DEVOPS FOR DEVELOPERS... OR MAYBE AGAINST THEM?

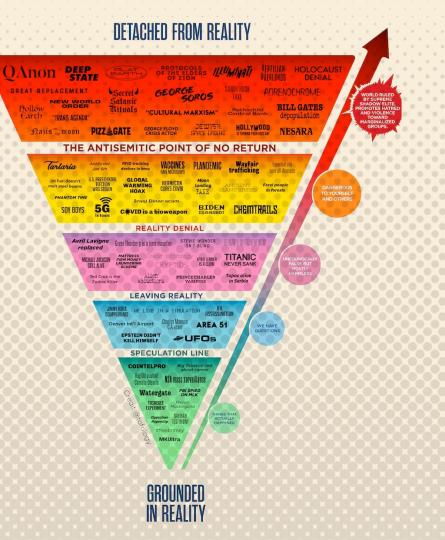






CONSPIRACI THEORY?!





DELIOPS IS A CONSPIRACY BY OPS PEOPLE TO MAKE US, THE DEVELOPERS, DO THEIR JOB



BARUCH SADOGURSKY - @JBARUCH

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





SHOWNOTES

× speaking.jbaru.cl

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- × Slides
- × Video

رقبي

× All the links!







Baruch Sadogursky Developer Relations and DPE Advocacy



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.

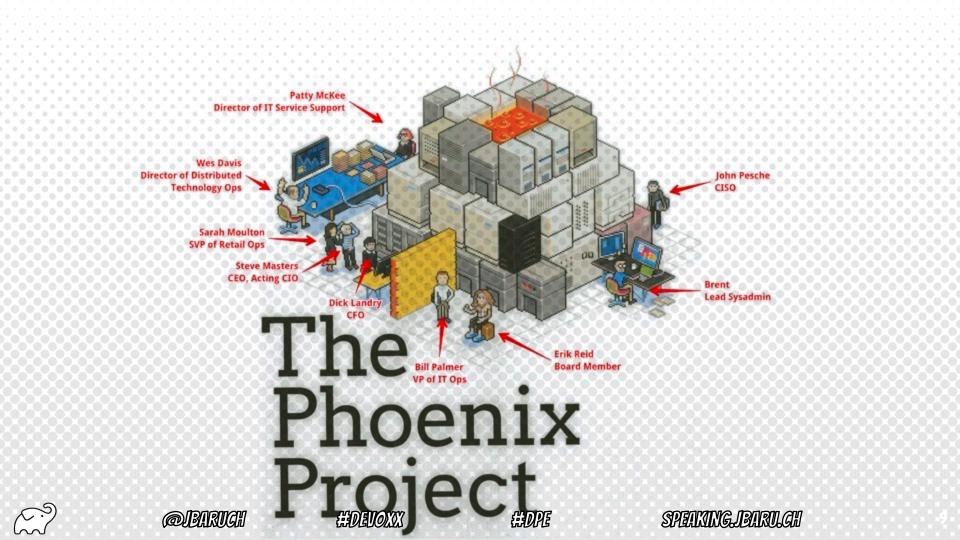
Senior Developer

Oct 2004 - Jan 2007 · 2 yrs 4 mos

Working on various projects in BMC Software Israel

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NOT A SINGLE DEVELOPER!











× 🔅 🤇



About 350,000,000 results (0.40 seconds)

Amazon.com aws

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 \cdot 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.



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?

 ${\sf Jan\ 25,\ 2023-DevOps\ enables\ coordination\ and\ collaboration\ between\ formerly\ siloed}$

roles like development, IT operations, quality engineering, and security.









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Try Quora+



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



Quora

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.

