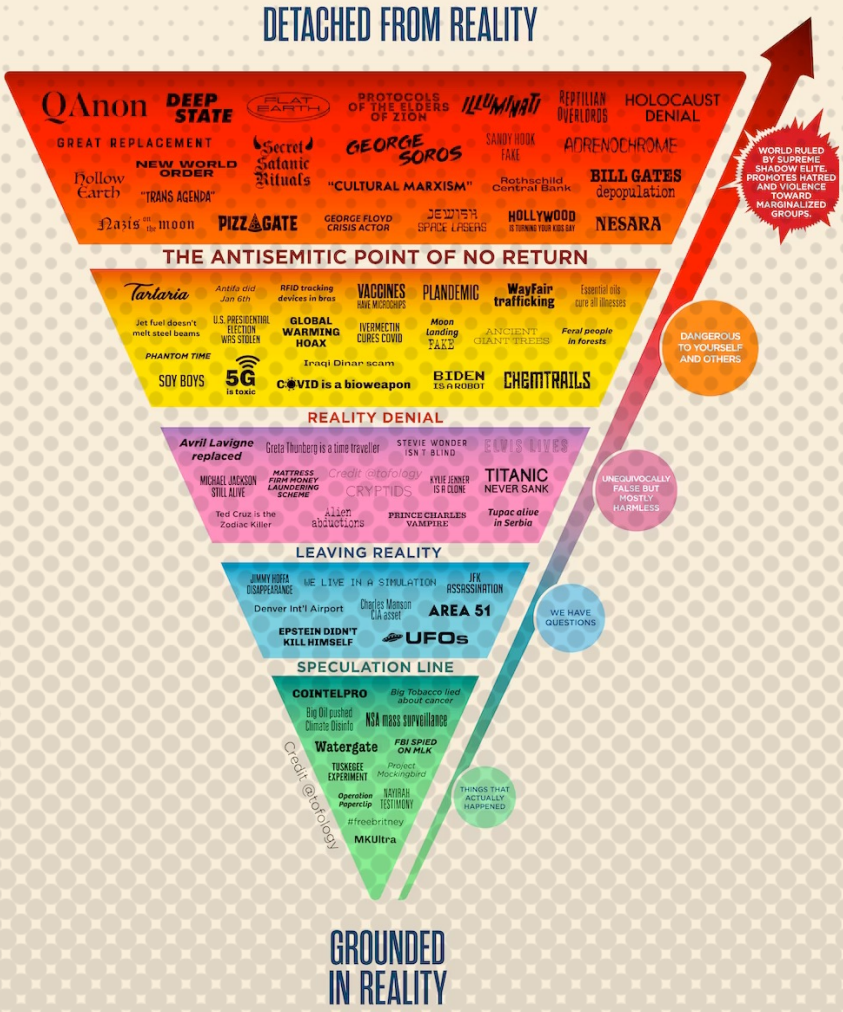
# DEVOPS... REFRAMED

## EMBRACING THE PATH TO DEVELOPER PRODUCTIVITY ENGINEERING

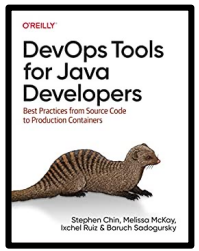
# CONSPIRACY THEORY?!

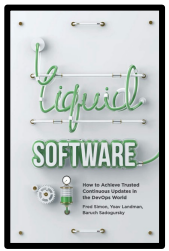
CHART BY ABBIE RICHARDS



# Baruch Sadogursky - @jbaruch

- Developer Productivity Advocate
- Gradle Inc
- Development -> DevOps -> #DPE



# SHOWNOTES

- speaking.jbaru.ch
- Slides
- Video
- All the links!

**AlphaCSP**
6 yrs 1 mo

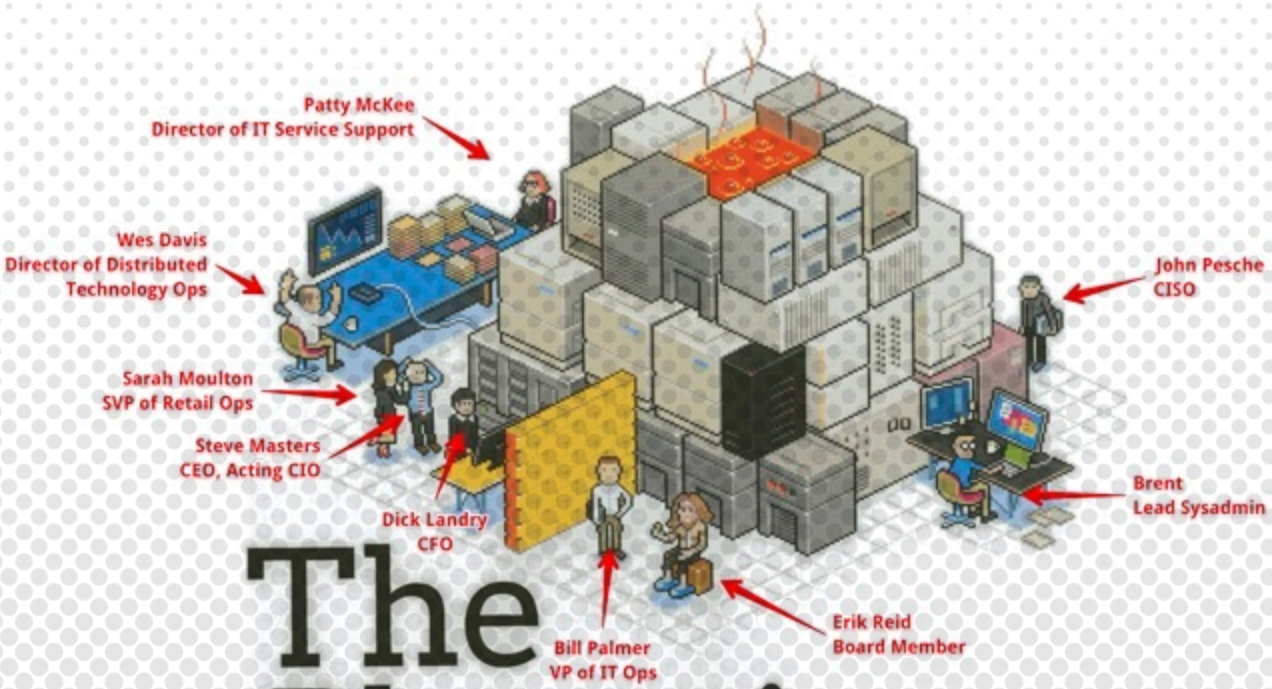
**Training Division Manager**
Jan 2007 - Oct 2010 · 3 yrs 10 mos

- Development and delivery of most of AlphaCSP courses on different Java-related topics and in different levels;
Among the customers: IDF, Cisco, IDI direct insurance, Rafael, PayPal, Opal, BMC, Malam, Checkpoint, HP Software and others.
- Development and delivery Artifactory training for JFrog customers world-wide;
Among the customers: Cisco, Sita, Ansys and others.
- JTeam – Extremely successful internal training program in AlphaCSP – ¼ of AlphaCSP personnel are JTeam alumni.
- Java department technical lead at MalamTeam Training Center – development and delivery of all Java courses.
- Named one of the best speakers in all AlphaCSP events through the years.

**Consultant & Architect**
Jan 2007 - Oct 2010 · 3 yrs 10 mos

Consulting, building architectures and design, mentoring, and developing in various Java-related projects on the topics, described in Specialties section above;
Among the customers: BMC, Logia, IDF, Starhome (Comverse), Malam, Cisco, IDI, IDIT, Isracard, Virtual Tweens, Amobee, SolarEdge, Checkpoint, Cadence, Evolven, ExLibris, Retalix, Schema, Time To Know and others.

**Senior Developer**
Oct 2004 - Jan 2007 · 2 yrs 4 mos
Working on various projects in BMC Software Israel




# The Phoenix Project

# NOT A SINGLE DEVELOPER!

Google

what is devops

About 350,000,000 results (0.40 seconds)

Amazon.com
https://aws.amazon.com › devops › what-is-devops

## What is DevOps? - DevOps Models Explained

DevOps is **the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at** ...

AWS DevOps Competency · What is Continuous Integration?

Atlassian
https://www.atlassian.com › devops

## What is DevOps?

DevOps is **a set of practices, tools, and a cultural philosophy that automate and integrate the processes between software development and IT teams**.

GitLab
https://about.gitlab.com › topics › devops

## What is DevOps?

DevOps is **a combination of software development (dev) and operations (ops)**. It is defined as a software engineering methodology which aims to integrate the work ...

Continuous Delivery (CD): Continuous deliver…
Agile: Agile development means taking iter…
Continuous Integration (CI): The practice of re...
Version control: The fundamental practice o…

DevOps explained · The four phases of DevOps · The DevOps lifecycle and how...

Microsoft
https://learn.microsoft.com › en-us › what-is-devops

## What is DevOps?

Jan 25, 2023 — DevOps **enables coordination and collaboration between formerly siloed roles like development, IT operations, quality engineering, and security**.

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DEVOPS?
OPS!

