

DEVOPS...

REFRAMED

***EMBRACING THE PATH TO DEVELOPER
PRODUCTIVITY ENGINEERING***

CONSPIRACY THEORY?!

DETACHED FROM REALITY

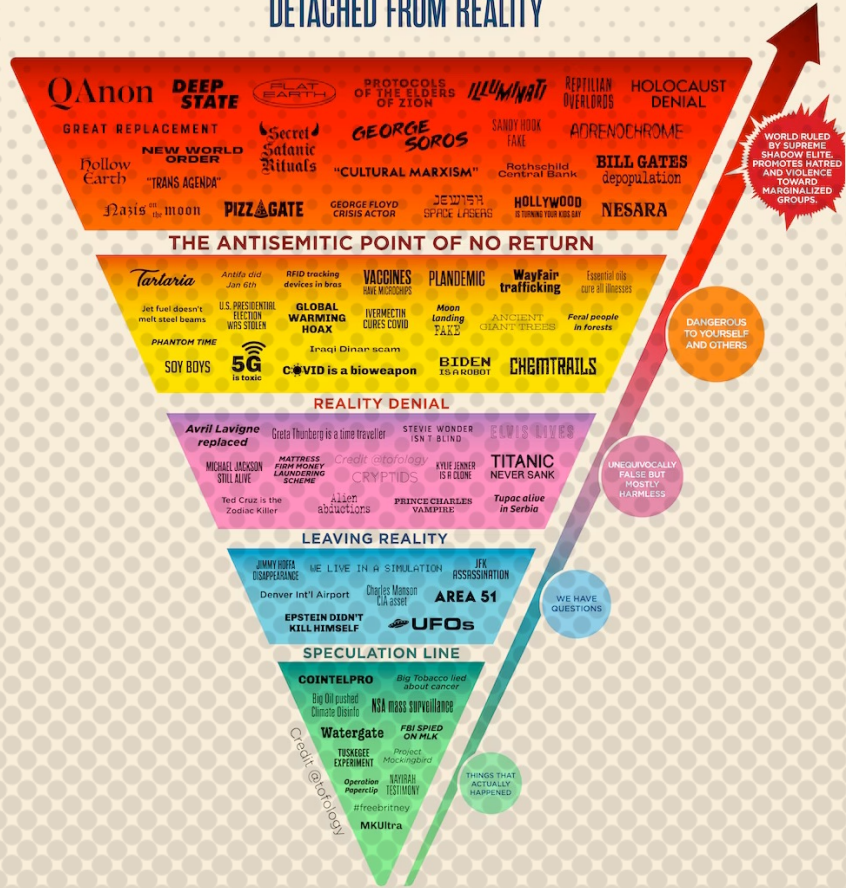
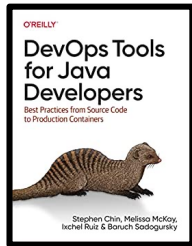


CHART BY ABBIE RICHARDS

GROUNDING IN REALITY

BARUCH SADOGURSKY - @JBARUCH

- × Developer Productivity Advocate
- × Gradle Inc
- × Development → DevOps → #DPE



EMOTIONALLY EXPRESSIVE



Israel
Russia
France

Spain

Italy

U.S.

Brazil

India
Mexico

Saudi Arabia

Philippines

CONFRONTATIONAL

Netherlands
Germany

Denmark

AVOIDS CONFRONTATION

U.K.

Sweden

Korea

Japan

EMOTIONALLY UNEXPRESSIVE

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**

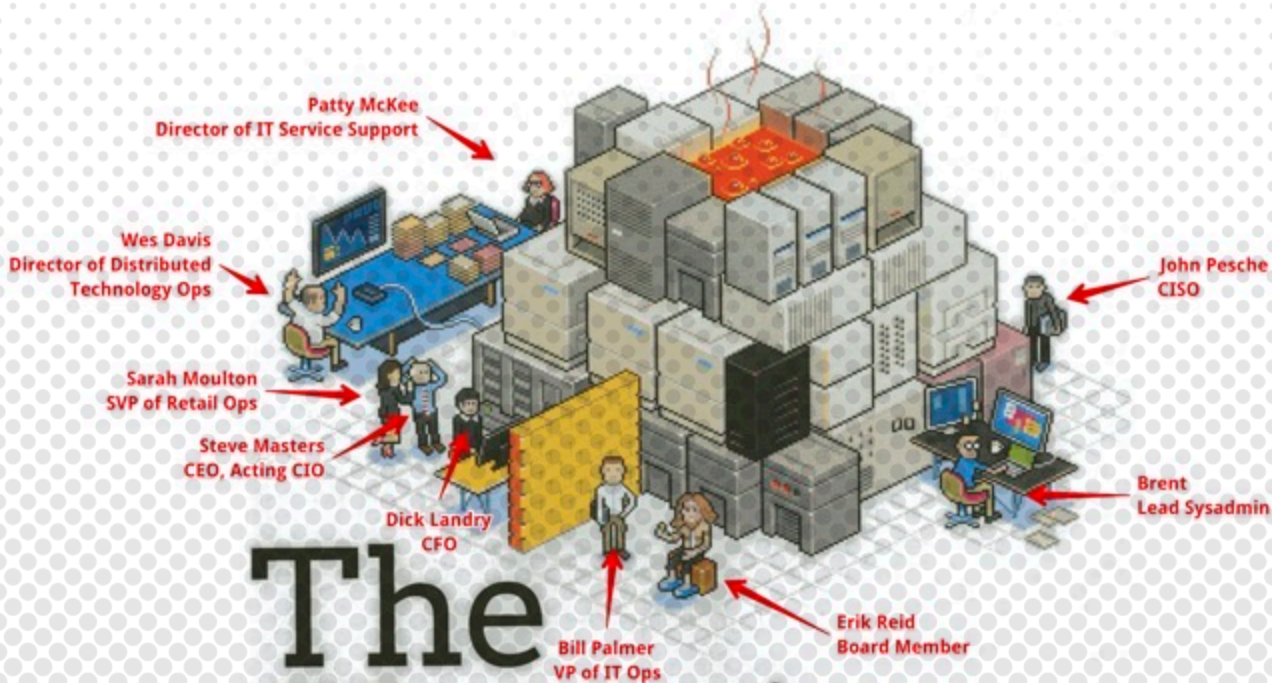
Jan 2007 - Oct 2010 · 3 yrs 10 mos

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, Evolgen, 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!***



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.