@BARNAH DevOps Tools DEVOX f, Maven, Jenkin DAB Det, Docker etc. SPENNING BARNAH

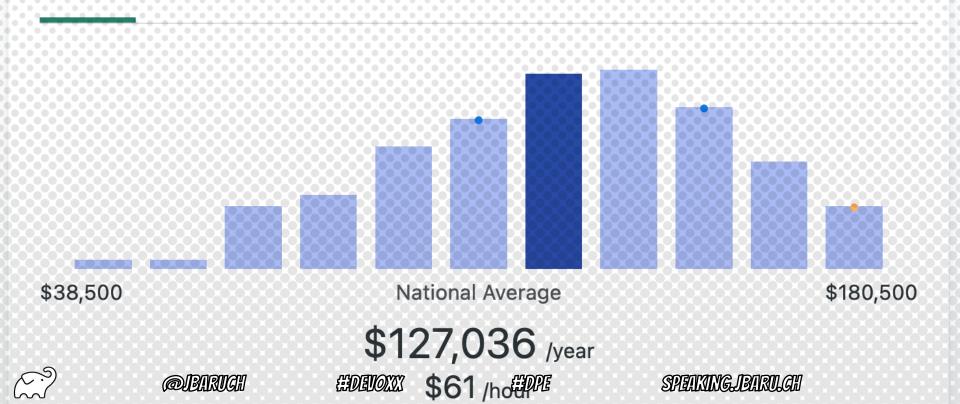
System Administrator Salary

Yearly Monthly Weekly Hourly Table View

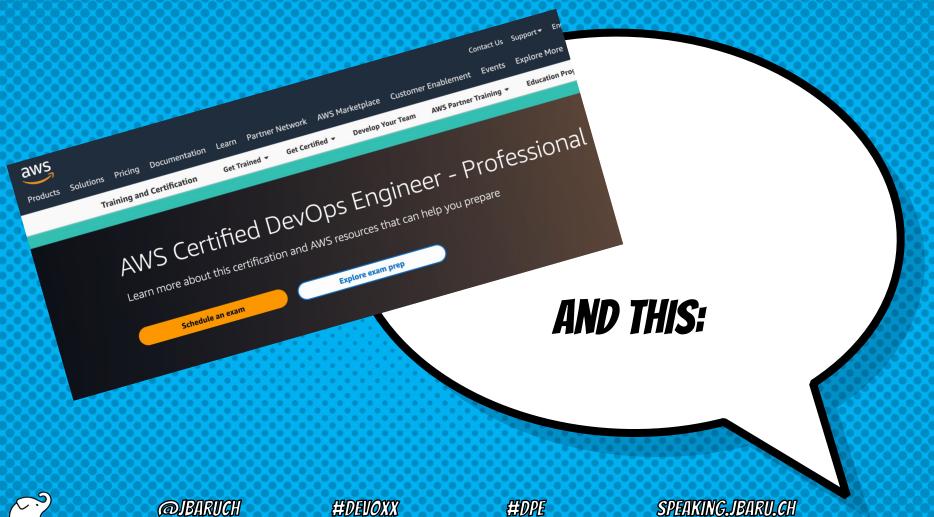


Devops Engineer Salary

Yearly Monthly Weekly Hourly Table View





















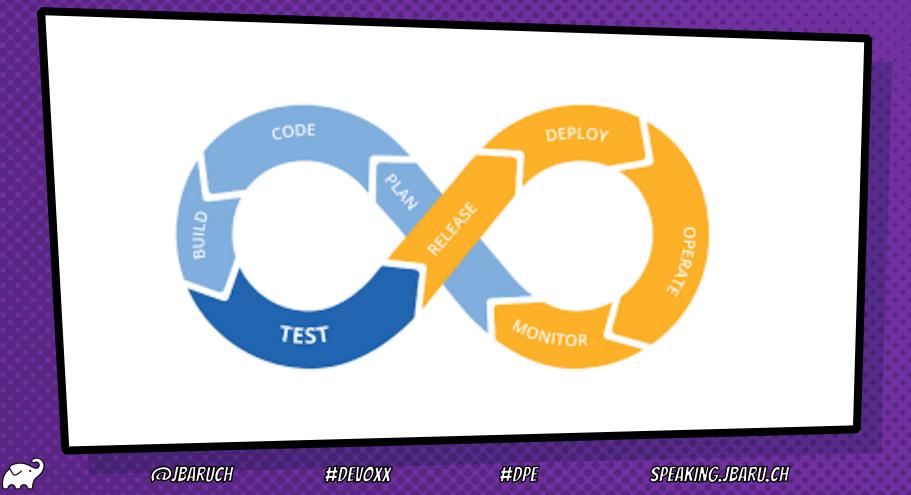




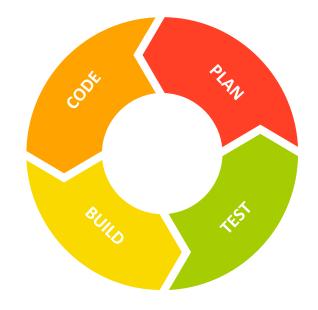


Parrot learns how to ask "Why?" repeatedly and is promoted to Engineering Manager #DEVOXX SPEAKING.JBARU.CH

#DPE









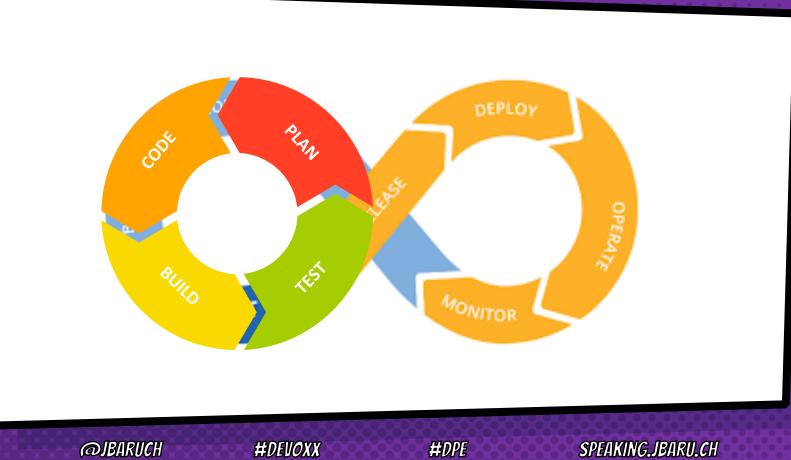


















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Elite

EMPE

High



Unplanned work and rework

19.5%

5%

10%

20%^a

5%^b

10%^c

10%

Remediating security issues

