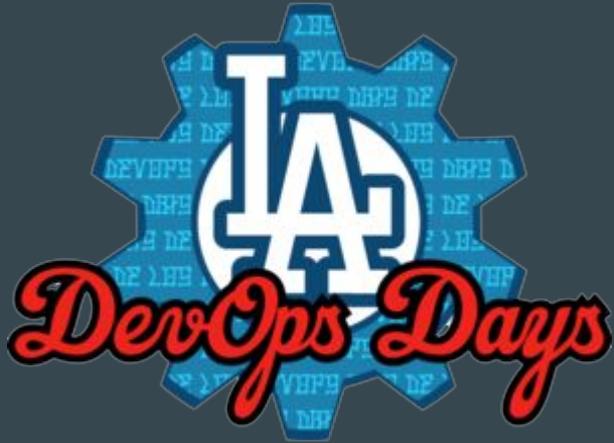


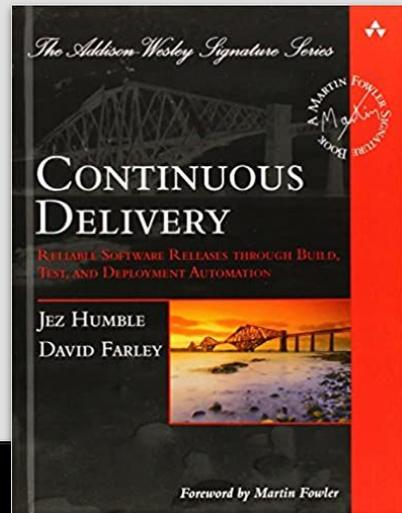
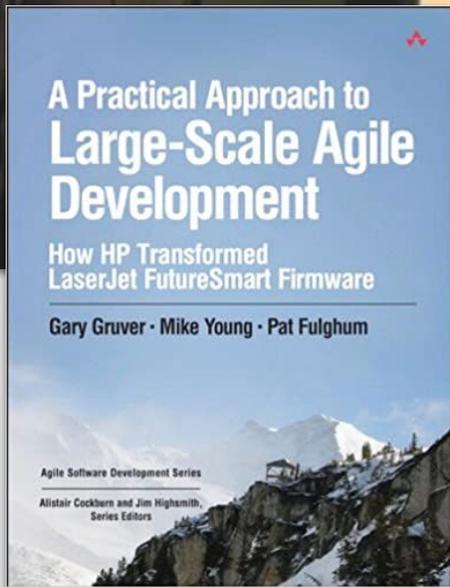
the journey from devops to cloud engineering

...

Matty Stratton



let's start by
looking back





The conference that brings development and operations together.



Home



Contact



Events



Presentations



Blog

Devopsdays Ghent 2009



welcome program reactions speakers participants

This is how the first devopsdays was announced:



The first devopsdays happened in Belgium - Ghent and was a great success. Have a look at the [reactions](#) is created and the [presentations](#) that were held. See you next time!

[Tweets from devopsdays events](#)

Non-Functional Requirements: do user stories help? [\[PDF\]](#)[\[Video\]](#) [Rachel Davies](#)

Cucumber-nagios [\[slideshare\]](#)[\[Video\]](#)
Flapjack ... rethinking monitoring for the cloud [\[slideshare\]](#)[\[Video\]](#) [Lindsay Holmwood](#)

