

# Evergreen DevOps

aaron aldrich (@crayzeigh)



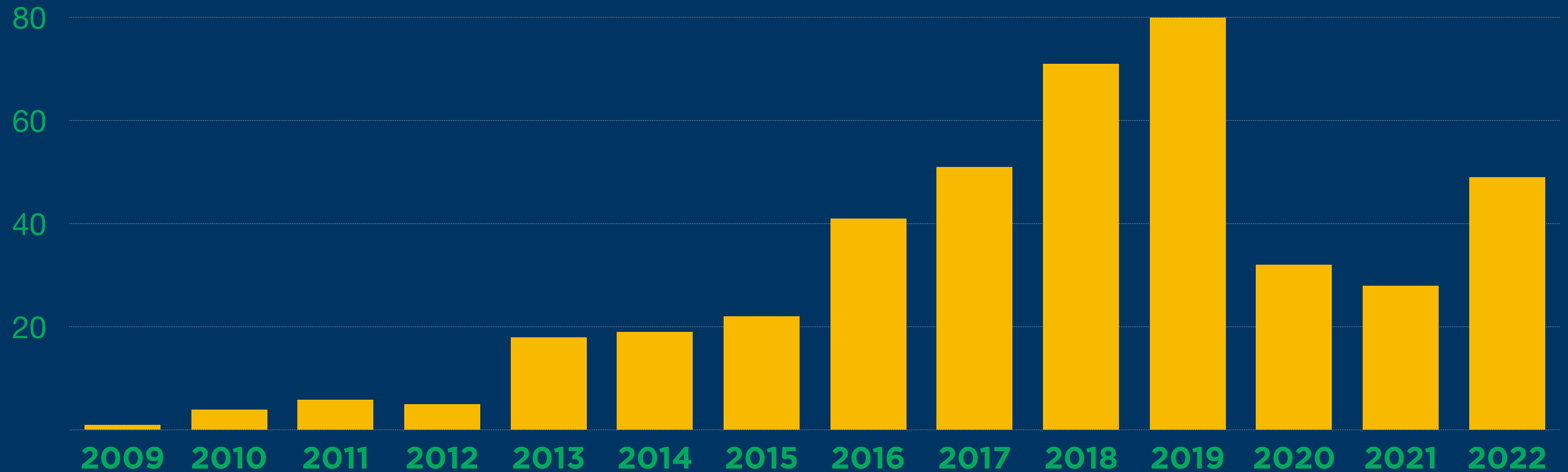
EQUINIX







# DevOpsDays Events





# 2016

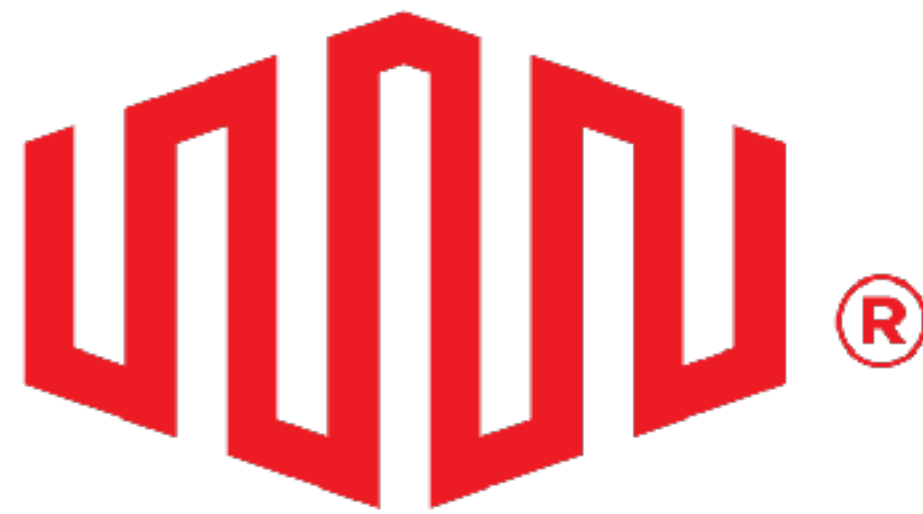
six years ago...

apparently



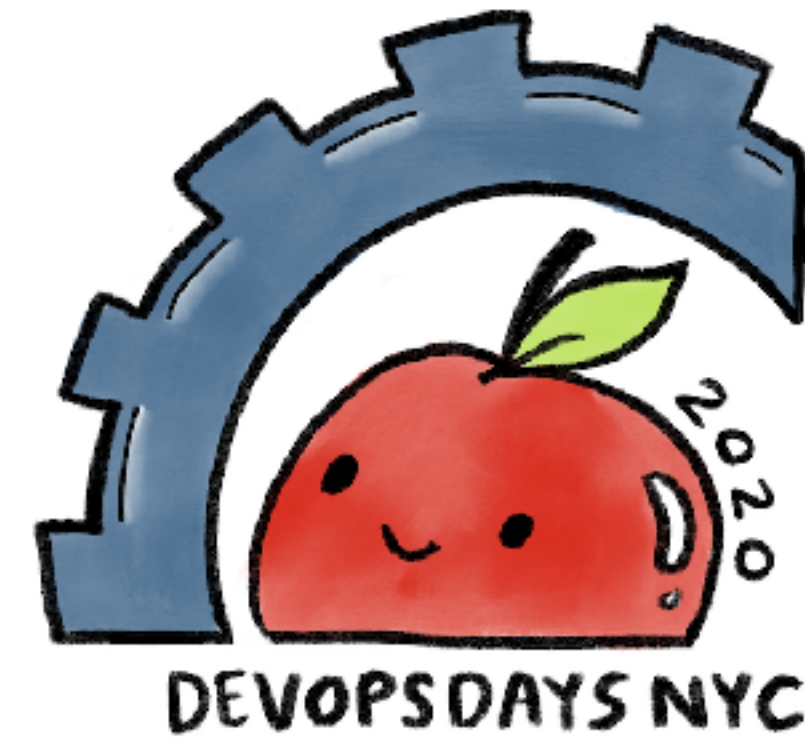
# Hi!