Working on defects identified by end users





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



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FASCINATING....











TYPES OF WORK ACCORDING TO DEVELOPERS

New Features	Writing code
Refactoring	Writing code
Bug Fixes	Writing code













Raising the bar.

Manifesto for Software Graftsmanship

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**



SOFTWARE CRAFT-PERSON DEFINITION OF DONE

- We got what they want
- × Clear code
- × Easy to deploy
- × Non-func reqs ✓
- × No new tech dept

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× Tests – 🗸

HDPE

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

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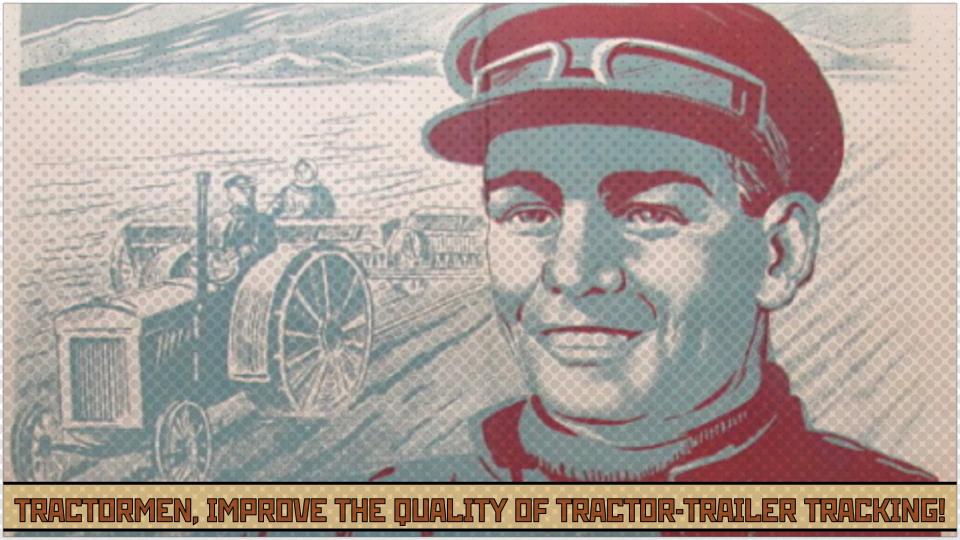


