

BoF: TOPICS IN CONFIGURATION MANAGEMENT

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Suggested Topics

Continuous Delivery and How Do We Get There

ITIL and the CMDB

Scalability of CM infrastructure

Applied DevOps and Agile Release Management

a few remarks

- this is our time (fans of infrastructure)
- devops / agile ops / continuous delivery
- solving the update problem with massive scalability
- FCAPS & OAMP / infrastructure as code

Continuous Delivery ... and How Do We Get There

- Continuous Delivery book by Humble & Farley
- Continuous Deployment chapter 4 in Web Operations book edited by Allspaw and Robbins
- Visible Ops Handbook by Gene Kim and Kevin Behr

Continuous Deployment in five easy steps (source: Eric Ries, Ch 4 in Web Operations)

1. Continuous integration server
2. Source control commit check
3. Simple deployment script
4. Real-time alerts
5. Root cause analysis

ITIL and the CMDB

- CMDB enables powerful practices. The use of a CMDB is not yet widespread. Only 19% of survey respondents have a CMDB broadly in use. However, CMDB-enabled change linkage practices predict higher levels of performance. Only 47% of top performers in the study have CMDB-enabled change practices, such as linking change requests to infrastructure, business need, and incident tickets. Yet these practices are a statistically significant predictor of top levels of performance.
- Linking change requests to a system-level and business-level context is a powerful way to reduce release rollback rate, reduce configuration drift, and improve incident response.

ITPI.org: Change, Configuration, and Release: What's Really Driving Top Performance?
7 groups of best practices predict top levels of performance at 341 IT organizations

Scalability of CM infrastructure

- which CM tool scales best?
- puppet: WEBrick vs Passenger
- thundering herd
- certificates & authentication

Applied DevOps and Agile Release Management

- CM automation drives packaging system development and dependency tracking
- Packaging system development drives build system enhancements
- Release Engineering advances depend on build system advances

Kent Beck

on the future of software engineering

The big trend is toward more frequent deployment. And that drives everything else, all the social changes that need to happen, all the technical changes that need to happen, the changes in practice and language and infrastructure. You know, if you're deploying fifty times a day, the database has to look different, your deployment stack has to look different, the current separation of ops and dev just has to go away. Marketing, sales, business models, everything changes when you're deploying very, very frequently. And that's a trend that is gathering momentum and I don't see any place where that's going to stop.

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your
topics
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**The
End**