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 Tools: **Gits**, Chef, Maven, **#DPE** Jenkins, Puppet, Docker etc.

System Administrator Salary

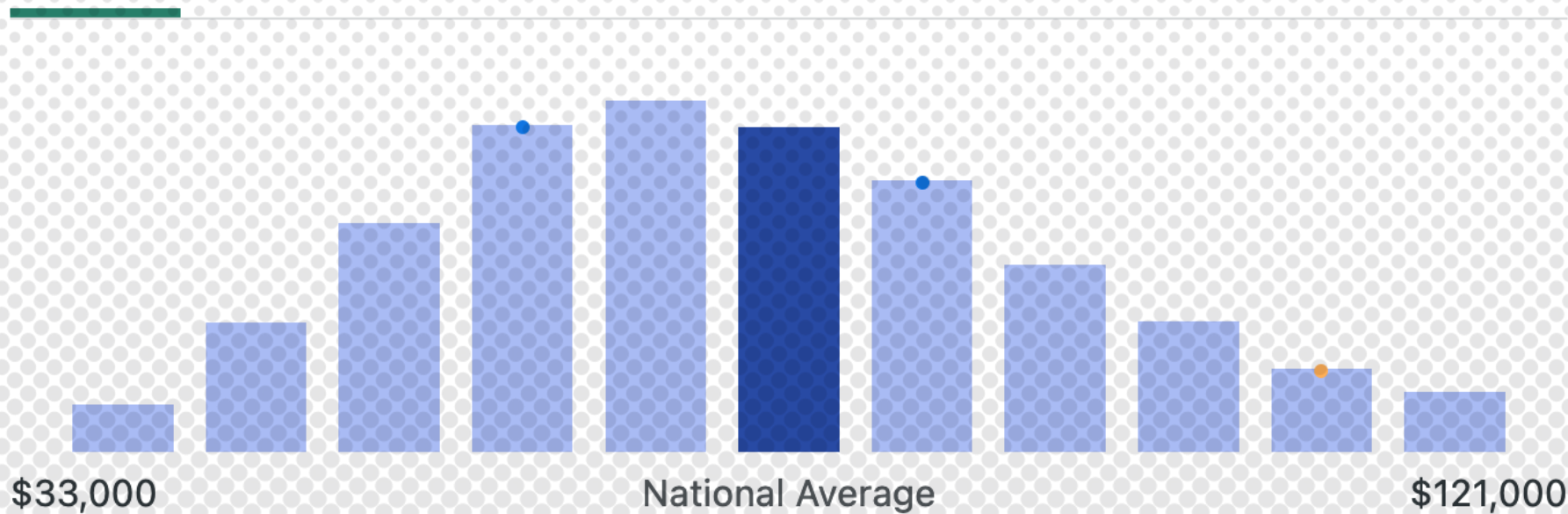
Yearly

Monthly

Weekly

Hourly

Table View



\$33,000

National Average

\$121,000

\$76,644 /year

\$37 /hour