# Y THO...

# As a Linux system administrator, how do I shift my career to DevOps?

**Disha Rathod**
DevOps Online Trainer (2013–present) · 5y

Hi,

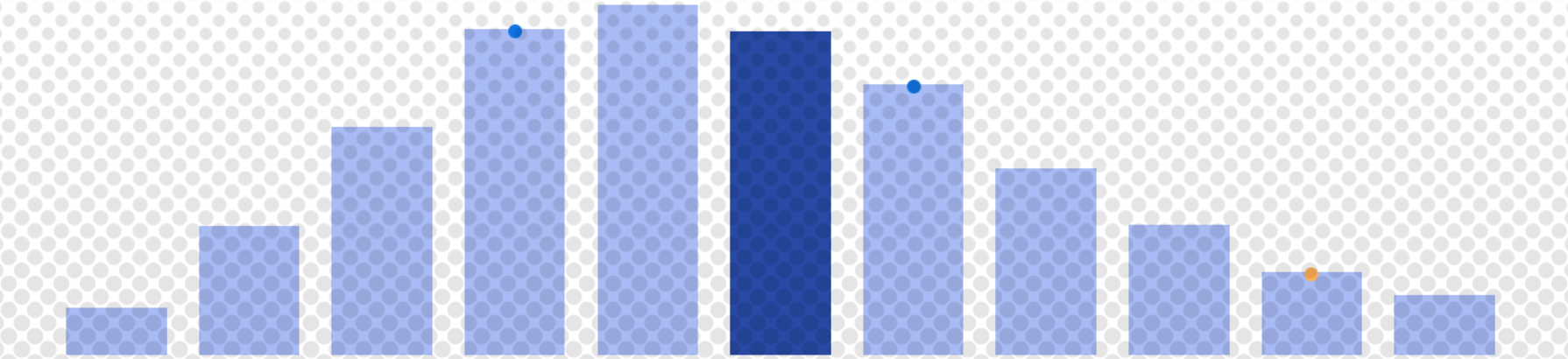
Being a Linux administrator will help you to easily get started with DevOps because it starts with learning Linux fundamentals, DevOps also includes cloud computing concepts like AWS. More importantly DevOps is all about tools, it comes with hundreds of tools. Gits, Chef, Maven, Jenkins, Puppet, Docker are modern and most popular DevOps tools.

So in order to move into DevOps industries you should have prominent knowledge following concepts

1. Linux Fundamental; Shell Scripting
2. Cloud Computing (AWS)
3. DevOps Fundamentals
4. Software Development Life Cycle
5. Continuous Integration, Deployment, and Delivery.
6. DevOps T[illegible]aven, Jenkins, P[illegible] Docker etc.

# System Administrator Salary

Yearly | Monthly | Weekly | Hourly | Table View



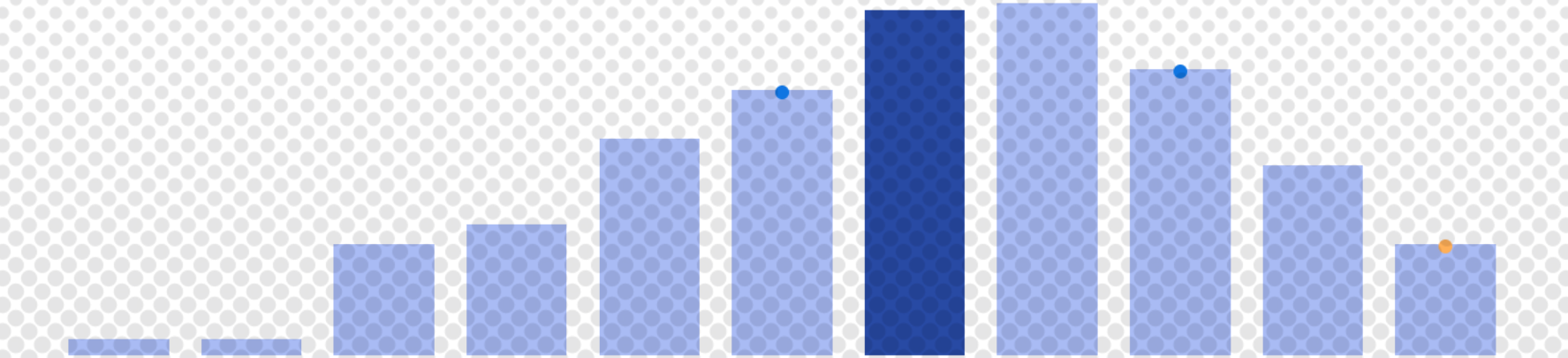
$33,000 National Average $121,000

$76,644 /year

$37 /hour

# Devops Engineer Salary

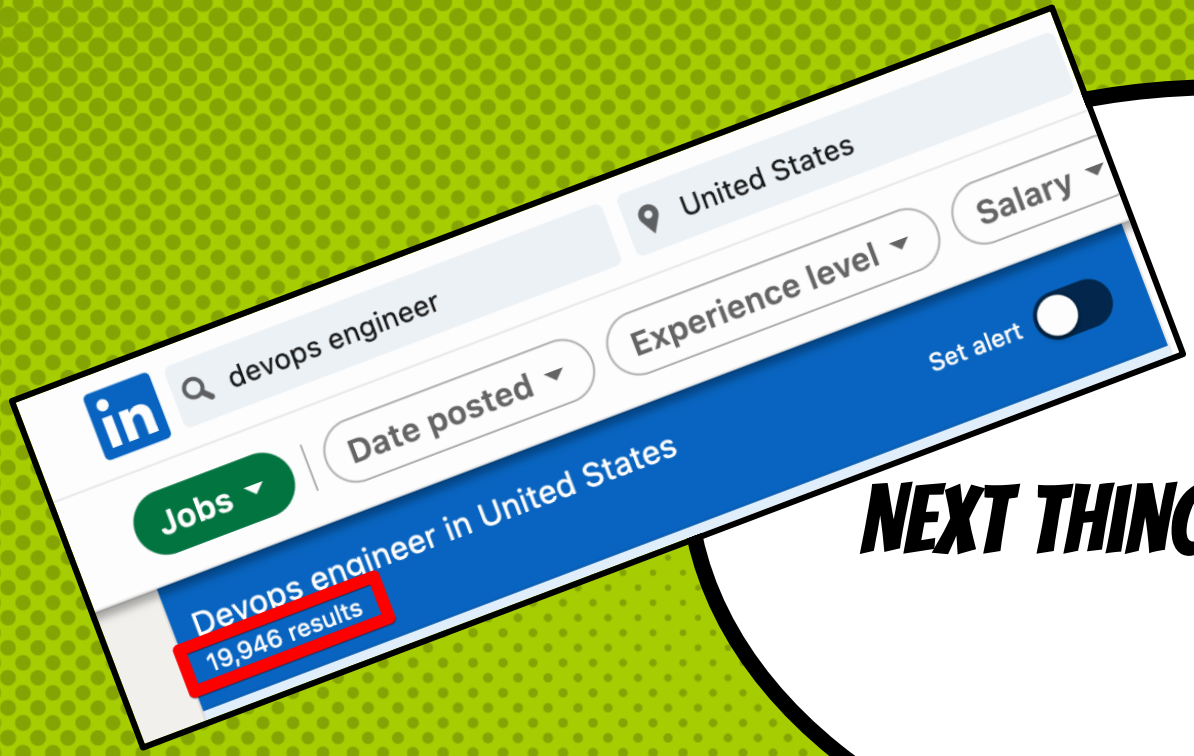
**Yearly** Monthly Weekly Hourly Table View



$38,500 National Average $180,500

$127,036 /year

$61 /hour




NEXT THING YOU KNOW...

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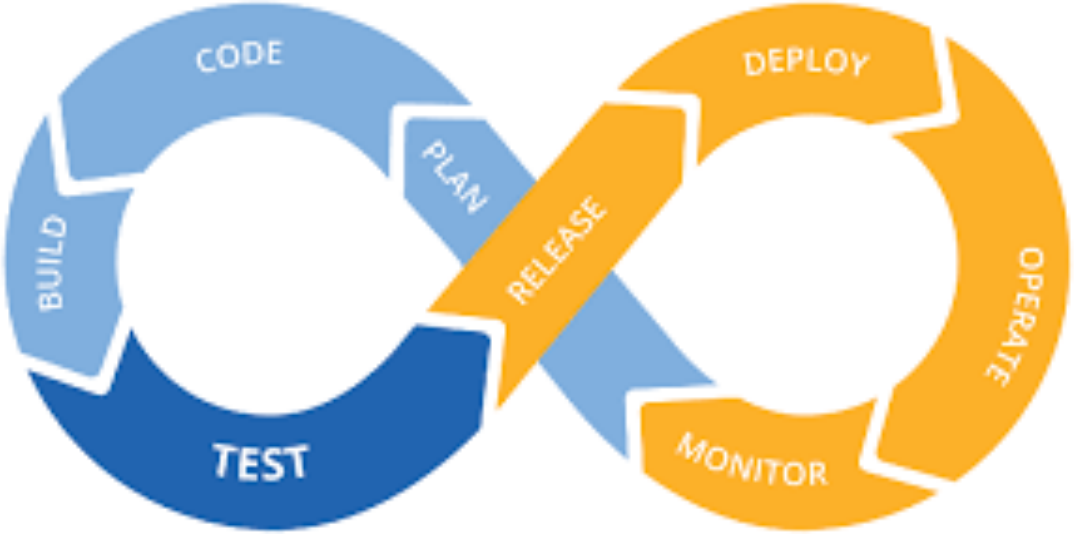
Products
Solutions
Pricing
Documentation
Learn
Partner Network
AWS Marketplace
Customer Enablement
Events
Explore More
Contact Us
Support
Training and Certification
Get Trained
Get Certified
Develop Your Team
AWS Partner Training
AWS Certified DevOps Engineer - Professional
Learn more about this certification and AWS resources that can help you prepare
Schedule an exam
Explore exam prep

