

Two talks:

1. "State of DevOps"

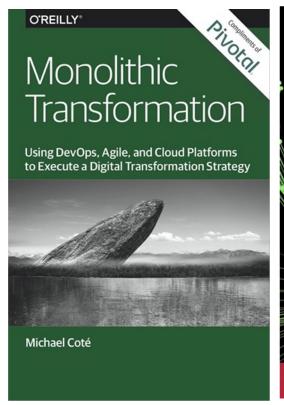
2. "We Fear Change"

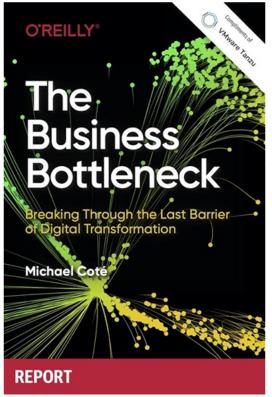


Coté

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Three views of DevOps in 2024

What DevOps means to people.

DevOps is

A centralized developer tools group

Market Definition/Description

This Magic Quadrant for DevOps Platforms is the first version of this Magic Quadrant. It replaces the Market Guide for Value Stream Delivery Platforms.

Gartner defines DevOps platforms as those that provide fully integrated capabilities to enable continuous delivery of software using Agile and DevOps practices. These capabilities run the gamut of the software development life cycle (SDLC) and include product planning, version control, continuous integration, test automation, continuous deployment, release orchestration, automating security and compliance policies, monitoring, and observability. DevOps platforms support team collaboration, secure software development and measurement of software delivery metrics.