Devops Engineer Salary

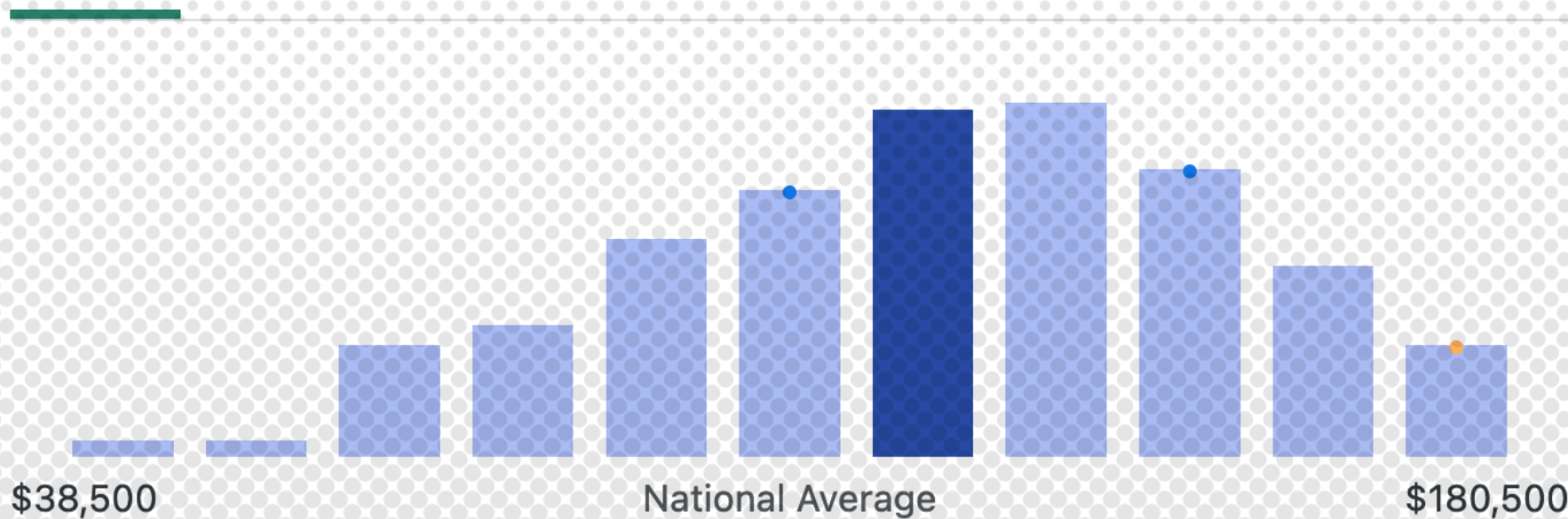
Yearly

Monthly

Weekly

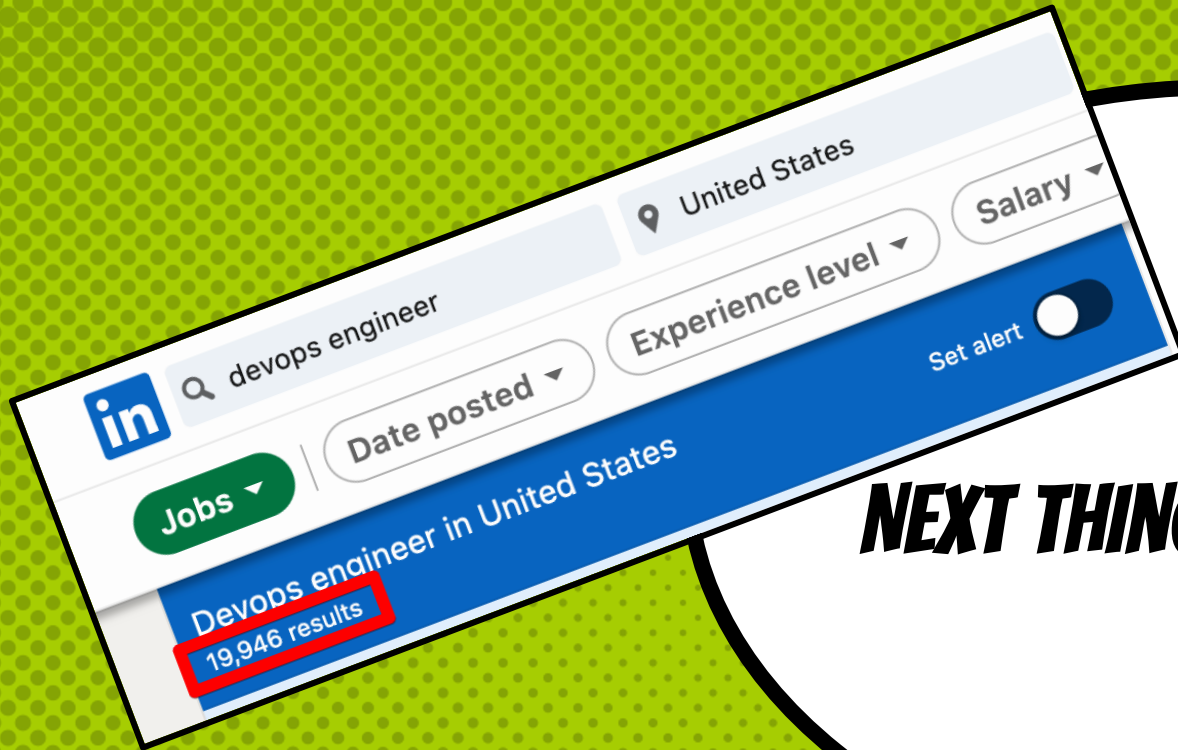
Hourly

Table View



\$127,036 /year

\$61 /hour



NEXT THING YOU KNOW...



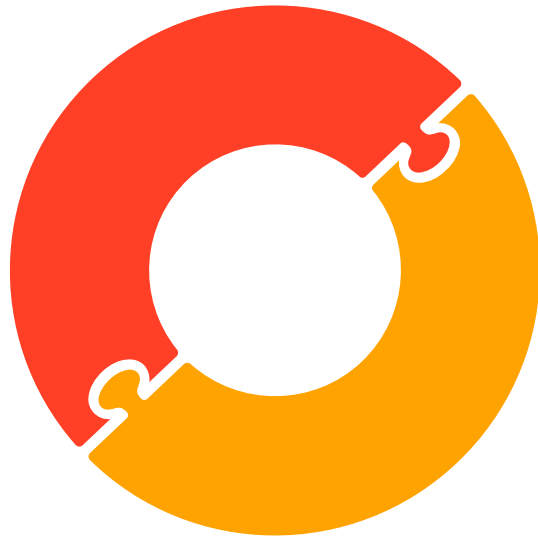
AND THIS:

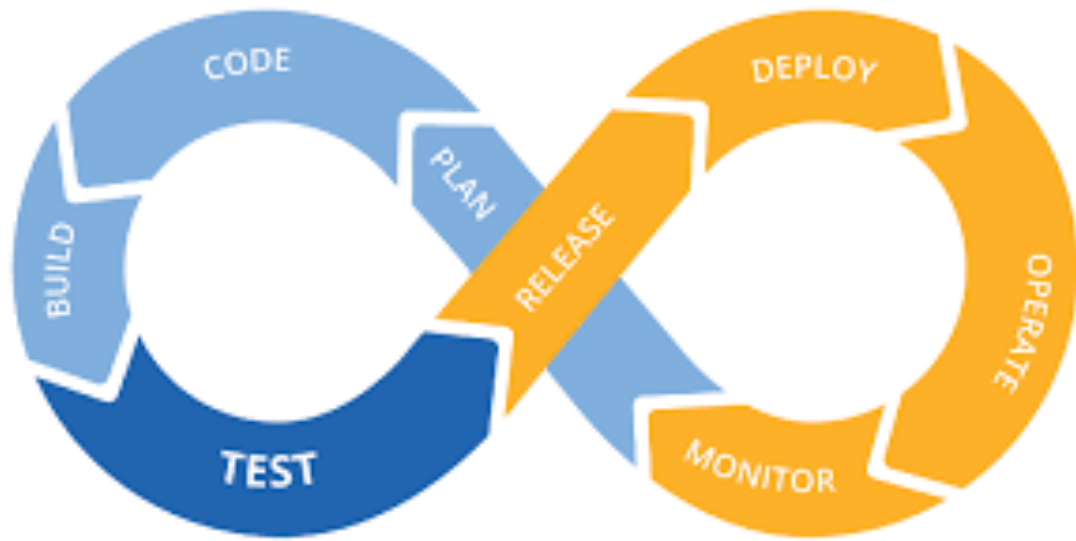
RAGE!