AND THIS:

# RAGE!

## (BUT WE'LL GET TO IT LATER)

BBC NEWS | MUNDO
Parrot learns how to ask “Why?” repeatedly and is promoted to Engineering Manager


CODE
PLAN
BUILD
TEST
RELEASE
DEPLOY
OPERATE
MONITOR

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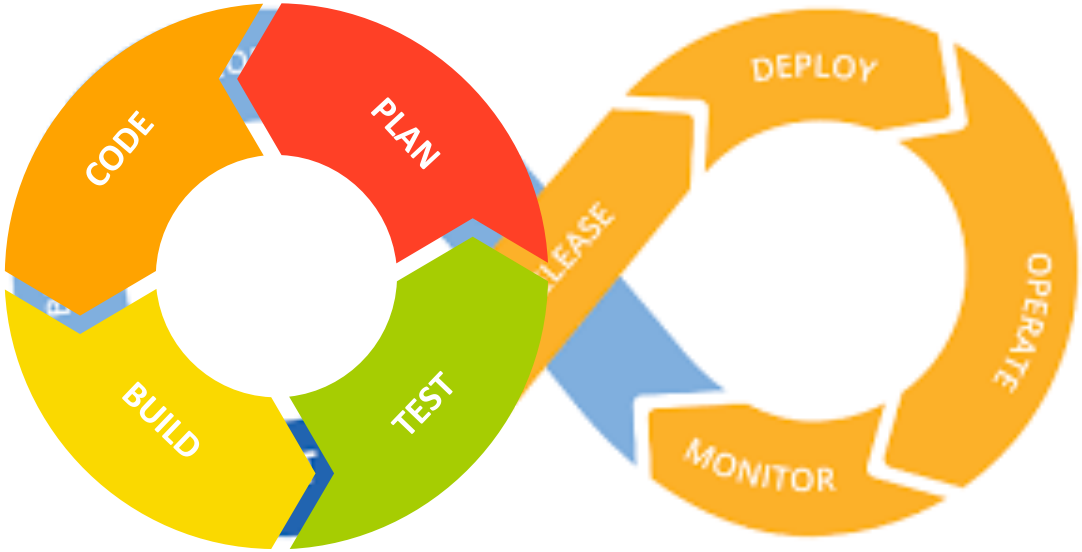
# AGILE!


CODE
PLAN
BUILD
TEST
RELEASE
DEPLOY
OPERATE
MONITOR

DEVOPS RESEARCH & ASSESSMENT

Google Cloud

# Accelerate State of DevOps Report 2023

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| Time Spent | Elite | High |
| --- | --- | --- |
| **NEW WORK** | **50%** | **50%** |
| Unplanned work and rework | 19.5% | 20%[a] |
| Remediating security issues | 5% | 5%[b] |
| Working on defects identified by end users | 10% | 10%[c] |
| Customer support work | 5% | 10% |

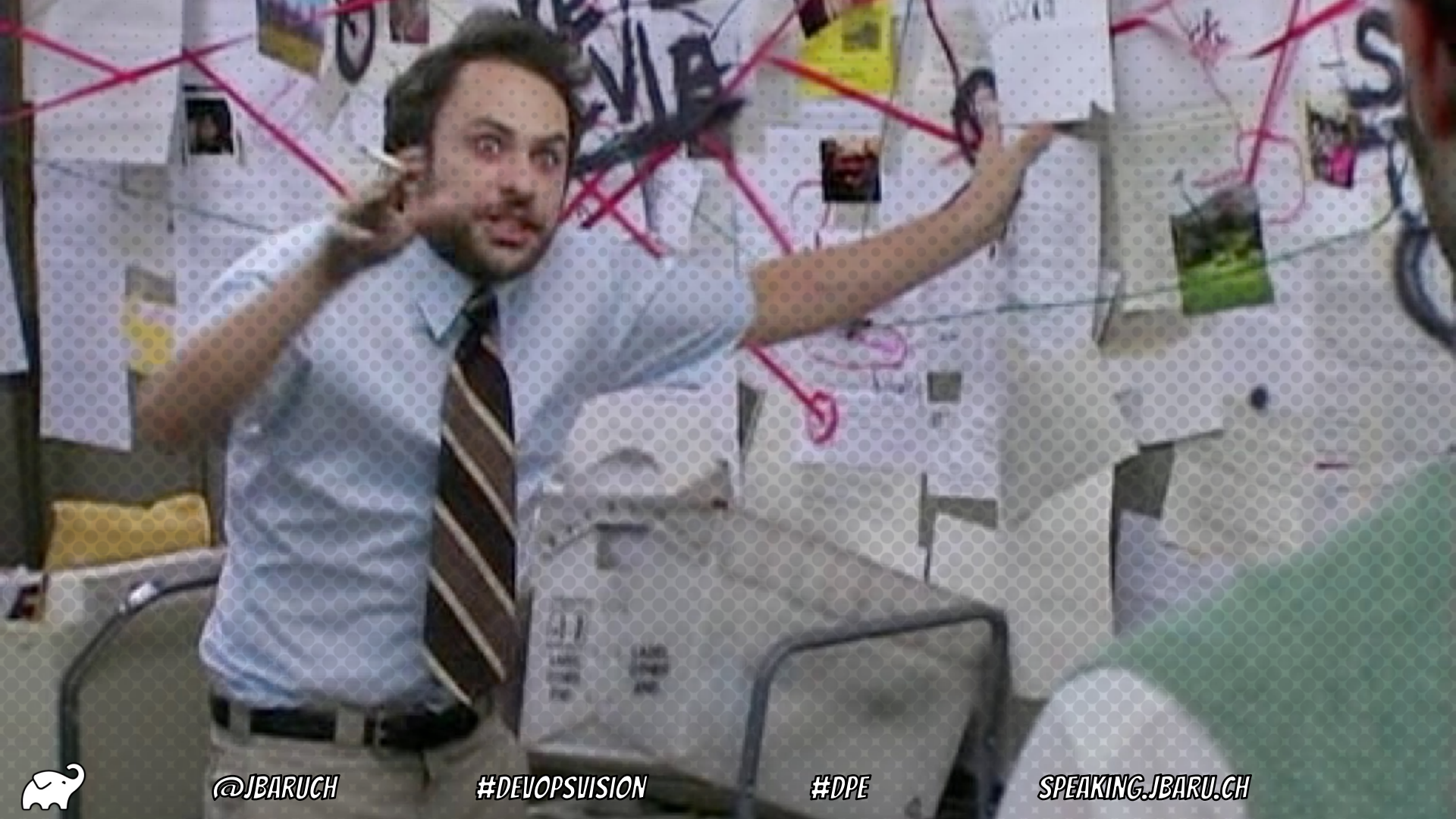
# TYPES OF WORK ACCORDING TO DEVOPS

| | |
|---|---|
| Planned Work | Business projects or new features |
| Internal Projects | Server migrations, software updates and so on |
| Changes | Driven by feedback on completed work |
| Unplanned Work | Support escalations and emergency outages |

# SO FASCINATING...

# TYPES OF WORK ACCORDING TO DEVELOPERS

| | |
|---|---|
| New Features | Writing code |
| Refactoring | Writing code |
| Bug Fixes | Writing code |



# Manifesto for Software Craftsmanship

**Raising the bar.**

As aspiring Software Craftsmen we are raising the bar of professional software development by practicing it and helping others learn the craft. Through this work we have come to value:

Not only working software,
but also **well-crafted software**

Not only responding to change,
but also **steadily adding value**

Not only individuals and interactions,
but also **a community of professionals**

Not only customer collaboration,
but also **productive partnerships**

That is, in pursuit of the items on the left we have found the items on the [illegible] indispensable.