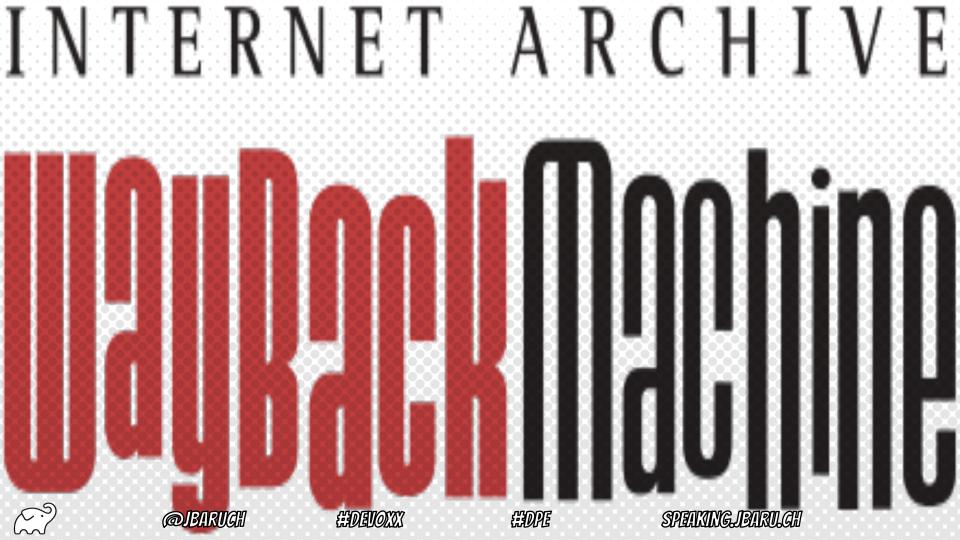


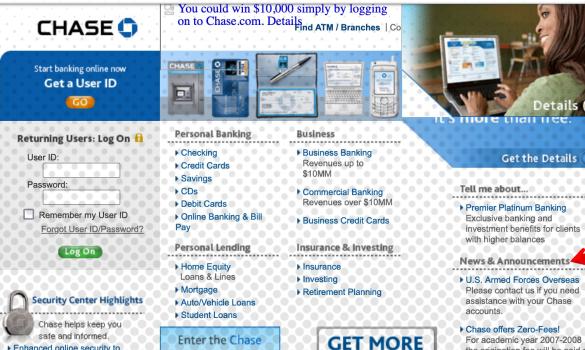












Enhanced online security to prevent fraud.

Scams involving advance fees and cashier's check.

Online fraud and e-mail scams Ways we protect you How you can protect yourself

JPMorgan | JPMorganChase | En Español

About Us | Accessibility | Careers | Privacy Policy | Security | Terms of Use | Legal Agreements

EQUAL HOUSING LENDER Member FDIC

12 HOURS MAINTENAN FOR WEBSITE UPDATE **TO ENSURE QUALITY**

.............

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

© 2007 JPMorgan Cha EDE

CASH BACK.

Click to LEARN MORE.