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



CAUSE AND EFFECT?







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#DPE

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AGILE!



2022 ACCELERATE

State of DevOps Report



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

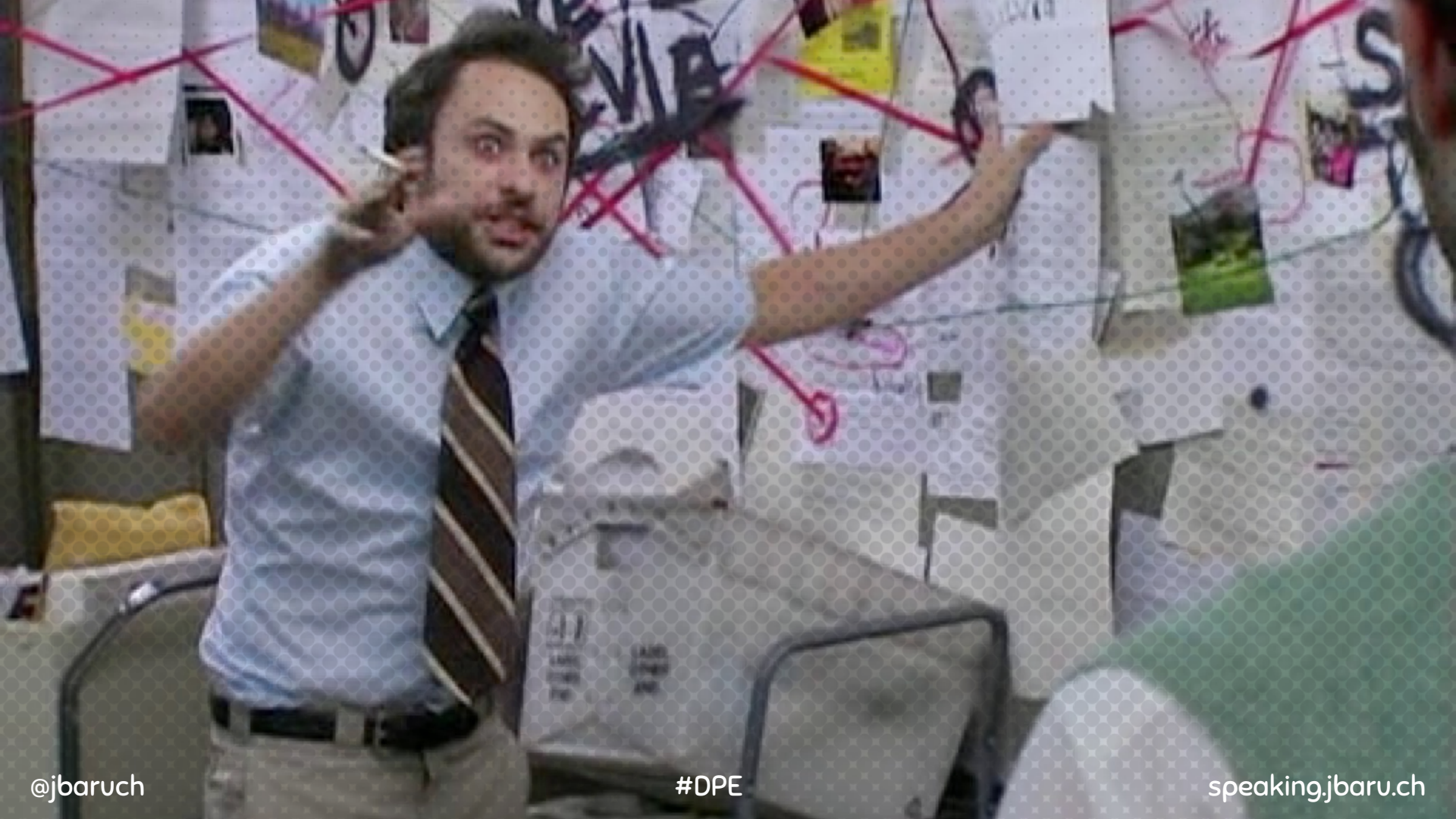
Planned Work	Business projects or new features
Internal Projects	Server migrations, software updates and so on
Changes	Driven by feedback on completed work
Unplanned Work	Support escalations and emergency outages

***SO
FASCINATING...***



TYPES OF WORK ACCORDING TO DEVELOPERS

New Features	Writing code
Refactoring	Writing code
Bug Fixes	Writing code



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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 right to be indispensable.



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SOFTWARE CRAFT-PERSON DEFINITION OF DONE

- × We got what they want
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- × 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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Start banking online now
Get a User ID

GO



IT'S MORE THAN FREE.

Get the Details

Returning Users: Log On

User ID:

Password:

Remember my User ID

[Forgot User ID/Password?](#)

Log On



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

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

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

DETAILS



Tell me about...

- 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

Start banking online now
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- How you can protect yourself

Personal Banking

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

Personal Lending

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

Business

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

Insurance & Investing

- Insurance
- Investing
- Retirement Planning

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

DETAILS

GET MORE
CASH BACK.

Click to
LEARN MORE.