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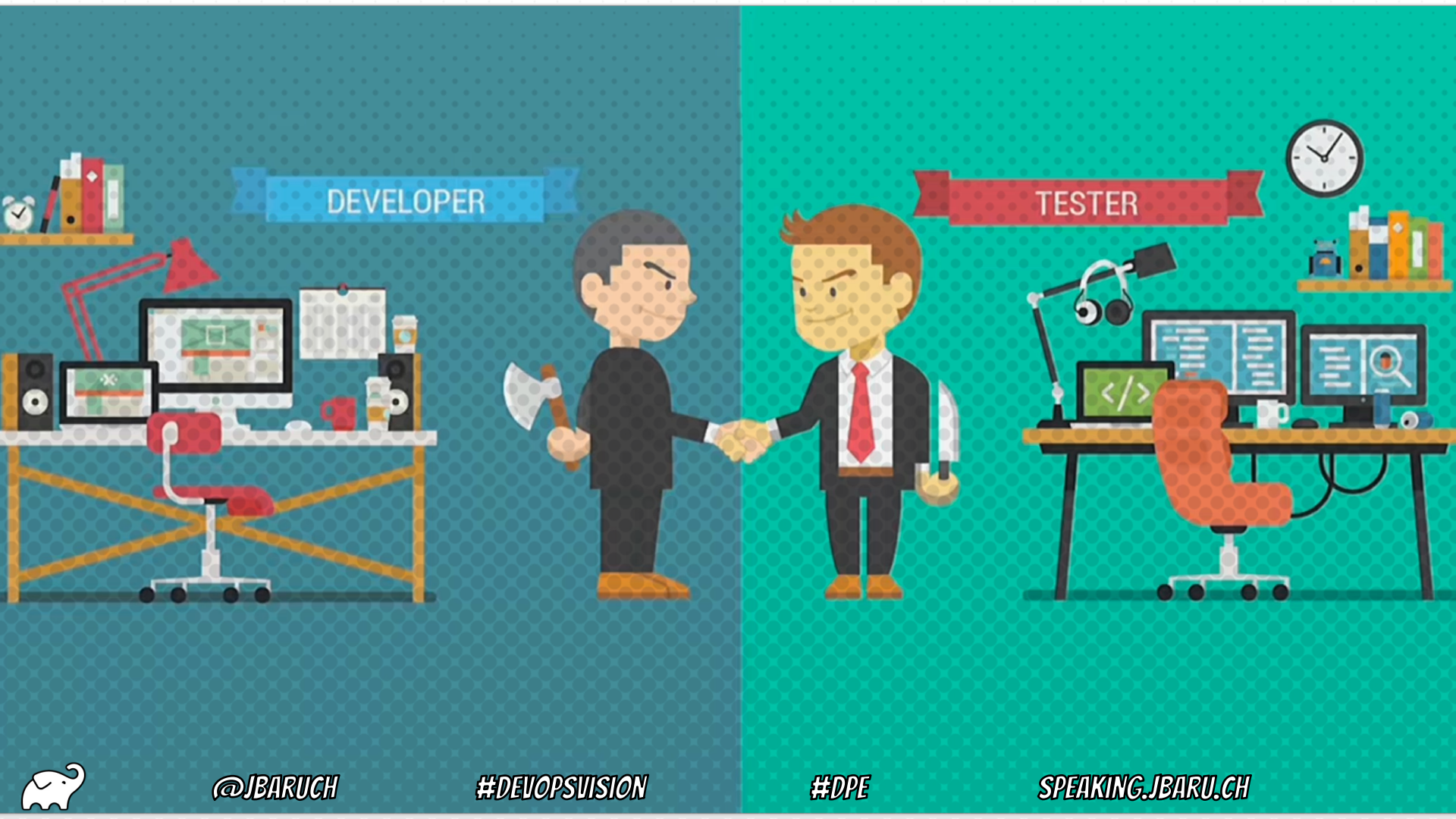
# Software craft-person definition of done

- × We got what they want
- × Clear code
- × Easy to deploy
- × Non-func reqs – ✓
- × No new tech dept
- × Tests – ✓
- × QA are happy
- × Team lead is happy
- × Product owner is happy – (i.e. customer is happy)


DEVELOPER
TESTER
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TRACTORMEN, IMPROVE THE QUALITY OF TRACTOR-TRAILER TRACKING!

INTERNET ARCHIVE

# WayBack Machine

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Get a User ID

GO

Returning Users: Log On

User ID:

Password:

Remember my User ID

Forgot User ID/Password?

Log On

Personal Banking

- Checking
- Credit Cards
- Savings
- CDs
- Debit Cards
- Online Banking & Bill Pay

Business

- Business Banking Revenues up to $10MM
- Commercial Banking Revenues over $10MM
- Business Credit Cards

Personal Lending

- Home Equity Loans & Lines
- Mortgage
- Auto/Vehicle Loans
- Student Loans

Insurance & Investing

- Insurance
- Investing
- Retirement Planning

Get the Details

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- Premier Platinum Banking Exclusive banking and investment benefits for clients with higher balances

News & Announcements

- U.S. Armed Forces Overseas Please contact us if you need assistance with your Chase accounts.
- Chase offers Zero-Fees! For academic year 2007-2008 the origination fee will be paid on all Federal Stafford Loans that Chase funds directly to students.
- Fair Lending & HMDA Data
- Chase Clear & Simple Expands

Security Center Highlights

Chase helps keep you safe and informed.

- Enhanced online security to help prevent fraud.
- Scams involving advance fees and cashier's check.
- Online fraud and e-mail scams
- Ways we protect you
- How you can protect yourself

Enter the Chase "Log On to Cash In" Sweepstakes.

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TO ENSURE QUALITY

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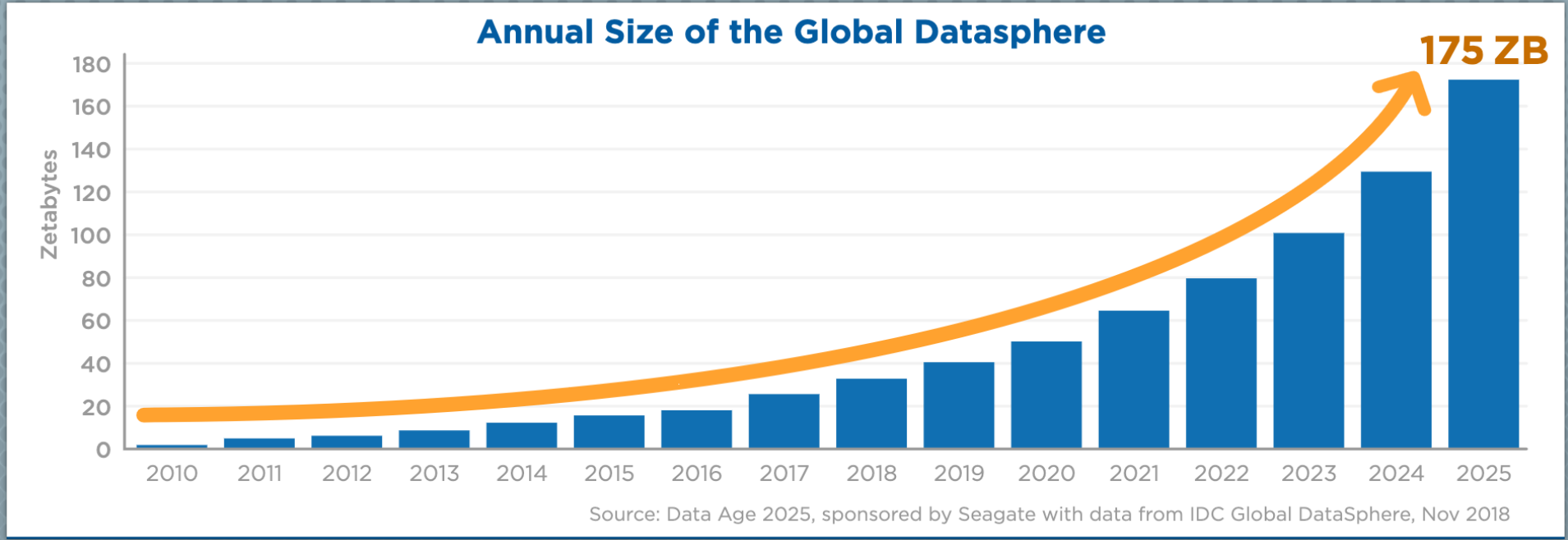
# CODE QUALITY IS NOT ENOUGH



STAGING SERVER
JOLLY WHERE THE TIMES
WHEN WE COULD TEST EVERYTHING
BEFORE DEPLOYING TO PRODUCTION
1985 - 2015

# WHAT DO WE DO?!

CONTROLLED ROLLOUT
CANARY DEPLOYMENTS
PROGRESSIVE DELIVERY
FEATURE FLAGS
OBSERVABILITY
ROLLBACKS
ON-CALL
BLAST RADIUS
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PRODUCTION STEAMS ITS WAY TO THE DEVELOPERS!

WELCOME TO ON-CALL!
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#DPE
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# SOFTWARE CRAFT-PERSON DEFINITION OF DONE

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- × Team lead is happy
- × Product owner is happy – (i.e. customer is happy)
- × DevOps are happy