DevOps platforms simplify creation, maintenance and management of the components

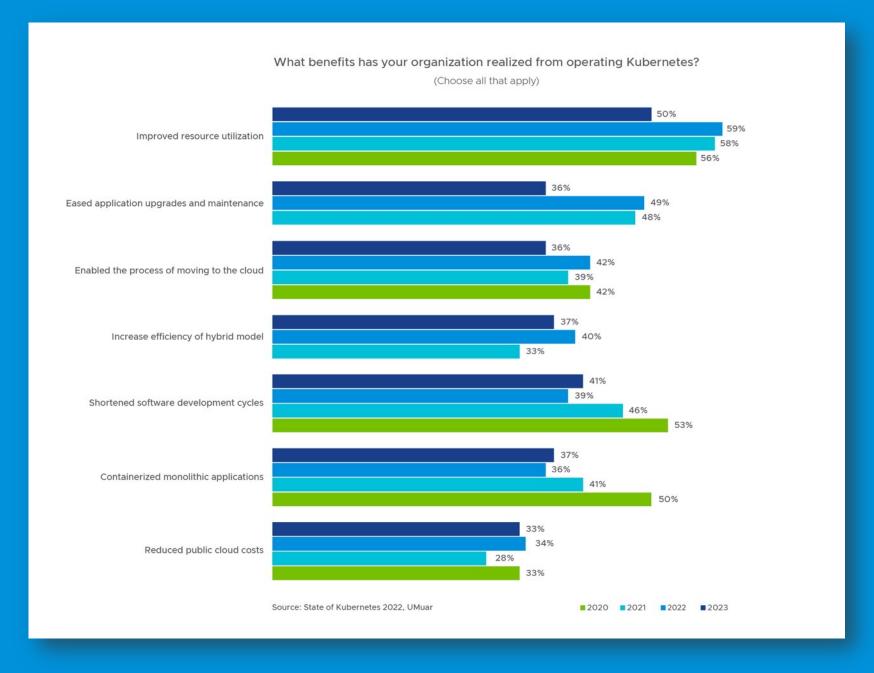
DevOps is

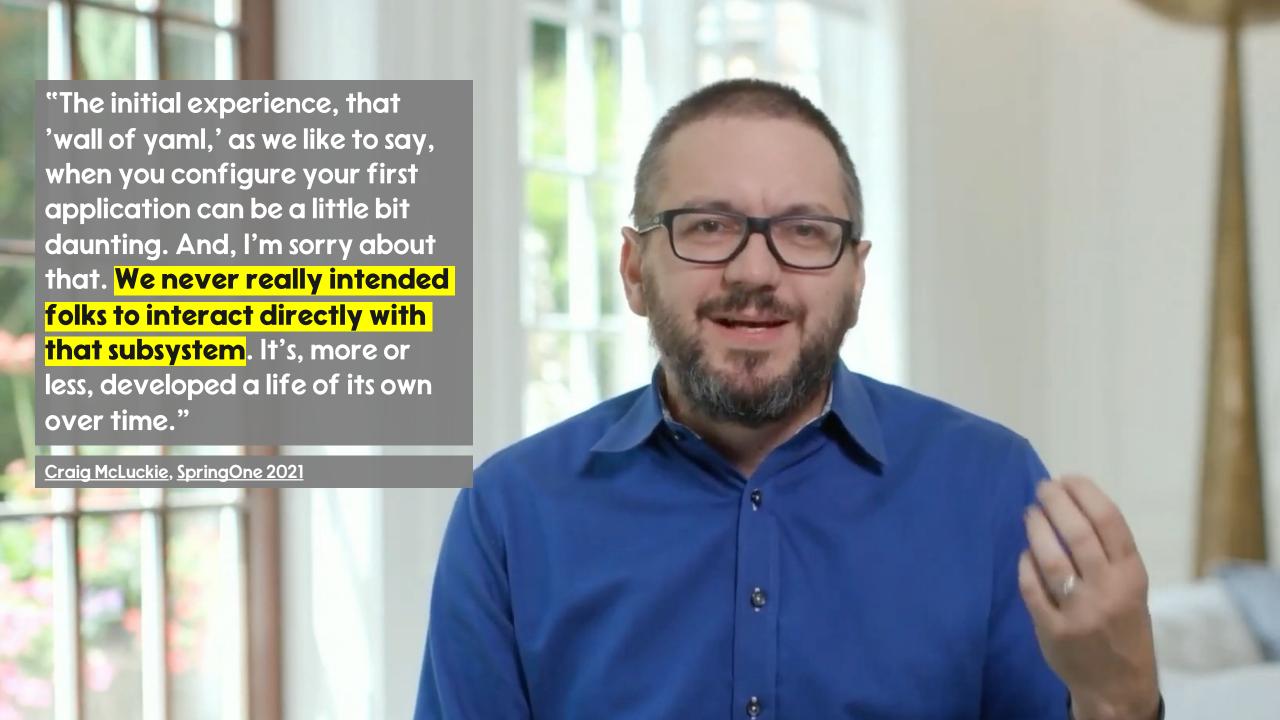
Culture

Pathological (Power-Oriented)	Bureaucratic (Rule-Oriented)	Generative (Performance-Oriented)	
Low cooperation	Modest cooperation	High cooperation	
Messengers "shot"	Messengers neglected	Messengers trained	
Responsibilities shirked	Narrow responsibilities	Risks are shared	
Bridging discouraged	Bridging tolerated	Bridging encouraged	
Failure leads to scapegoating	Failure leads to justice	Failure leads to inquiry	
Novelty crushed	Novelty leads to problems	Novelty implemented	

DevOps is

Simplifying yaml for developers (i.e., "Kubernetes")





DevOps is

Building & running platforms



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PODCASTS EBOOKS EVENTS NEWSLETTER

ARCHITECTURE ENGINEERING OPERATIONS

DEVOPS / PLATFORM ENGINEERING / SOFTWARE DEVELOPMENT / TECH LIFE

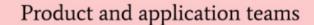
DevOps Is Dead. Embrace Platform Engineering