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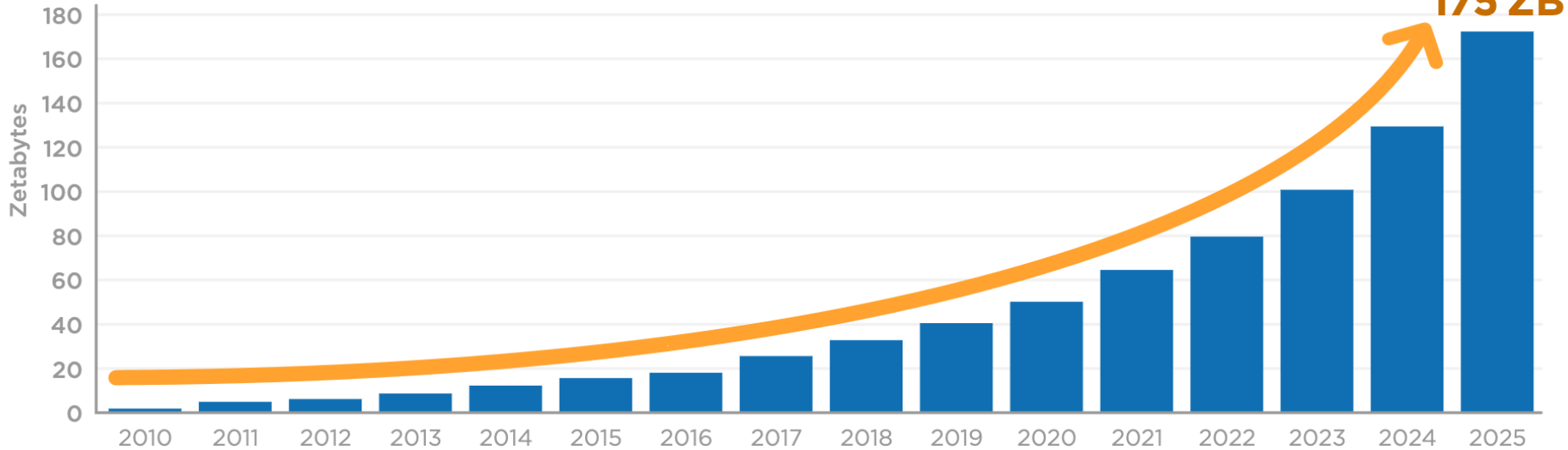
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12 HOURS MAINTENANCE FOR WEBSITE UPDATE TO ENSURE QUALITY

CODE QUALITY IS NOT ENOUGH

Annual Size of the Global Datasphere



Source: Data Age 2025, sponsored by Seagate with data from IDC Global DataSphere, Nov 2018



STAGING SERVER

JOLLY WHERE THE TIMES
WHEN WE COULD TEST EVERYTHING
BEFORE DEPLOYING TO PRODUCTION

1985 - 2015

WHAT DO WE DO?!





PRODUCTION STEAMS ITS WAY TO THE DEVELOPERS!



WELCOME TO ON-CALL!

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- × 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



***"DEVOPS ENGINEER"
IS NOT A THING***



COLLABORATION ENGINEER



***WHAT YOU SEE WHEN
YOU HEAR THE TERM
"DEVOPS TEAM"***



**WHAT I SEE WHEN
I HEAR THE TERM
"DEVOPS TEAM"**

THE TRUTH WILL SURFACE

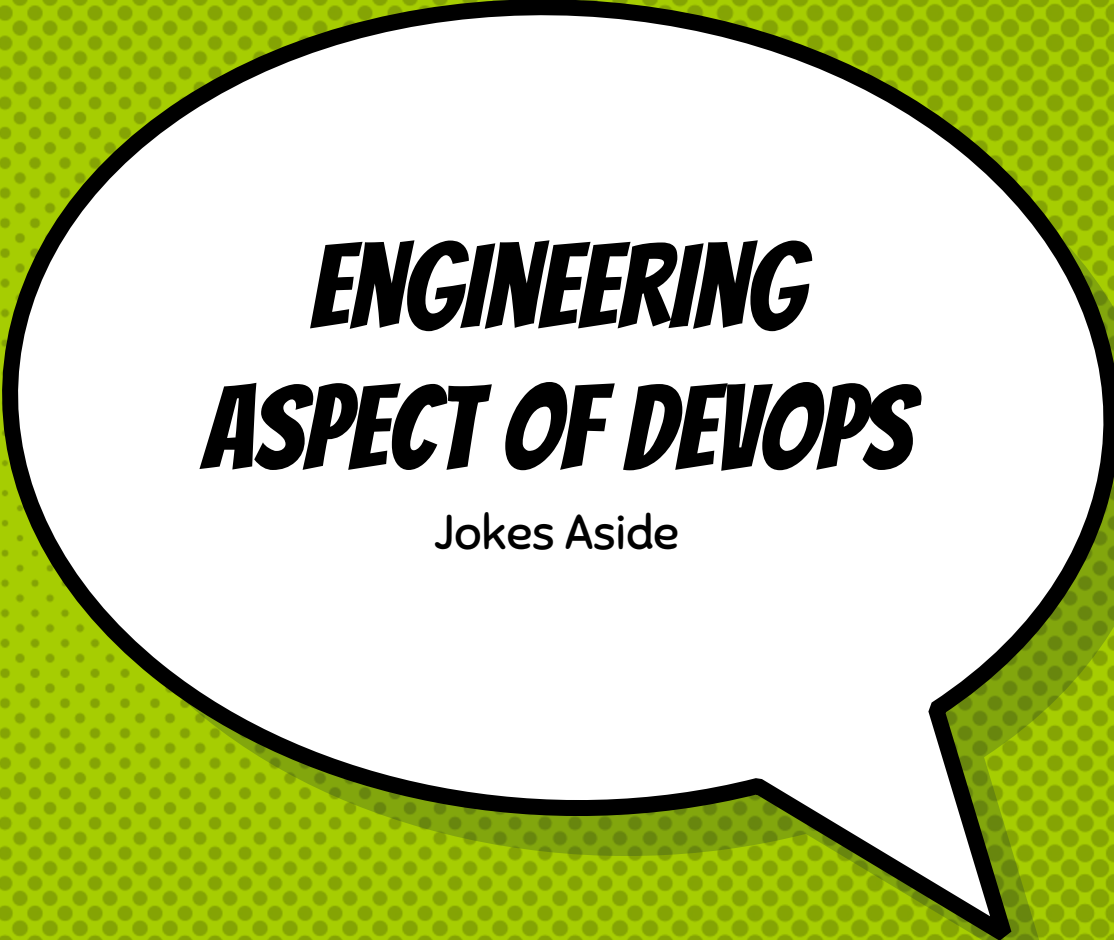
S I L O

LET'S

BREAK DOWN THIS SILO!