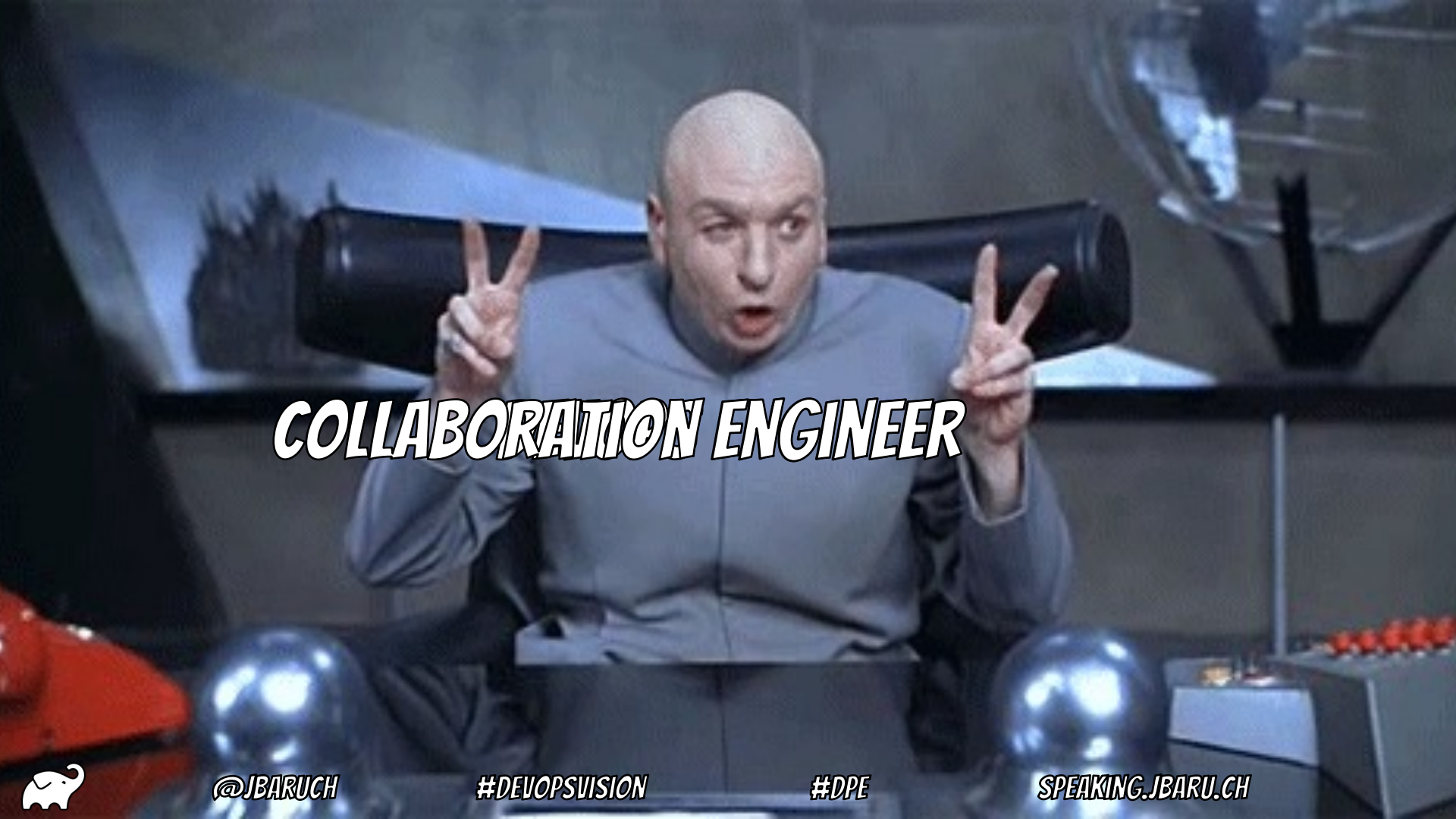
# WHO IS THIS "DEVOPS" PERSON?!

# HELLO!

I am Baruch and I have an obsession

# HOT TAKE:

# "DEVOPS ENGINEER" IS NOT A THING


COLLABORATION ENGINEER

WHAT YOU SEE WHEN
YOU HEAR THE TERM
"DEVOPS TEAM"
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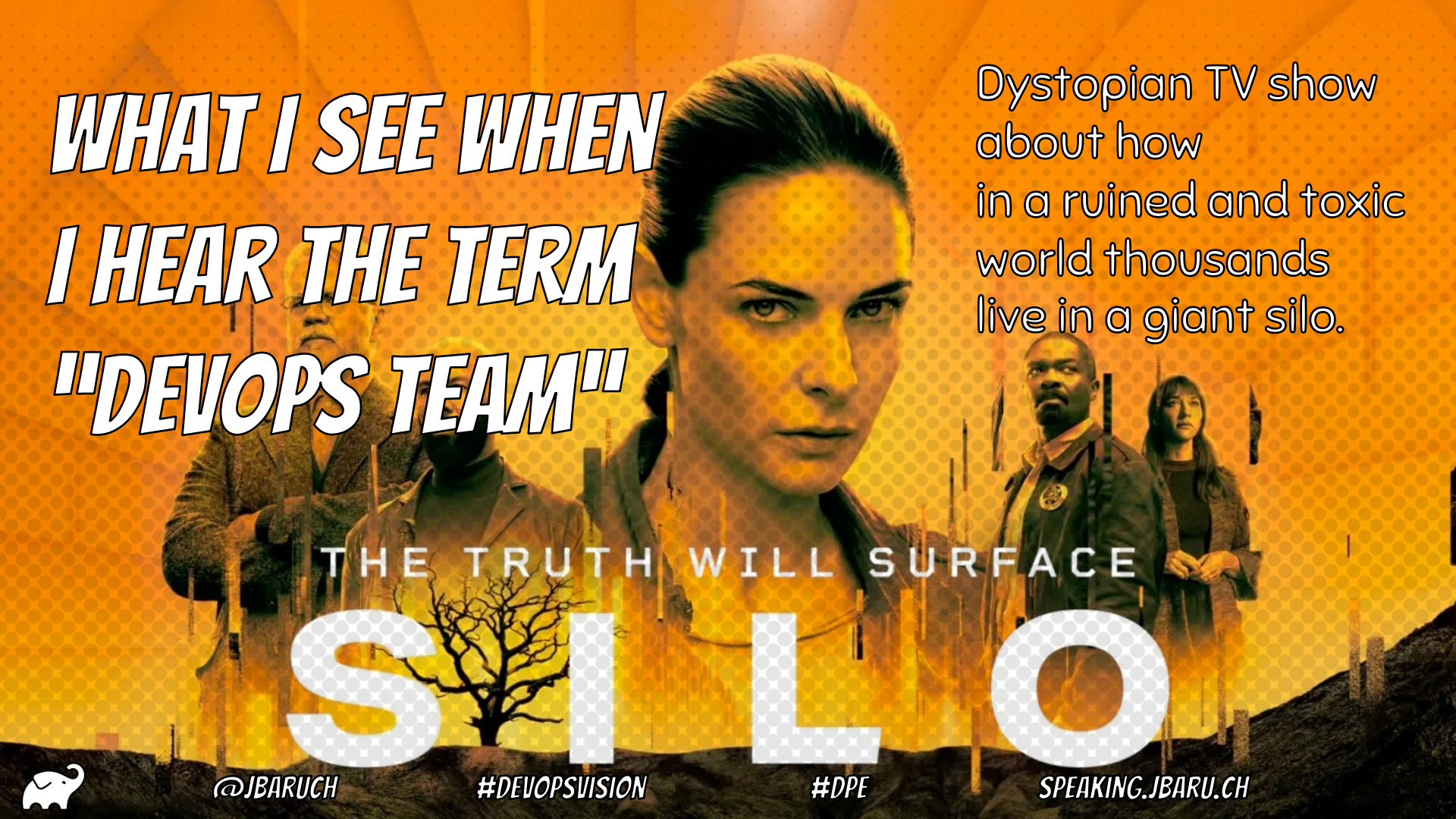
# WHAT I SEE WHEN I HEAR THE TERM "DEVOPS TEAM"




Dystopian TV show about how in a ruined and toxic world thousands live in a giant silo.

# LET'S BREAK DOWN THIS SILO!

## THE RISE OF THE DEVDEVOPS!

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# Engineering Aspect of DevOps

Jokes Aside

Class SRE implements DevOps.

NO ONE WANTS TO BE A "SITE RELIABILITY ENGINEER"
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WELCOME TO OUR NEW LORD
AND SAVIOR:
"PLATFORM ENGINEERING"!

"DEVOPS ENGINEERS ARE REBRANDING THEMSELVES AS PLATFORM ENGINEERS"

Scott Shaw
Chief Technology Officer,
APAC, Thoughtworks

EVERYBODY WANTS TO BE A
"PLATFORM ENGINEER"
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platform engineering and devops

Images | News | Jobs | Job description | Videos | Salary | Shopping | Maps | Books

About 33,800,000 results (0.41 seconds)