@BIRIG!

help



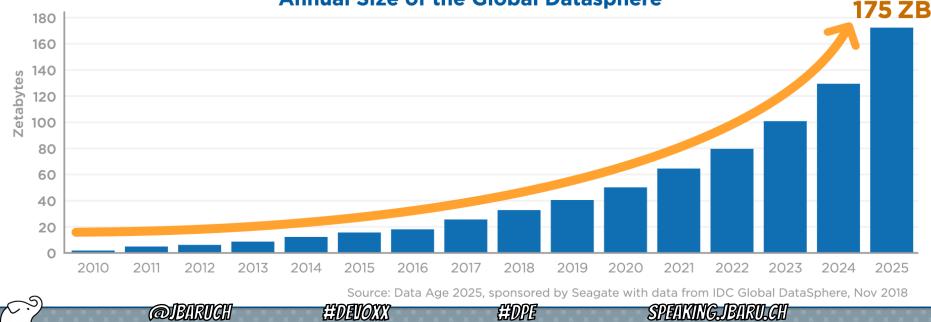
"Log On to Cash In"

Sweepstakes.

DETAILS

CODE QUALITY IS NOT ENOUGH

Annual Size of the Global Datasphere



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!



SOFTWARE CRAFT-PERSON DEFINITION OF DONE

- We got what they want
- × Clear code
- × Easy to deploy
- × Non-func reqs ✓
- × No new tech dept

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× Tests – 🗸

HDDE

- × QA are happy
- × Team lead is happy
- Product owner is happy – (i.e. customer is happy)
- × It's DevOps ready

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DEVOPS-READY SOFTWARE (A.K.A. CLOUD-NATIVE)

- Clear deploymentplan
- × Stable and fast build
- × Stateless code
- Fast startup and stop

- × Observability
- × Feature flags
- Backwards and forward-compatible
- × Event streaming







WELCOME TO DEUOPS!

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















HOW DO WE GO FROM CO TO CO ?!