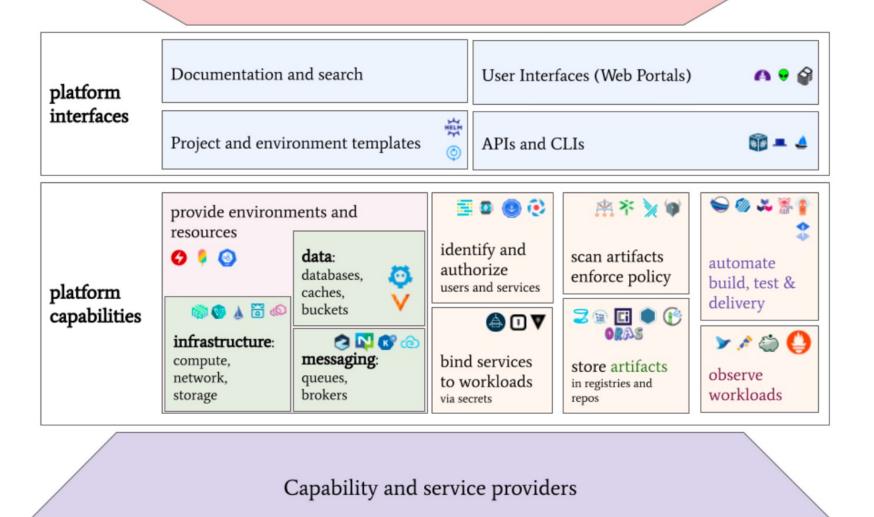
Platforms provide golden paths, with recommended tools and best security practices built in, reducing cognitive load while preserving developer freedom.

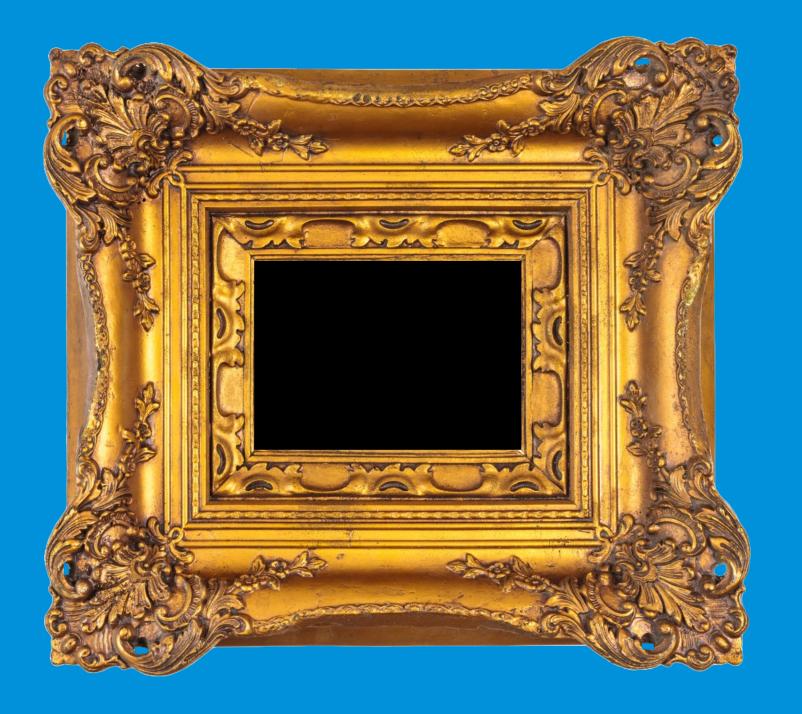
Sep 22nd, 2022 7:10am by Aeris Stewart



Image via Unsplash.









We all know that

Changing organizations fails 70% of the time.

Actually,

We have no idea how frequently changing organizations succeeds or fails.