The New Stack
https://thenewstack.io › Blog

## How Is Platform Engineering Different from DevOps and ...

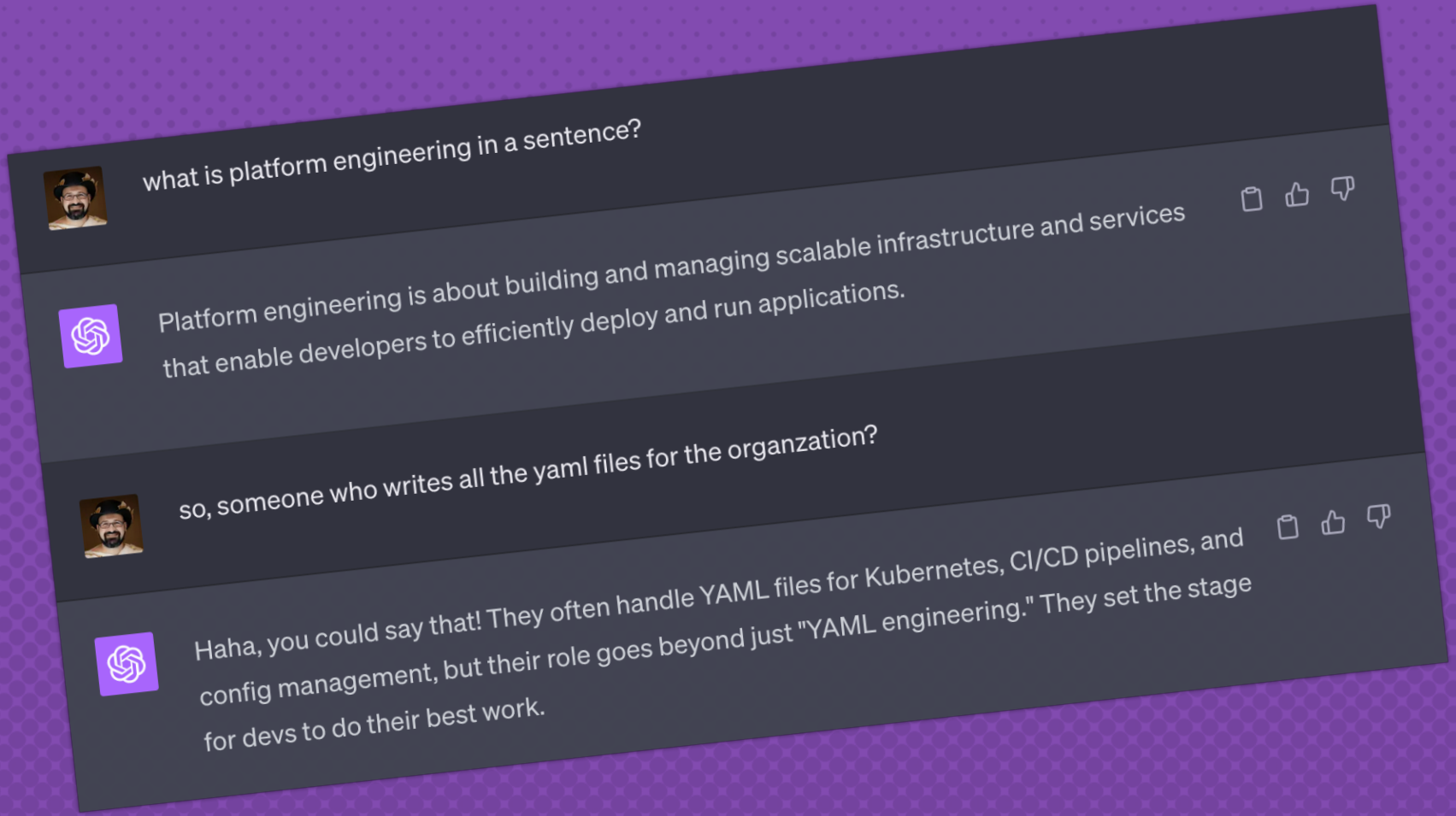
Sep 16, 2022 — **Platform engineering** is the next stage of the **DevOps** evolution. It encompasses the best intentions of the cultural shifts that came before it.

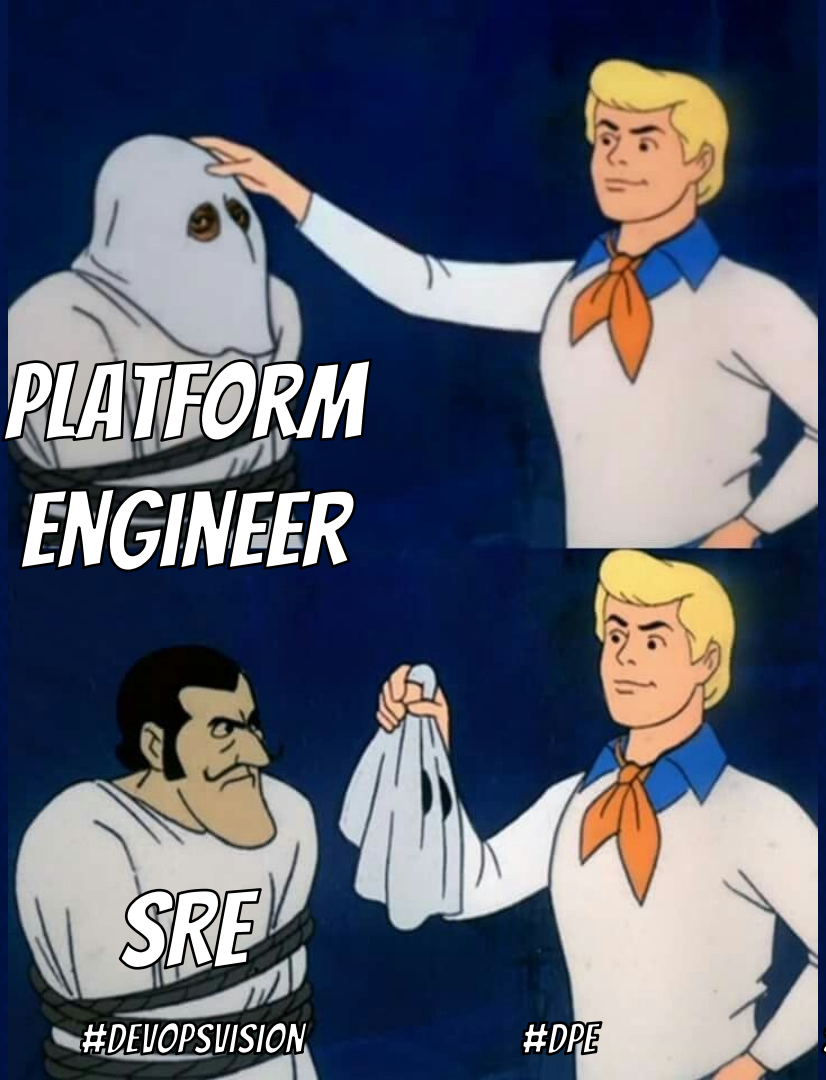
TechTarget
https://www.techtarget.com › searchitoperations › tip › Pl...

## Platform engineering vs. DevOps: What's the difference?

Apr 13, 2023 — **DevOps** teams create the software, with a focus on accelerating delivery and enhancing quality, whereas **platform engineers** implement and manage ...

People also ask


what is platform engineering in a sentence?
Platform engineering is about building and managing scalable infrastructure and services that enable developers to efficiently deploy and run applications.
so, someone who writes all the yaml files for the organzation?
Haha, you could say that! They often handle YAML files for Kubernetes, CI/CD pipelines, and config management, but their role goes beyond just "YAML engineering." They set the stage for devs to do their best work.


PLATFORM ENGINEER
SRE

# SOFTWARE CRAFT-PERSON DEFINITION OF DONE

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- × Team lead is happy
- × Product owner is happy – (i.e. customer is happy)
- × PEs are happy

# What makes platform engineers happy

- Modular
- Deployable
- Observable
- Scalable
- Upgradable
- Downgradable

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# The Twelve Factors

**I. Codebase**
One codebase tracked in revision control, many deploys

**II. Dependencies**
Explicitly declare and isolate dependencies

**III. Config**
Store config in the environment

**IV. Backing services**
Treat backing services as attached resources

**V. Build, release, run**
Strictly separate build and run stages

**VI. Processes**
Execute the app as one or more stateless processes

**VII. Port binding**
Export services via port binding

**VIII. Concurrency**
Scale out via the process model

**IX. Disposability**
Maximize robustness with fast startup and graceful shutdown

**X. Dev/prod parity**
Keep development, staging, and production as similar as possible

**XI. Logs**
Treat logs as event streams

**XII. Admin processes**
Run admin/manag[illegible] processes

WELCOME TO DEVOPS!
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# HOT TAKE:

