the journey from devops to cloud engineering

Matty Stratton
let’s start by looking back
Don't just say 'no', you aren't respecting other people's problems... #velocityconf #devops #workingtogether
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!
What is DevOps?

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

Donovan Brown
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
#DevOpsIsNot copy-pasting answers from #stackoverflow

#devopsisnot a fullstack 10x rockstar engineer.

#DevOpsIsNot just developers being on call

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

#DevOpsIsNot your khakis.
CALMS
culture
You can’t directly change culture. But you can change behavior, and behavior becomes culture

—Lloyd Taylor, VP Infrastructure, Ngmoco
automation
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
BizDevOps
DevSecDeOps
DevOps
DevSecOps
DevSecDevOps
words are hard
don't worry

I have more words for you

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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.
Cloud Resources → Build → Infra Platforms → Deploy → Cloud Applications → Manage → Policies
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

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#DevOpsDays
[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

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#DevOpsDays
[deploy]

lean

★ enables fast feedback
★ visibility into the supply chain
★ identify bottlenecks
[deploy] measurement

- visibility again
- measure cycle time
- it’s not just speed

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#DevOpsDays
[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

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Podcast - ArrestedDevOps.com
DevOps Party Games - devopspartygames.com

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