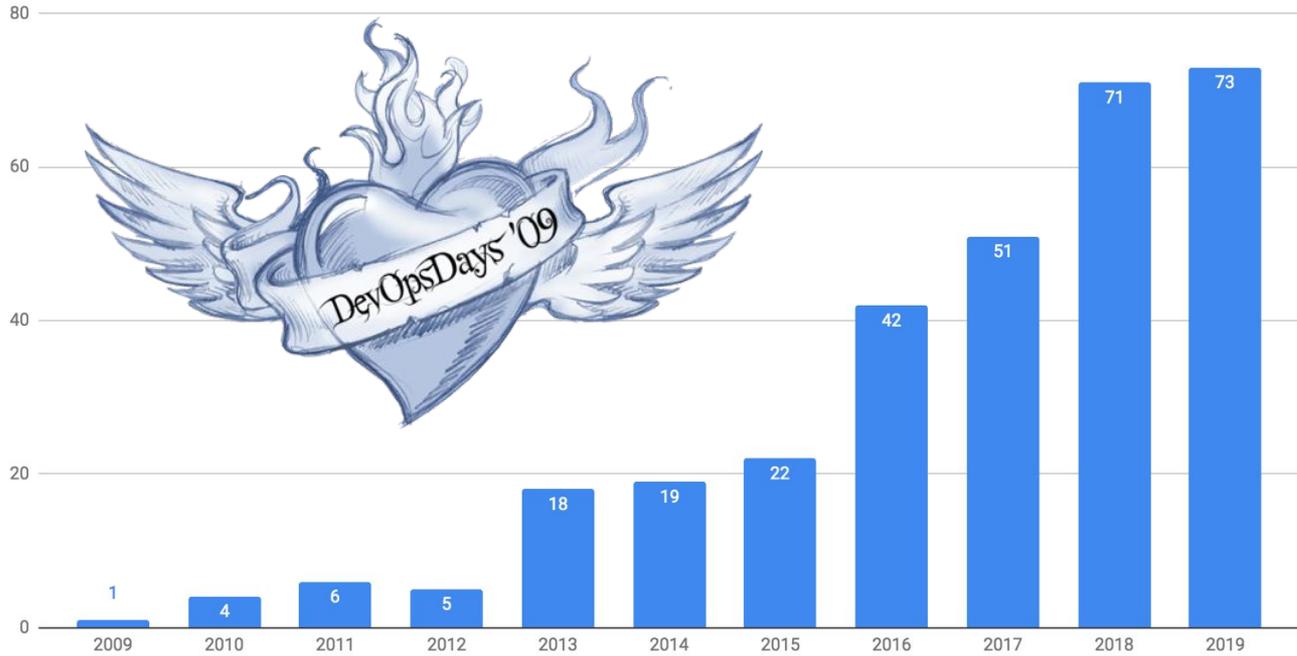
Building Agile Infrastructures with Puppet [\[PDF\]](#)[\[Video\]](#) [Teyo Tyree](#)

Introducing Kanban in operations [\[PDF\]](#)[\[Video\]](#) [Mattias Skarin](#)

Continuous Integration, Pipelines and Deployment [\[slideshare\]](#)[\[Video\]](#) [Chris Read](#)

A private openQRM Cloud use-case for a developer team ... not only for sysadmins. [\[ODP\]](#)[\[PPT\]](#)[\[Video\]](#) [Matthias Rechenburg](#)

devopsdays events



What is DevOps?



**DevOps is the union of people,
process, and products to
enable continuous delivery of
value to our end users**

Donovan Brown

@mattstratton

#DevOpsDays

What is DevOps?



Optimizing the human
experience and performance
of operating software with
software and humans

Andrew Clay Shafer

What is DevOps?



An engineering culture of collaboration, ownership, and learning with the purpose of accelerating the software development life cycle from ideation to production.

Emily Freeman



Khushil Dep
@khushil



Follow

#DevOpsIsNot copy-pasting answers from
#stackoverflow



DevOps
@joshhertze



Following

#devopsisnot a fullstack 10x rockstar
engineer.



Rachael
@halfwrittentale



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#DevOpsIsNot just developers being on call



Rainbow DashOps
@mattstratton

#DevOpsIsNot just reading The Phoenix
Project



Jason Walker
@TheDesktophero



Following

#DevOpsIsNot about avoiding discipline and
structure, or just about t-shirts & stickers



James Hebden
@james_hebden



Follow

#DevOpsIsNot your [redacted] khakis.

CALMS

culture

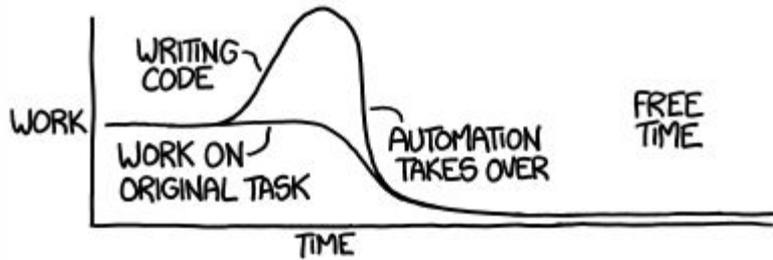
You can't directly change
culture. But you can change
behavior, and behavior
becomes culture

–Lloyd Taylor, VP Infrastructure, Ngmoco

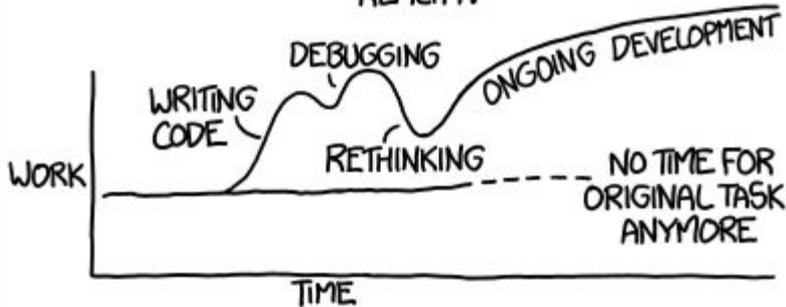
automation

"I SPEND A LOT OF TIME ON THIS TASK.
I SHOULD WRITE A PROGRAM AUTOMATING IT!"