# WE FIGURED THE "DEVOPS" SHIT OUT. DONE.

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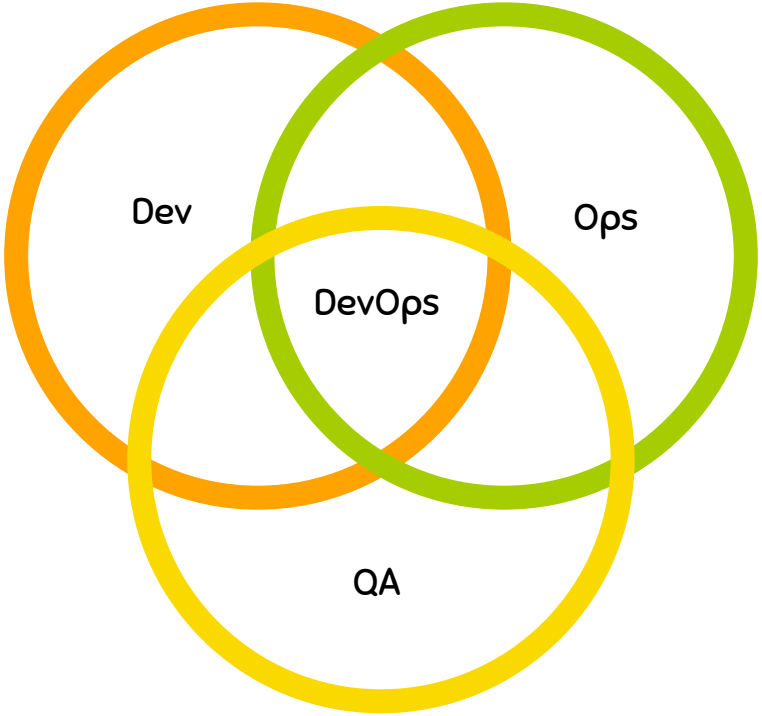
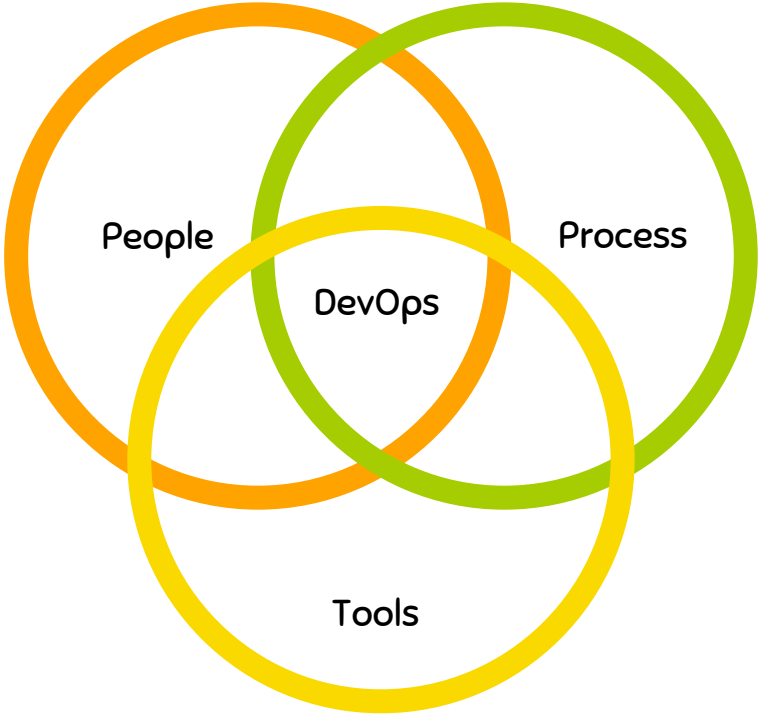
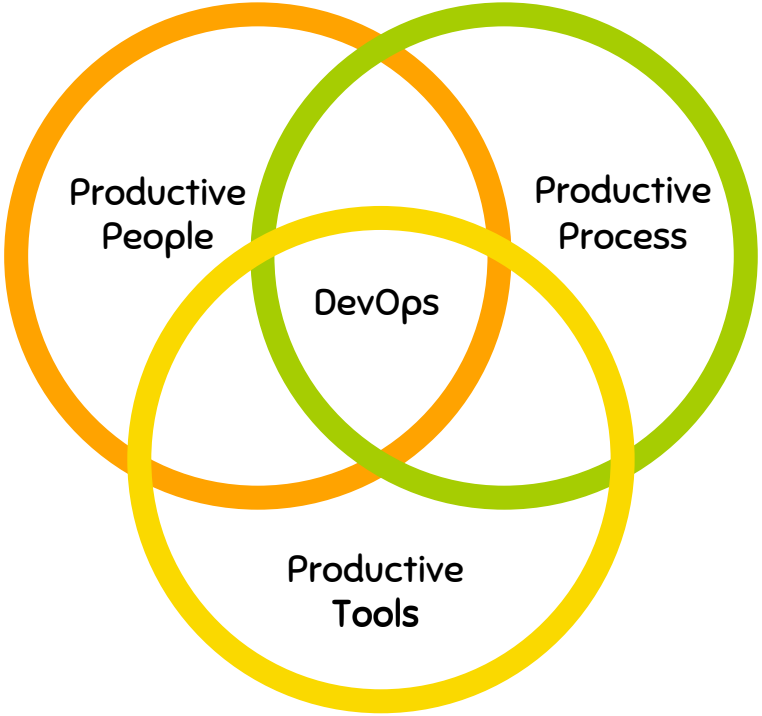
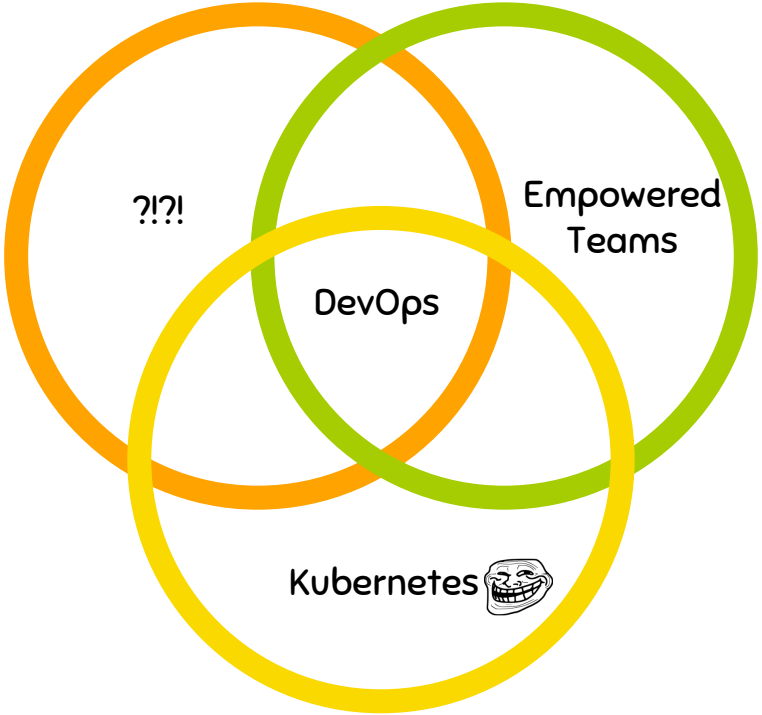
# 10 YEARS OF TRYING... AND DEVELOPERS STILL AREN'T EXCITED ABOUT DEVOPS

# HOW DO WE GO FROM 😕 TO 😁 ?!


Dev
Ops
DevOps
QA


People
Process
DevOps
Tools


Productive
People
Productive
Process
DevOps
Productive
Tools


?!?!
Empowered Teams
DevOps
Kubernetes

# THE PAIN IS REAL

## Builds and Tests are Slow!

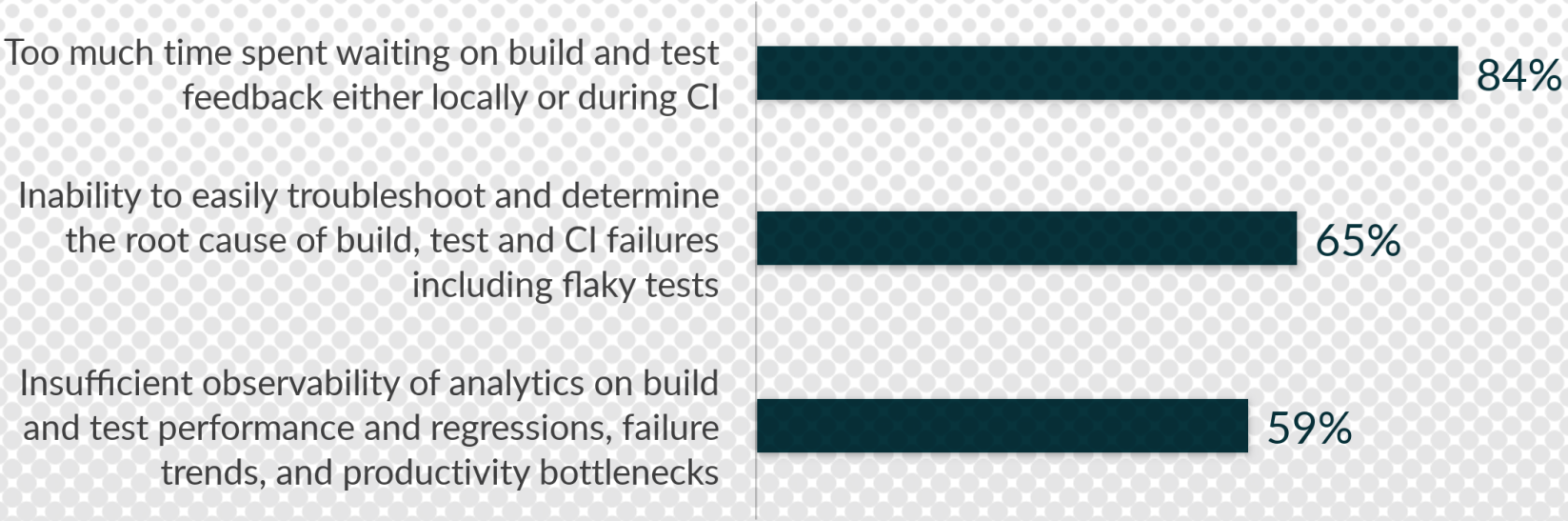
90% of surveyed IT organizations experienced challenges with too much time spent waiting on build and test feedback.

