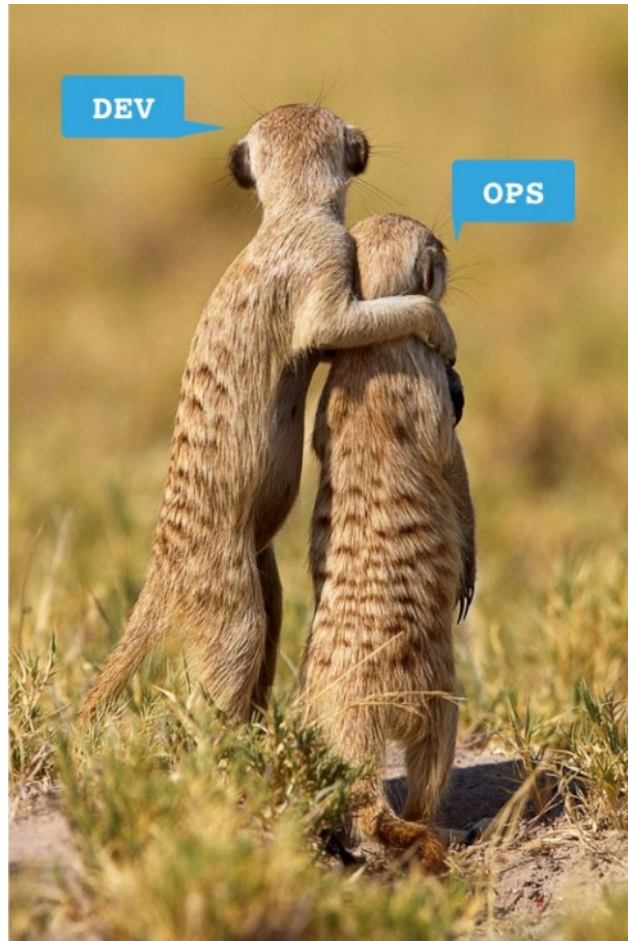


What is DevOps?

“ DevOps is a set of practices intended to reduce the time between committing a change to a system and the change being placed into normal production, while ensuring high quality ”

- Bass, Weber, and Zhu

Definition and history



- Term first introduced in 2008 by Andrew Shafer & Patrick Debois
- Has been used in multiple contexts
 - Culture?
 - Role?
 - Tool?
- Practice/Methodology aiming at unifying software development (Dev) and operations (Ops)
- Not as simple as combining Dev and Ops

Goals

- Continuous Development
- Continuous Testing
- Continuous Integration
- Continuous Deployment
- Continuous Monitoring



What isn't DevOps?

DevOps is NOT ...



- Single term or a single process
- Developers trying to take over operations
- Just the use of CI/CD tools
- Just a culture
- Just a role/job title
- Just Dev and Ops

Significance of DevOps

Why DevOps?



- Shorter and Faster Development cycles
- Lesser deployment failures, rollbacks, time to recovery
- Improved collaboration
- Increased productivity and efficiency
- Reduced Cost

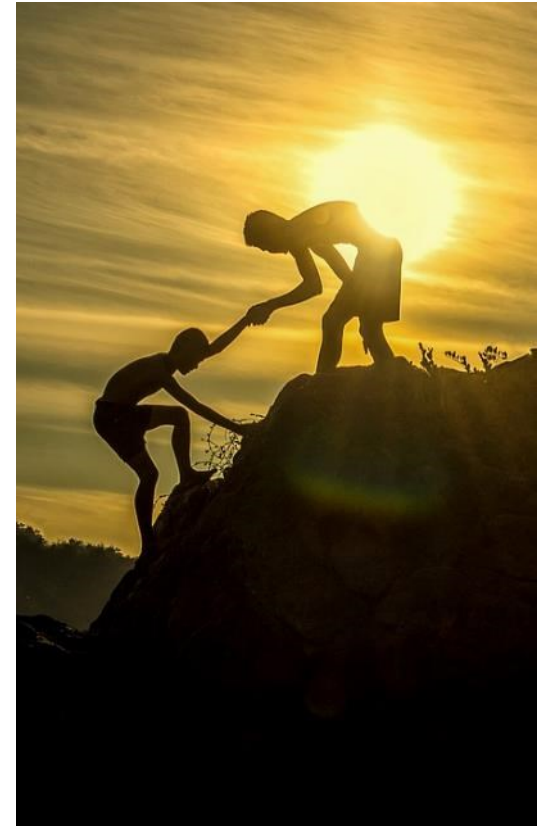
DevOps: Challenge:



Challenges



- Culture
- Automation
- Legacy systems
- App complexity
- Skillset & Tools



Questions?

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