THEORY:

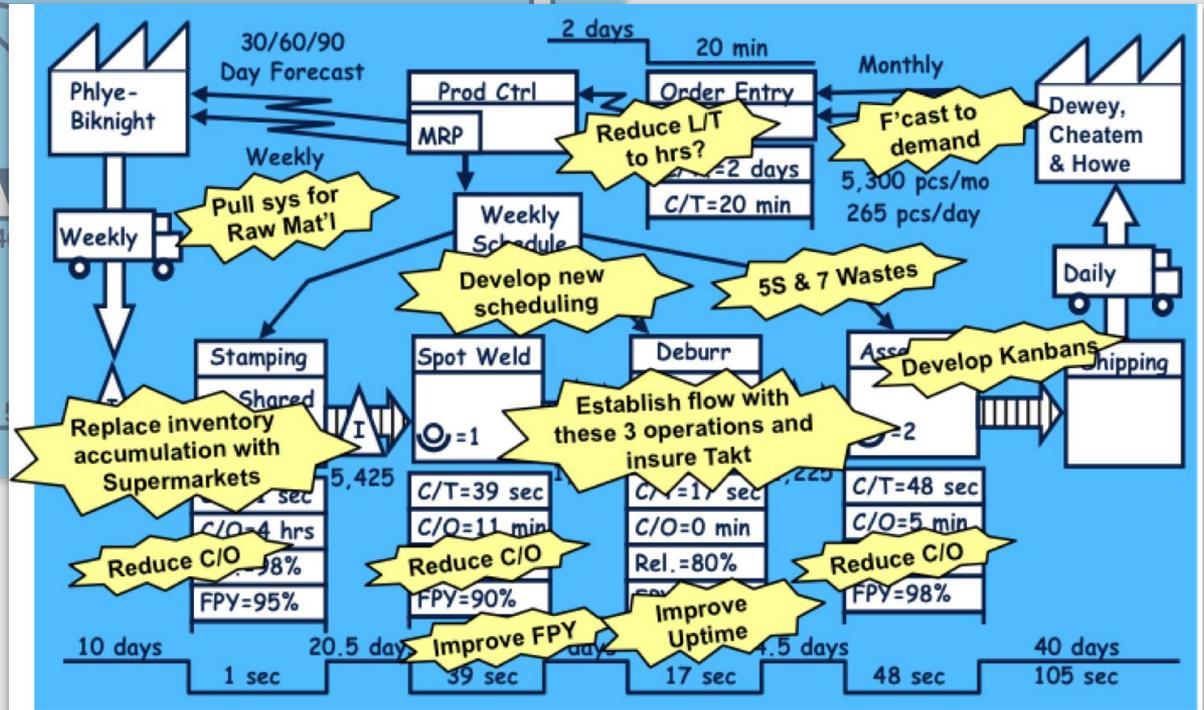
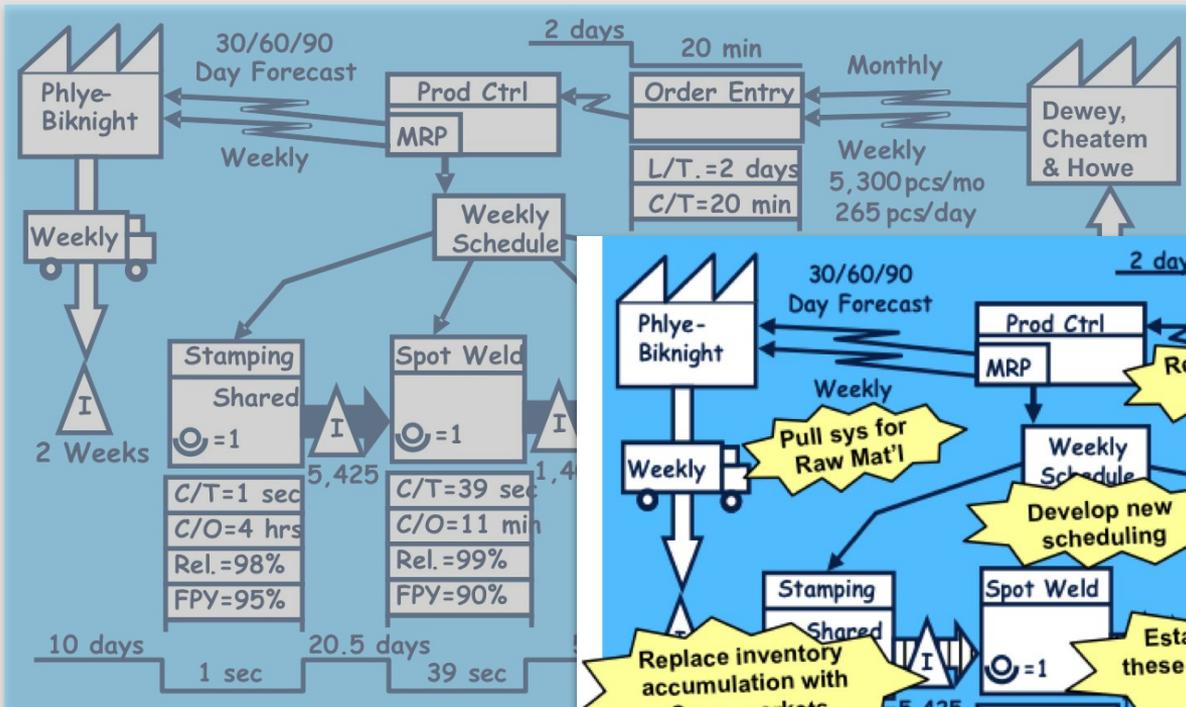