THE RISE OF THE DEVDEVOPS!





***ENGINEERING
ASPECT OF DEVOPS***

Jokes Aside



Class SRE implements DevOps.



***NO ONE WANTS TO BE A "SITE
RELIABILITY ENGINEER"***



***WELCOME TO OUR NEW LORD
AND SAVIOR:
"PLATFORM ENGINEERING"!***



**EVERYBODY WANTS TO BE A
"PLATFORM ENGINEER"**



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

@jbaruch

Is platform engineer same as DevOps? #DPE



speaking.jbaru.ch

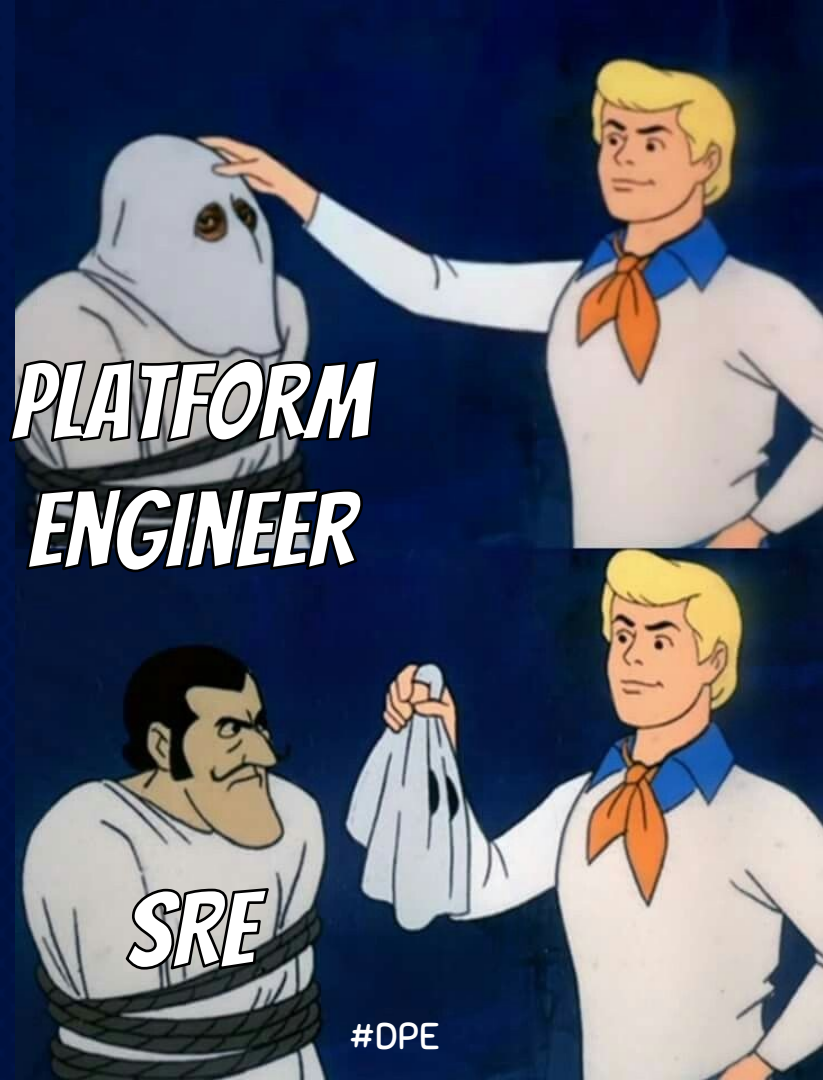


what is platform engineering in one sentence



Platform engineering is the process of designing, building, and maintaining the underlying infrastructure, including software platforms, systems, and services, that software developers use to create and deploy applications more efficiently.





**PLATFORM
ENGINEER**

SRE

#DPE

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- × 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/management tasks as one-off processes



WELCOME TO DEVOPS!



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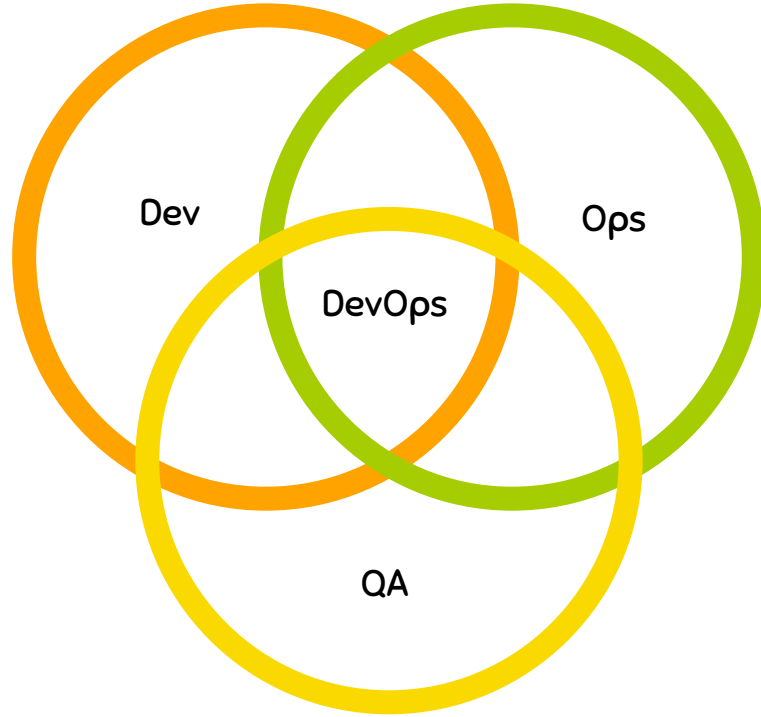
speaking.jbaru.ch