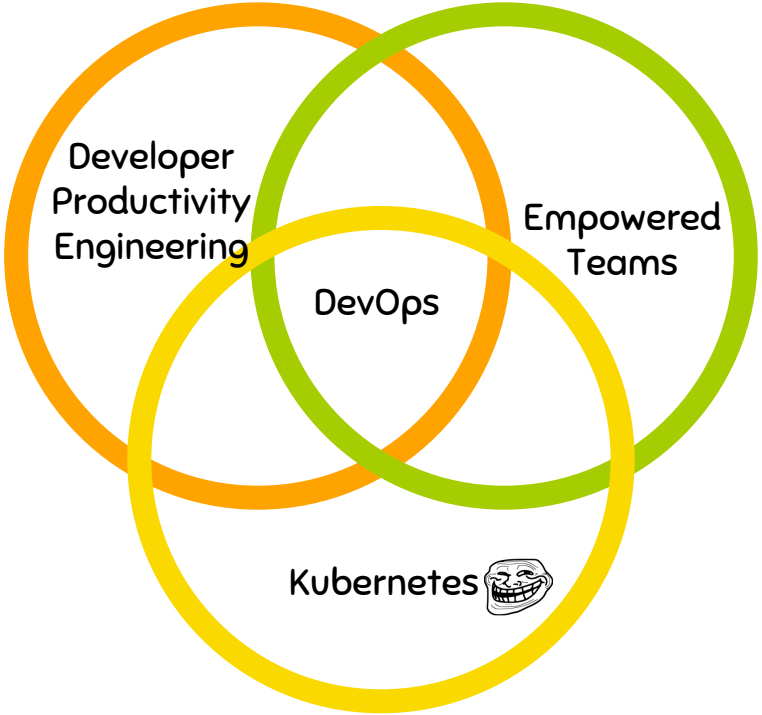
TechValidate
by SurveyMonkey

Validated Published: Sep. 25, 2023 TVID: AE3-632-6FE

# Development Pains are Widespread

Which of the following challenges or pain points did your organization experience prior to implementing Developer Productivity Engineering?




Developer
Productivity
Engineering
Empowered
Teams
DevOps
Kubernetes

# DEVELOPER PRODUCTIVITY ENGINEERING

Foster Faster Feedback

Collaborate through Effective Tooling

Embrace Rigorous Observability for Proactive Improvement

Eliminate Toil for Developers

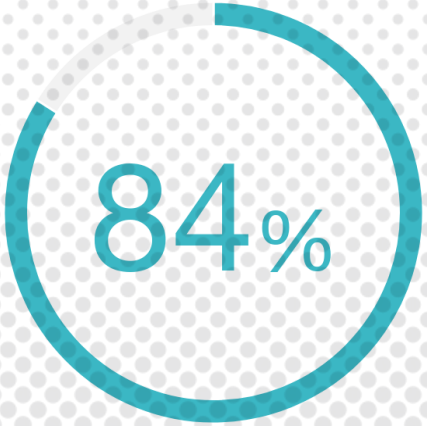
Prioritize Automation and Eliminate Bottlenecks

Dedicated Organizational Mindset

Outcomes Over Output

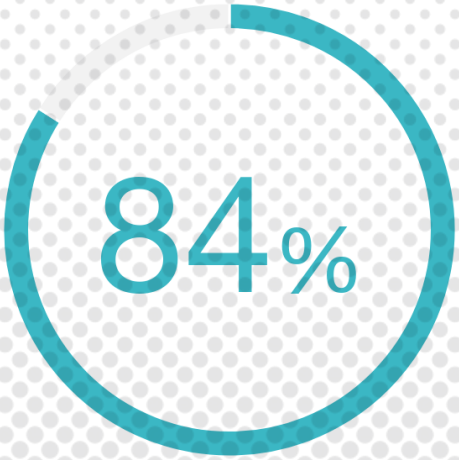
# DPE Dramatically Improves Productivity

Almost every surveyed IT organization agreed that “Since integrating Developer Productivity Engineering into our development process, the time savings we experienced on build and test cycle times have dramatically improved developer productivity.”



# DPE Fosters Developer Joy

84% of surveyed users agree that DPE's impact on their toolchain makes their job more enjoyable.




TechValidate
by SurveyMonkey

Validated Published: Sep. 25, 2023 TVID: 930-05A-A5F

# But DPE is not my job!

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# But DevOps is not my job!

# DEVOPS VS DPE

| | DEVOPS | DPE |
|---|---|---|
| OUTCOME | The product | More productive work |
| URGENCY | On everybody's minds | Slips away |
| ORG STRUCTURE | Organizational culture | Specialized team |

THE BEST DPE ORGANIZATIONS
BUILD FOCUSED TEAMS

snowflake HOME BROWSE JOBS TEAMS UNIVERSITY LIFE AT SNOWFLAKE

## ENGINEERING MANAGER - DEVELOPER PRODUCTIVITY ENGINEERING

San Mateo, California, USA

Engineering 2500

LinkedIn Careers Why LinkedIn

## Productivity & IT

Build and refine the technology, tools, and systems our employees need to succeed. Our Productivity and IT team includes Developer Productivity and Enterprise Productivity.

See team jobs

## Senior Software Engineer - Platforms and Engineering Productivity

Microsoft · Mountain View, CA (Remote) 1 day ago · 58 applicants

$112,000/yr - $238,600/yr (from job description) · Full-time

10,001+ employees · Software Development

79 connections work here · 1 company alum works here · 59 school alu

Skills: Continuous Delivery (CD), Customer-Focused Selling, +8 more

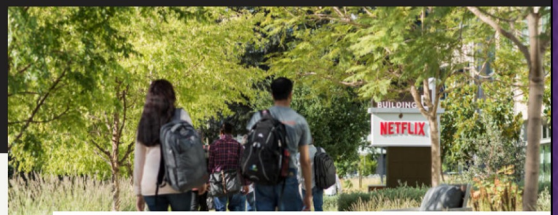
View verifications related to this job post. Show all

## How We Improved Developer Productivity for Our DevOps Teams

August 27, 2020
Published by Maria Jernström and Jason Palmer

Across Spotify, our teams diligently strive to fulfill our mission to "unlock the potential of human creativity by giving millions of creative artists the opportunity to live off their work, and billions of fans

NETFLIX JOBS




## Senior Fullstack Software Engineer, Developer Productivity

Remote, United States Remote, United States

Partnership

elastic Products Customers Learn Company Pricing

All Jobs / Engineering / Cloud - Tech Lead, Engineering Productivity

## Cloud - Tech Lead, Engineering Productivity

Apply

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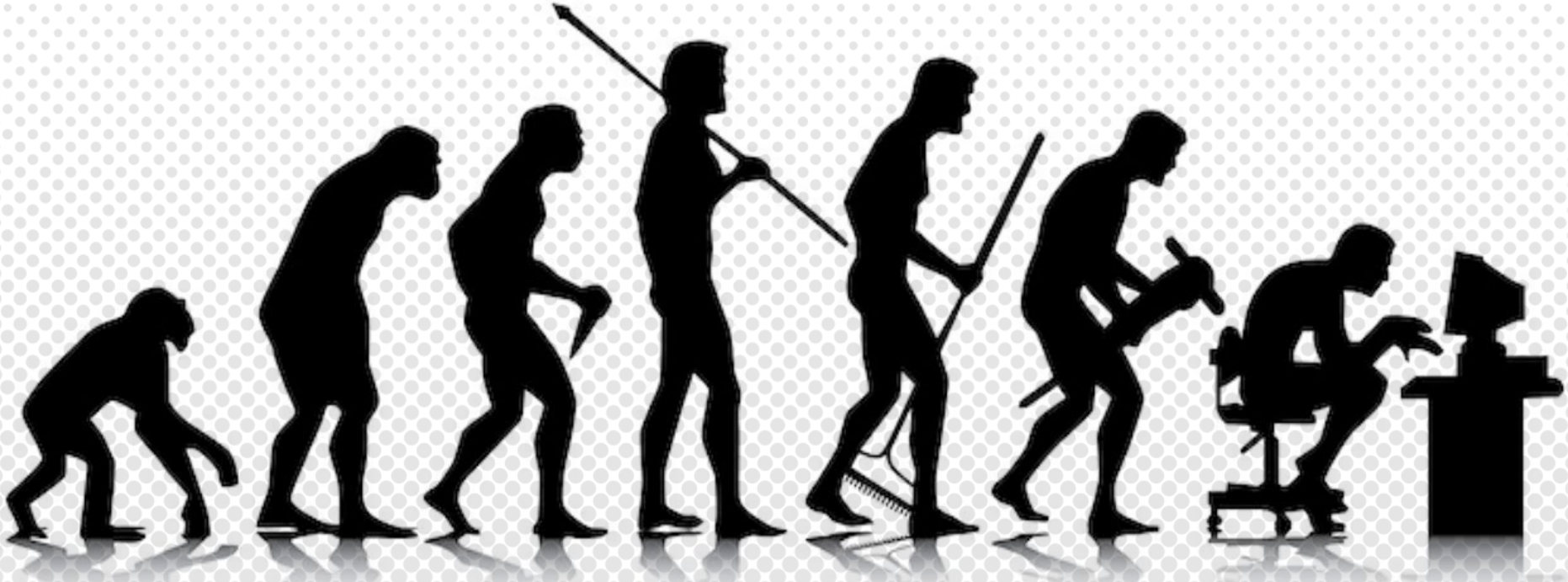

# DEVOPS? SRE? PE? DPE?

- DevOps mainly solves Ops' concerns
- It is is a collaborative methodology
- It needs engineering implementation
- Call it SRE or call it PE, someone has to write all those YAML files
- But what about People Productivity?
- DPE has the answer and it's another pillar of DevOps Engineering implementation

# LEARN MORE AND TRY IT TODAY!

- Take the Gradle/Maven Speed Challenge
- Be DPE Agent of Change!
- Read the DPE Handbook
- Watch the DPE Summit videos

SPEAKING.JBARU.CH

# Q&A AND SOCIAL ADS

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