REALITY:



Asking experts to do boring and repetitive, and yet technically demanding tasks is the most certain way of ensuring human error, short of sleep deprivation, or inebriation.
– *Continuous Delivery*, Jez Humble and David Farley

lean



measurement

sharing

but... what
happened?

it's all about automation?

kubernetes will save us all

“culture is for yoghurt”

**devops is being
sold to you**

**“You can’t buy devops, but I can
definitely sell it to you”
– Matty Stratton, charismatic grifter**

DevOps

OpsDevOps

BizDevOps

DevOps

DevSecDE

DevSecOps



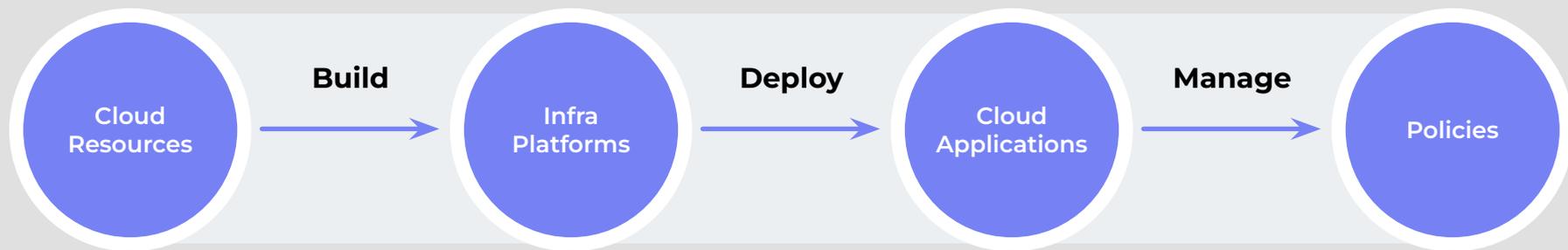
words are hard

don't worry

I have more words for you

Cloud Engineering

Cloud Engineering employs standard **software engineering practices** and tools across infrastructure, application development, and compliance teams to **tame the complexity of the modern cloud.**



build

Build



- ★ Shared services platforms
- ★ Reusable infrastructure components
- ★ Apply existing frameworks and tools

build + calms

[build] culture

- ★ focus on
differentiators
 - ★ common
development
experience
 - ★ drives empathy
-

[build] automation

- ★ reusable
components
- ★ leverage ecosystems
- ★ avoid bespoke
implementation

[build] lean

- ★ focus on value
- ★ drive efficiency
- ★ review for improvement

[build] measurement

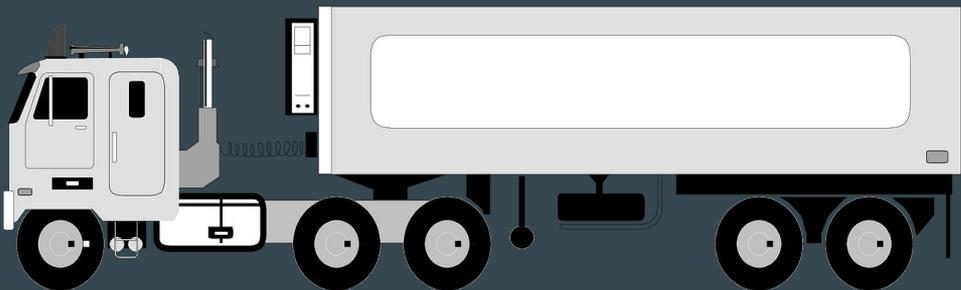
★ consistency breeds
visibility

[build] sharing

- ★ reusable components
 - ★ ecosystem promotes outside sharing
 - ★ learn from existing practices
-