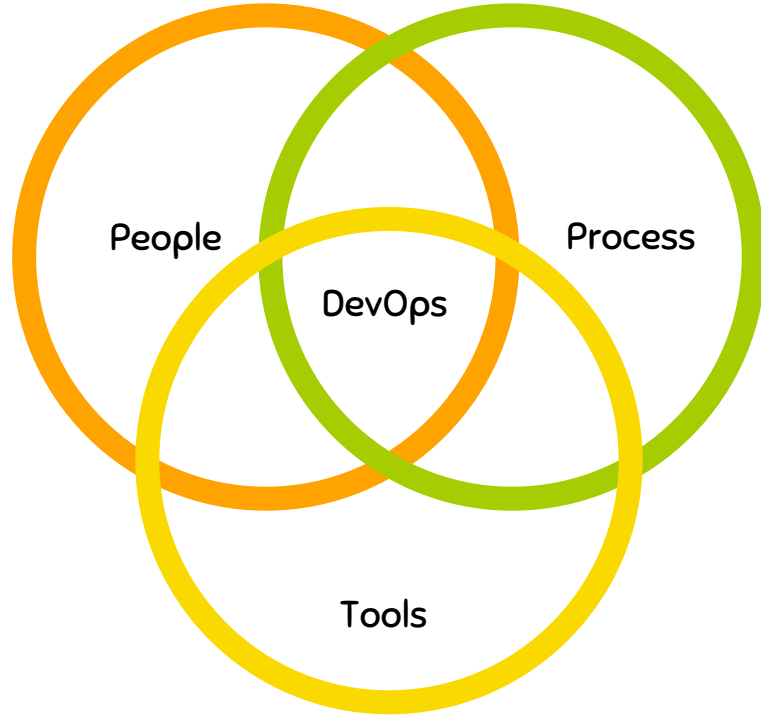
***10 YEARS OF TRYING...
AND DEVELOPERS STILL
AREN'T EXCITED ABOUT
DEVOPS***

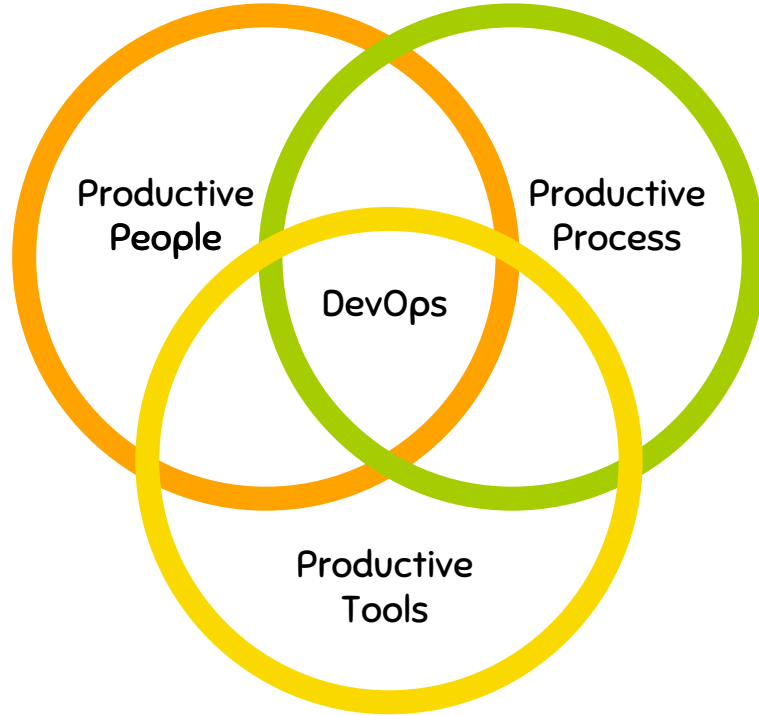


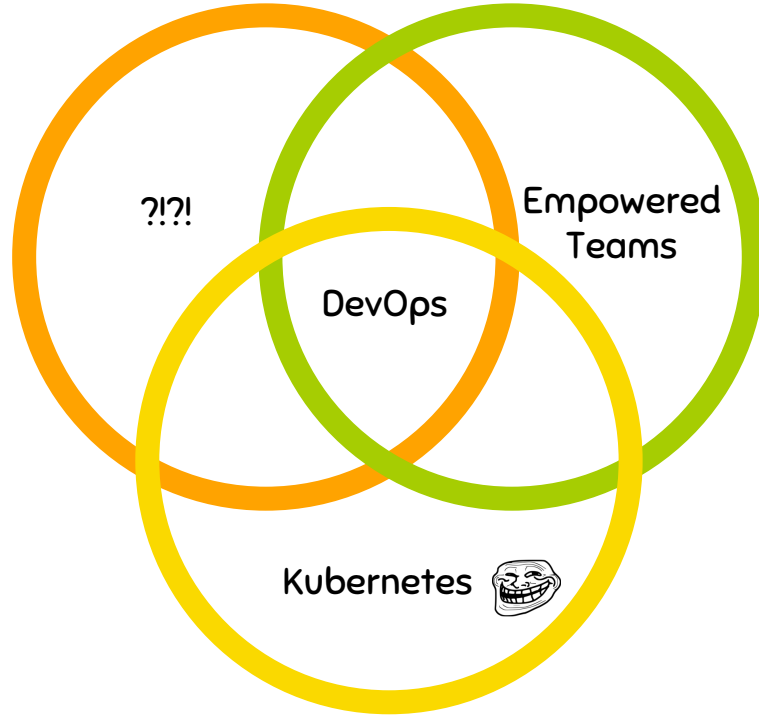
**HOW DO WE GO
FROM 😞 TO 😄 ?!**











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.