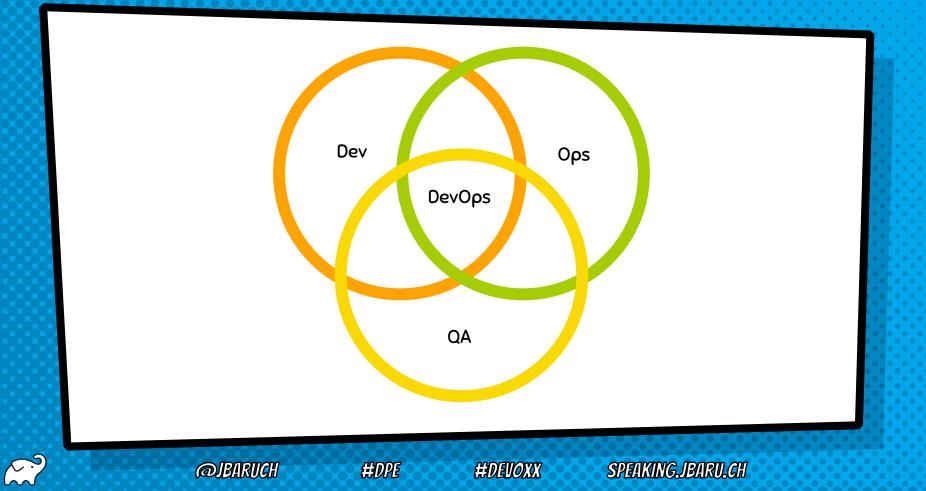


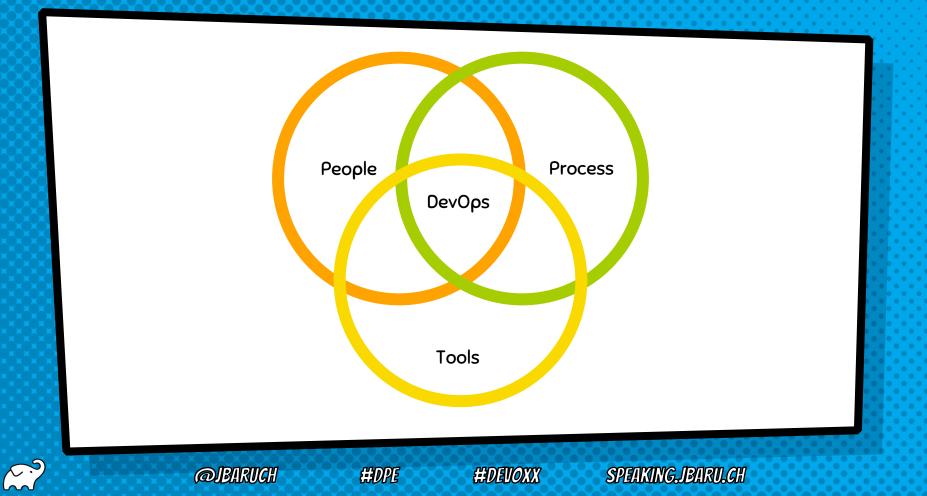


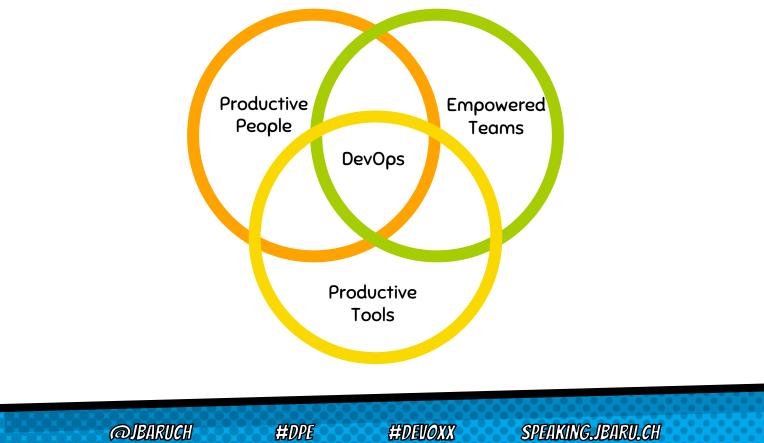








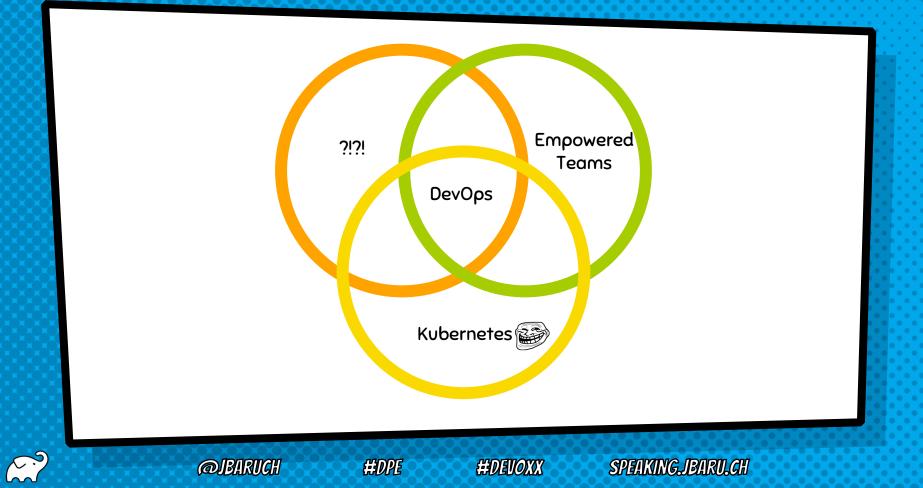




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THE PAIN IS REAL

Builds and Tests are Slow!