Evolution of the Star Trek Analogy

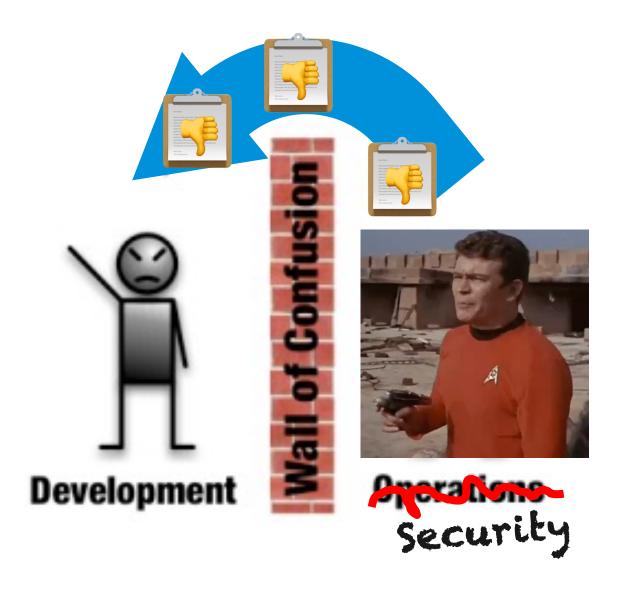




Little bit weird Sits closer to the boss Thinks too hard

Pulls levers & turns knobs
Easily excited
Yells a lot in emergencies

DevSecOps





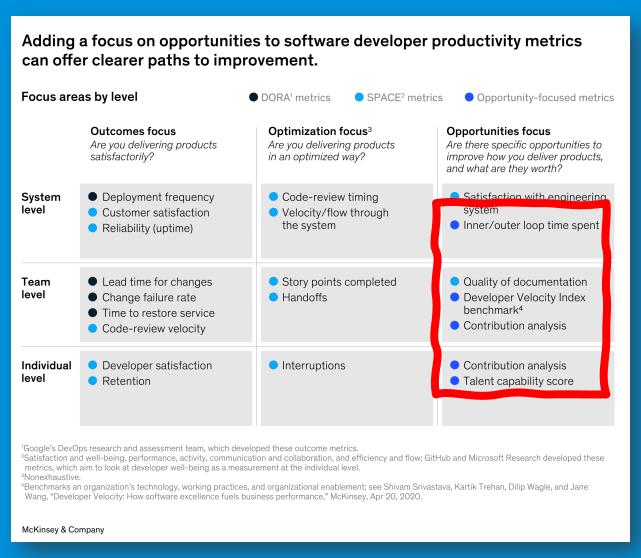


"This is a 1 ½ CIO Job."





Management & workers often have different incentives & motivations



A thriving organization focuses on satisfaction, flow, ease, happiness

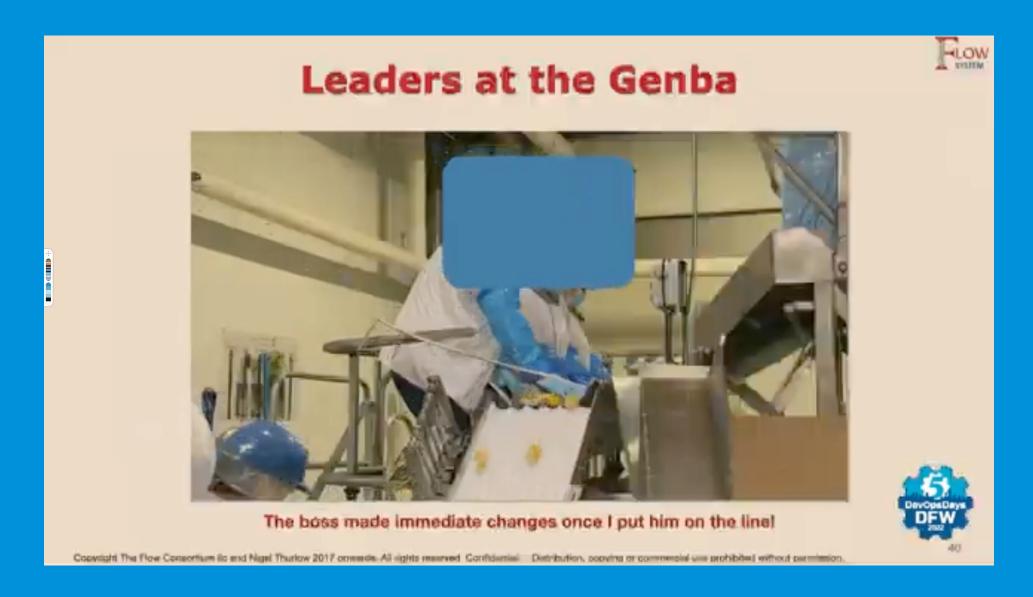
Causes of thriving	Because a developer is
Agency	1) able to voice disagreement with team definitions of success 2) has a voice in how their contributions are measured
Motivation & Self- Efficacy	1) motivated when working on code at work 2) can see tangible progress most of the time 3) is working on the type of code work they want to work on 4) is confident that even when working in code is unexpectedly difficult, they will solve their problems
Learning Culture	1) learning new skills as a developer2) able to share the things they learn at work
Support & Belonging	 supported to grow, learn, and make mistakes by their team agrees they are accepted for who they are by their team