Source: TechValidate survey of 40 users of Gradle Enterprise



TechValidate
by SurveyMonkey

✓ Validated

Published: May. 30, 2023 TVID: AE3-632-6FE

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Development Pains are Widespread

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

Too much time spent waiting on build and test feedback either locally or during CI

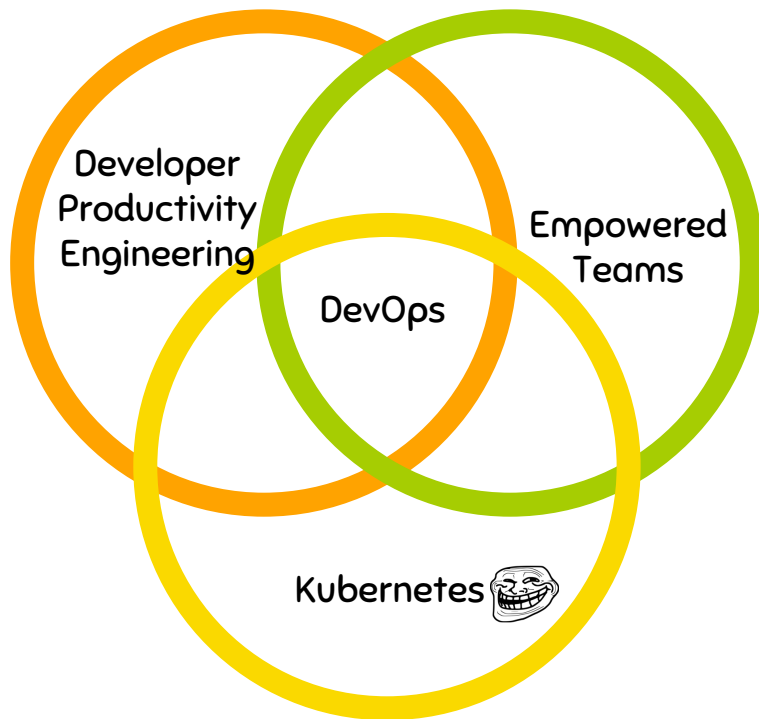


Inability to easily troubleshoot and determine the root cause of build, test and CI failures including flaky tests



Insufficient observability of analytics on build and test performance and regressions, failure trends, and productivity bottlenecks





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.”



GRADLE ENTERPRISE CUSTOMER STATISTIC

DPE Fosters Developer Joy

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



Source: TechValidate survey of 51 users of Gradle Enterprise

✓ Validated

Published: Jul. 2, 2023 TVID: 930-05A-A5F

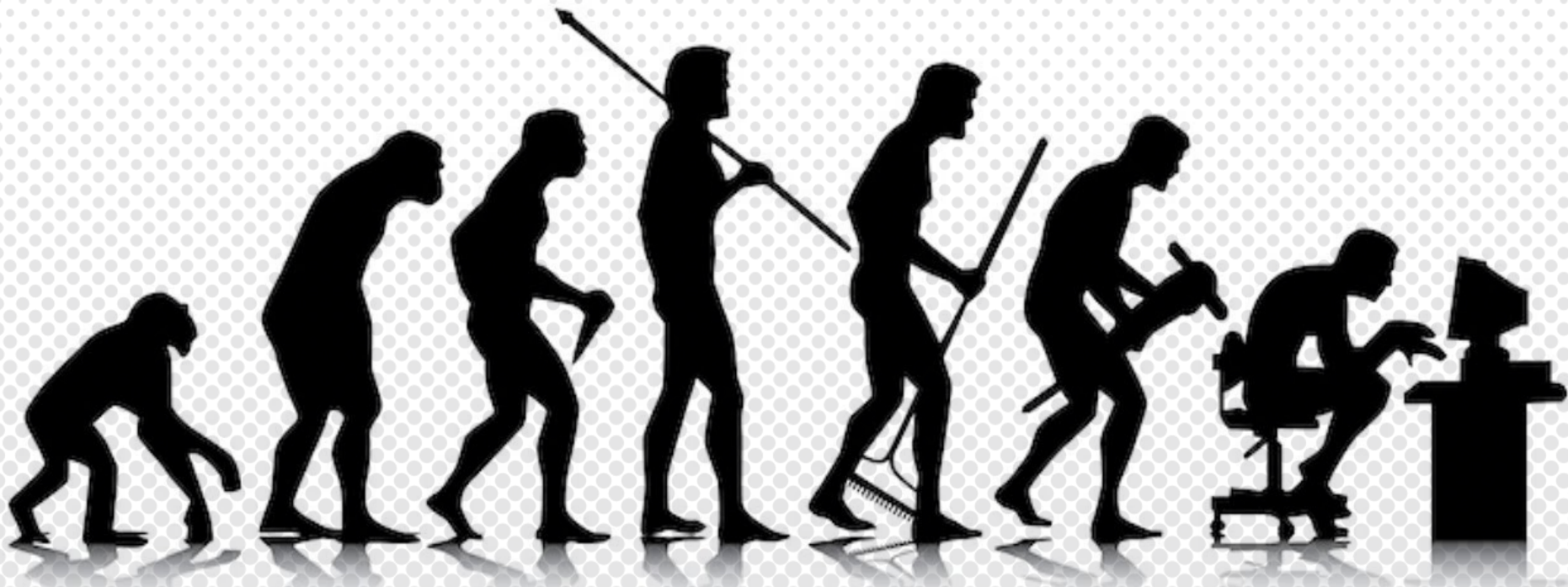


TechValidate
by SurveyMonkey

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#DPE

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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

THANKS!



Q&A and Twitter (or whatever this week) ads:

x @jbaruch

x speaking.jbaru.ch