deploy

Deploy



- ★ The same way, every time
- ★ I mean, *every* time
- ★ Quality and security checks
- ★ Automate checklists!
- ★ Infrastructure is part of the application

deploy + calms

[deploy] culture

- ★ “it doesn’t count until it’s in prod”
 - ★ iterative development
 - ★ enables continuous improvement
-

[deploy] automation

- ★ CI/CD pipelines
- ★ automated checks
- ★ checklists are great!
let's automate them

[deploy] lean

- ★ enables fast feedback
 - ★ visibility into the supply chain
 - ★ identify bottlenecks
-

[deploy] measurement

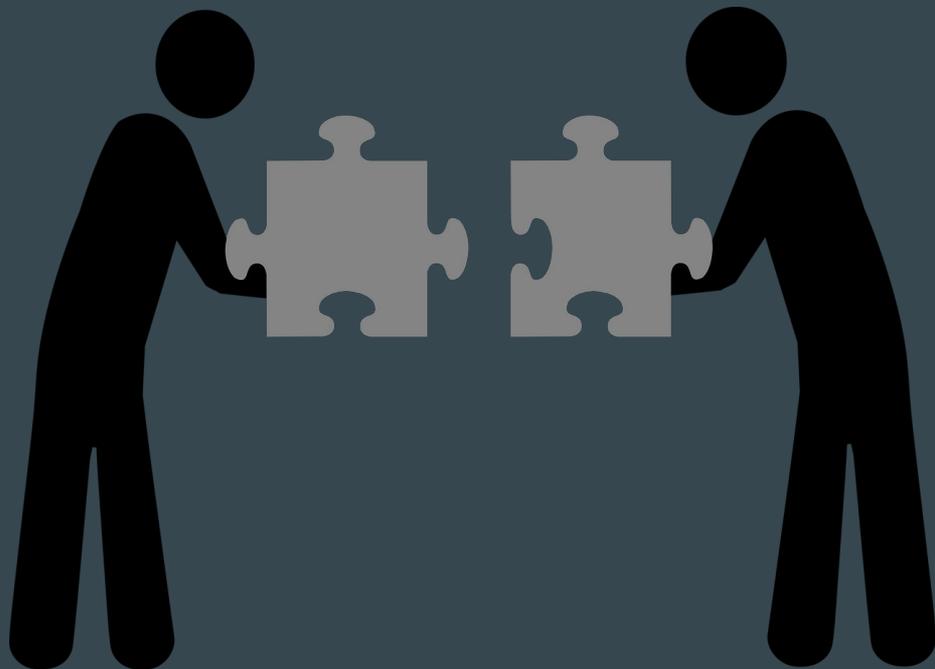
- ★ visibility again
- ★ measure cycle time
- ★ it's not just speed

[deploy] sharing

- ★ look, more visibility
 - ★ common pipeline
means less
duplicate work
 - ★ everyone knows
“what changed?”
-

manage

Manage



- ★ Visibility
- ★ Security is everyone's job
- ★ Common “vocabulary”
- ★ Controls and process that enable and enhance

manage + calms

[manage] culture

- ★ collaboration enabled through common code
 - ★ guardrails enable confidence
 - ★ increase common understanding across disciplines
-

[manage] automation

- ★ computers can't lie
 - ★ trust of
process/checks
 - ★ policy goes from
vague to
understandable
-

[manage] lean

- ★ determine improvements for safety
 - ★ express value stream changes in code
-

[manage] measurement

- ★ visibility into current policy
 - ★ view of current state of compliance
 - ★ identify when policy and value collide
-

[manage] sharing

- ★ shared vocabulary
- ★ utilize success patterns
- ★ share learning

let's take devops
back

Thank You



Twitter - [@mattstratton](https://twitter.com/mattstratton)

GitHub - [mattstratton](https://github.com/mattstratton)

Slides - speaking.mattstratton.com

LinkedIn - linkedin.com/in/mattstratton

Podcast - ArrestedDevOps.com

DevOps Party Games - devopspartygames.com