	FEEDBACK LOOPS	COGNITIVE LOAD	FLOW STATE
PERCEPTIONS Human attitudes and opinions	 Satisfaction with automated test speed and output Satisfaction with time it takes to validate a local change Satisfaction with time it takes to deploy a change to production 	 Perceived complexity of codebase Ease of debugging production systems Ease of understanding documentation 	 Perceived ability to focus and avoid interruptions Satisfaction with clarity of task or project goals Perceived disruptive ness of being on-call
WORKFLOWS System and process behaviors	 Time it takes to generate CI results Code review turnaround time Deployment lead time (time it takes to get a change released to production) 	 Time it takes to get answers to technical questions Manual steps required to deploy a change Frequency of documentation improvements 	 Number of blocks of time without meet- ings or interruptions Frequency of unplanned tasks or requests Frequency of incidents requiring team attention
North star	 Overall perceived ease Employee engagement Perceived productivity 	•	

Management vs. workers often have different urgency & motivation to change

Exec's View	Work the Same	Transform!	Staff's View	Work the Same	Transform!
Compensation	\$	\$\$\$\$	Compensation	\$	\$
Risk	HIGH	HIGH	Risk	LOW	HIGH
Outcome			Outcome		

The people who do the work (should) decide how to change the work



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Siew Choo Soh, DBS Bank

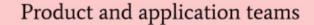


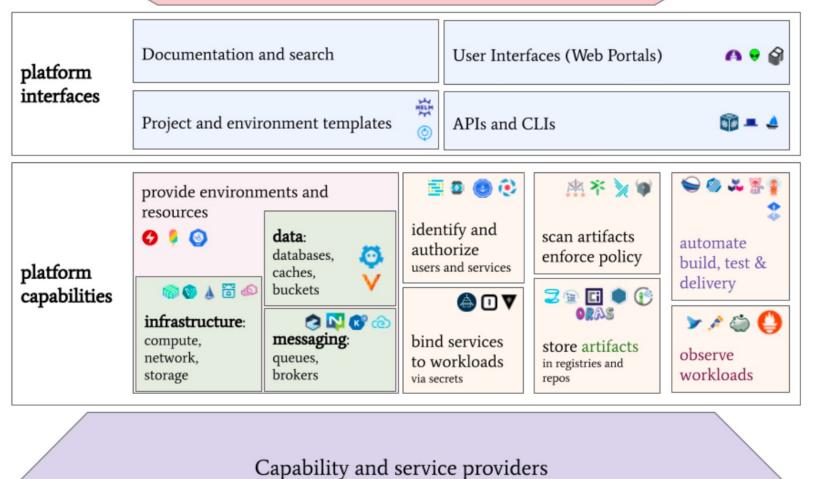
Containers will not fix your broken culture

BRIDGET KROMHOUT

COMPLEX SOCIO-TECHNICAL SYSTEMS ARE HARD; FILM AT 11 e focus so often on technical anti-patterns, neglecting similar problems inside our social structures. Spoiler alert: the solutions to many difficulties that seem technical can be found by examining our interactions with others. Let's talk about five things you'll want to know when working with those pesky creatures known as humans.