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



TechValidate



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

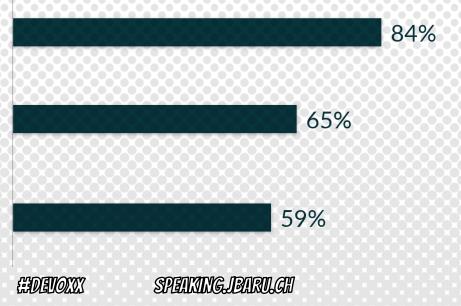




Development Pains are Widespread

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

ENDRE



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

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



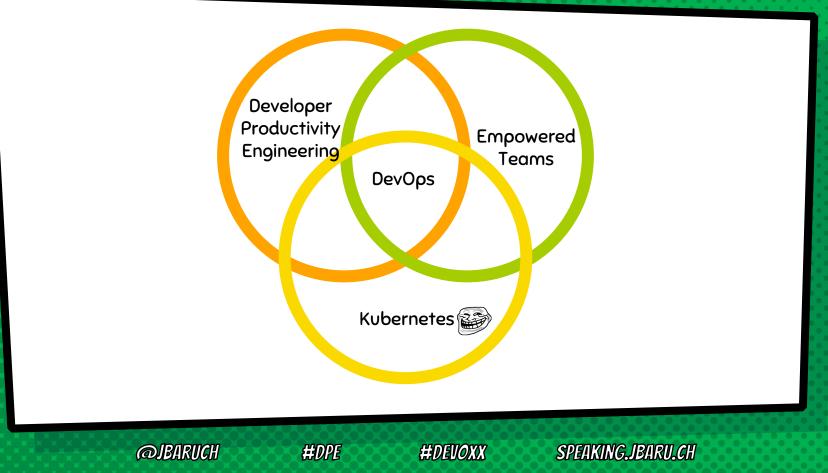
THE NEXT FRONTIER: **PRODUCTION SYSTEM OF YOUR PRODUCTION SYSTEMS**



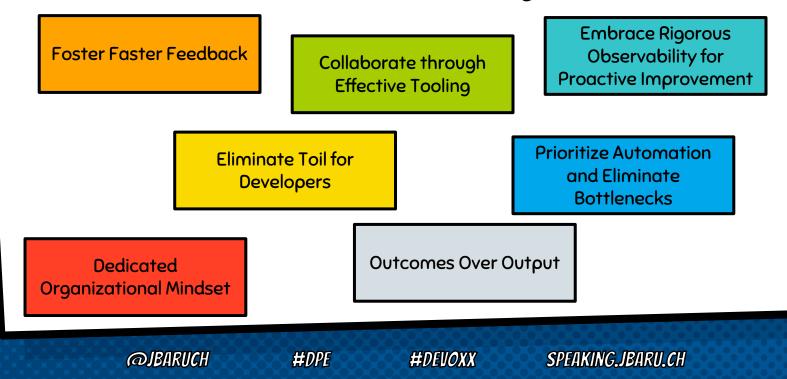
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DEVELOPER PRODUCTIVITY ENGINEERING



DEVOPS AGAINST DEVELOPERS?

 DevOps mainly solves Ops' concerns by making processes and ops tools more productive

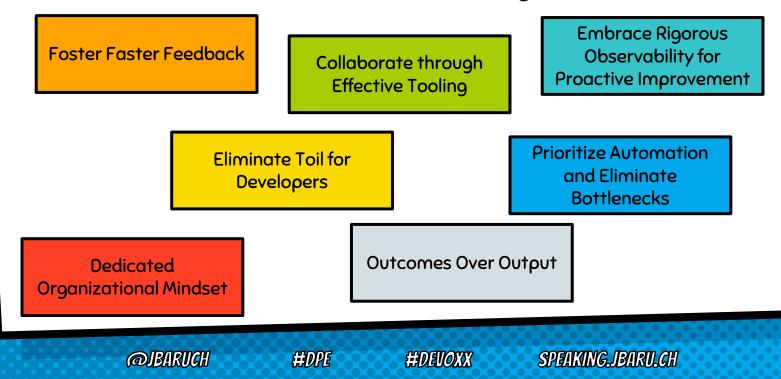
EEDPE

- Developer Productivity Engineering makes devs more productive
- × This is how we bring developers into the fold of DevOps

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DEVELOPER PRODUCTIVITY ENGINEERING



FEEDBACK EFFICIENCY

× IDE: Sub-seconds (I type, it marks it red)