Source: <u>"Containers Will Not Fix Your Broken Culture,"</u> Bridget Kromhout, Dec 2017.





We are building this platform not for us, we are building it for Mercedes-Benz developers."

Thomas Müller, Mercedes-Benz

Find the Developer Toil, Confusion, Blockers

Find the Developer Toil, Confusion, Blockers

- What are we making?
- We have a strong vision for our product, and we're doing important work together every day to fulfill that vision.
- I have the context I need to confidently make changes while I'm working.
- I am proud of the work I have delivered so far for our product.
- I am learning things that I look forward to applying to future products.
- My workstation seems to disappear out from under me while I'm working.
- It's easy to get my workstation into the state I need to develop our product.
- What aspect of our workstation setup is painful?
- It's easy to run our software on my workstation while I'm developing it.
- I can boot our software up into the state I need with minimal effort.
- What aspect of running our software locally is painful? What could we do to make it less painful?
- It's easy to run our test suites and to author new ones.
- Tests are a stable, reliable, seamless part of my workflow.
- Test failures give me the feedback I need on the code I am writing.
- What aspect of production support is painful?

- We collaborate well with the teams whose software we integrate with.
- When necessary, it is within my power to request timely changes from other teams.
- I have the resources I need to test and code confidently against other teams' integration points.
- What aspect of integrating with other teams is painful?
- I'm rarely impacted by breaking changes from other tracks of work.
- We almost always catch broken tests and code before they're merged in.
- What aspect of committing changes is painful?
- Our release process (CI/CD) from source control to our story acceptance environment is fully automated.
- If the release process (CI/CD) fails, I'm confident something is truly wrong, and I know I'll be able to track down the problem.
- What aspect of our release process (CI/CD) is painful?
- Our team releases new versions of our software as often as the business needs us to.
- We are meeting our service-level agreements with a minimum of unplanned work.
- When something is wrong in production, we reproduce and solve the problem in a lower environment.

TECHNICAL IMPROVEMENTS

Daily deploys

+30% developer productivity

+78% operational efficiency

60% reduction in incidents

Repaying prod months->weeks->daily

BUSINESS IMPROVEMENTS

65% shift to in-app ordering

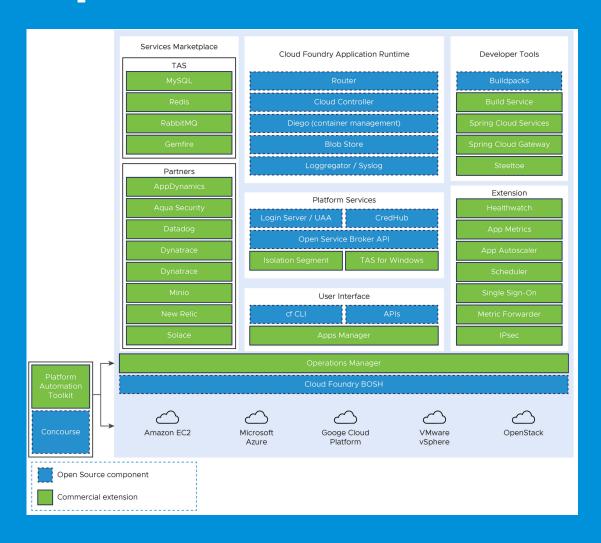
+46% enrollment rates

3 ½ weeks to retool loan program

6 months to launch a new business

142% ROI on platform investment

A fine selection of pre-shaved yaks https://tanzu.vmware.com





Thanks!



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