#DPE

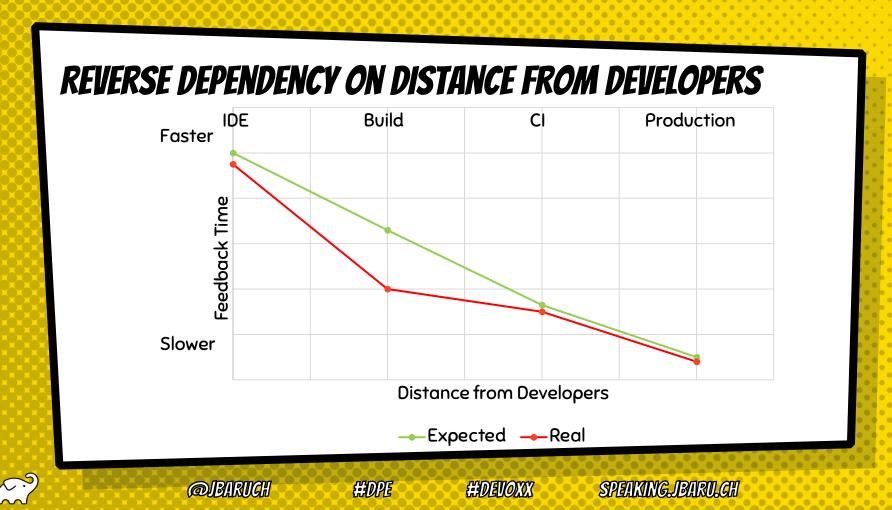
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× Build: Seconds

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- × CI: Minutes
- × Production: Hours/Days



TWO TYPES OF FEEDBACK

ASYNGHRONOUS	 x e.g., CI/CD x we never wait for it x results are distracting
SYNGHRONOUS	 x e.g., build x we'll wait for it in the flow x we'll be pissed off when it's slow

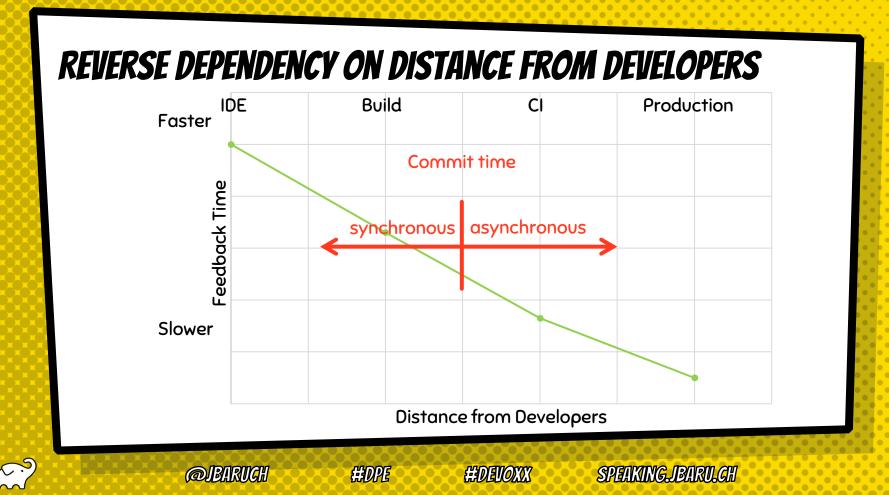


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HOW CAN WE ENGINEER LESS CONTEXT SWITCHES?

- × Measure local build times!
- × Avoid building and testing what didn't change
- Speed up what can't be avoided

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- × Fight evil flaky tests!
- × Watch your build like a hawk for degradations

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WHAT YOU CAN DO TODAY (FOR FREE)

- × Parallel local
- × Local caching
- × Remote caching*
- × Build Scans
- × Win Prizes (a.k.a. speed challenge)

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WHAT YOUR COMPANY SHOULD PAY FOR

- × All the books (see shownotes)
- × Top development hardware

#DPE

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Develocity (or similar)

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



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WATCH THE KEYNOTES! 2024

DPE SUMMIT

September 24-25 | The Midway | San Francisco

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