## I do things



# EQUINIX

[metal.equinix.com](https://metal.equinix.com)



[origins.dev/originals/traceroute](https://origins.dev/originals/traceroute)



[greaterthancode.com](https://greaterthancode.com)





**aaron aldrich**

@crayzeigh



Hey Twitter Friends, I want to grab as many of these as I can:

What are the historic DevOps tech trends? The ones you always had an open space about?

I'd say something like K8s is the current hotness, used to be "docker, docker, docker" what else?

4:13 PM · Apr 11, 2022 · TweetDeck





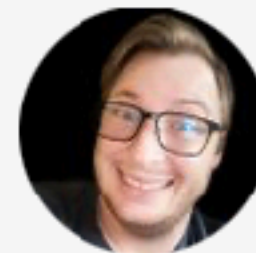
**Ben Link** @LinkBenjamin · Apr 11

Replying to @crayzeigh  
CI/CD pipeline tools?



**Tim Davis** @vtimd · Apr 11

Replying to @crayzeigh  
“Jenkins will save the world in just 99 not-so-easy steps!”



**Andy Fleener** @andyfleener · Apr 11

With infra testing it was Test Kitchen then it was InSpec. Yeah I'd say Jenkins and then it became muddy after that. I think I had more conversations about how to get rid of Jenkins than adopting it though lol. The alerting stuff was always centered around Pagerduty for me.







**Ray Myers** @lambdapocalypse · Apr 12

Replying to @crayzeigh

Config Management (Puppet/Chef/Ansible) and immutable infrastructure (e.g. golden image) were some early ones.

Build servers AKA CI servers (e.g. LintBuild, Jenkins called Hudson at the time)



**Eric Shamow** @eshamow · Apr 11

Replying to @crayzeigh

In config mgmt: Strict procedural (Ansible) vs strict declarative (Puppet), vs hybrid/pragmatic (Puppet Ruby DSL, Chef)

Git vs Mercurial for a hot minute back in the day

system

Packa  
contai



**Thiago de Faria** @thiagoavadore · Apr 12

Also the agent vs agentless, structured or not fleet management was big back in 2015/2016... puppet, chef, early ansible, salt



**Troy Howard, in Solidarity** 🇺🇦 @thoward37 · Apr 11

Replying to @crayzeigh

Chef vs Puppet vs Saltstack vs Ansible vs CFEngines vs Capistrano vs Vagrant vs Docker vs (a million other things)



7







**slight reliability engineer** @jgoldschrafe · Apr 11



Replying to @crayzeigh

"Monitor all the things!"



**Pete Cheslock** @petecheslock · Apr 11



Replying to @crayzeigh

Monitoring? Like Nagios vs. Sensu?



**slight reliability engineer** @jgoldschrafe · Apr 11



Replying to @crayzeigh

ELK stack



**Joshua Zimmerman** @TheJewberwocky · Apr 11



For testing, add in Beaker and serverspec. For alerting, a lot of it used to be sourcing alerts out of places (nagios, sensu, etc), but I also remember a tool called Flapjack being hot for a sec for routing.



**Tim Banks stands 5 feet, 8 inches** @elchefe · Apr 11



Replying to @crayzeigh

Mesos/Marathon, Prometheus, and OpenStack. I'd say VMWare, but it was never a trend, just old tech that refuses to die. Like Oracle.



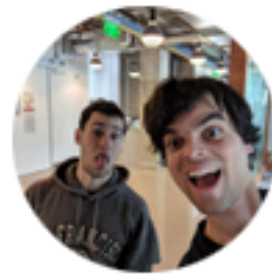
3



6







**Andrew Mason is Touching Grace** @andrew\_mason1 · Apr 11



Replying to @crayzeigh

- gitops
- chatops
- trace all the things
- infrastructure as code



1





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THE  
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OPS



# (S)RE

**The reliability is coming from inside the system...**



## The marvelous resilience of bone

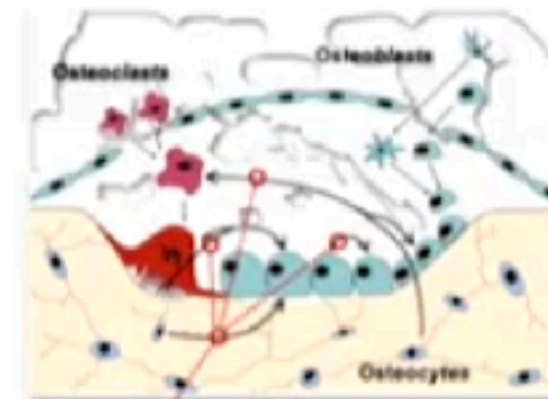
### Resilience engineering...



- ...is engineering applied to a resilient system.
- ...depends for its success the presence of resilience.
- ...requires understanding how resilience plays out.
- ...can be successful even without understanding the mechanisms of resilience.
- ...benefits from greater understanding of the sources and modulators of resilience.

~3500 yrs old

### Resilience engineering...



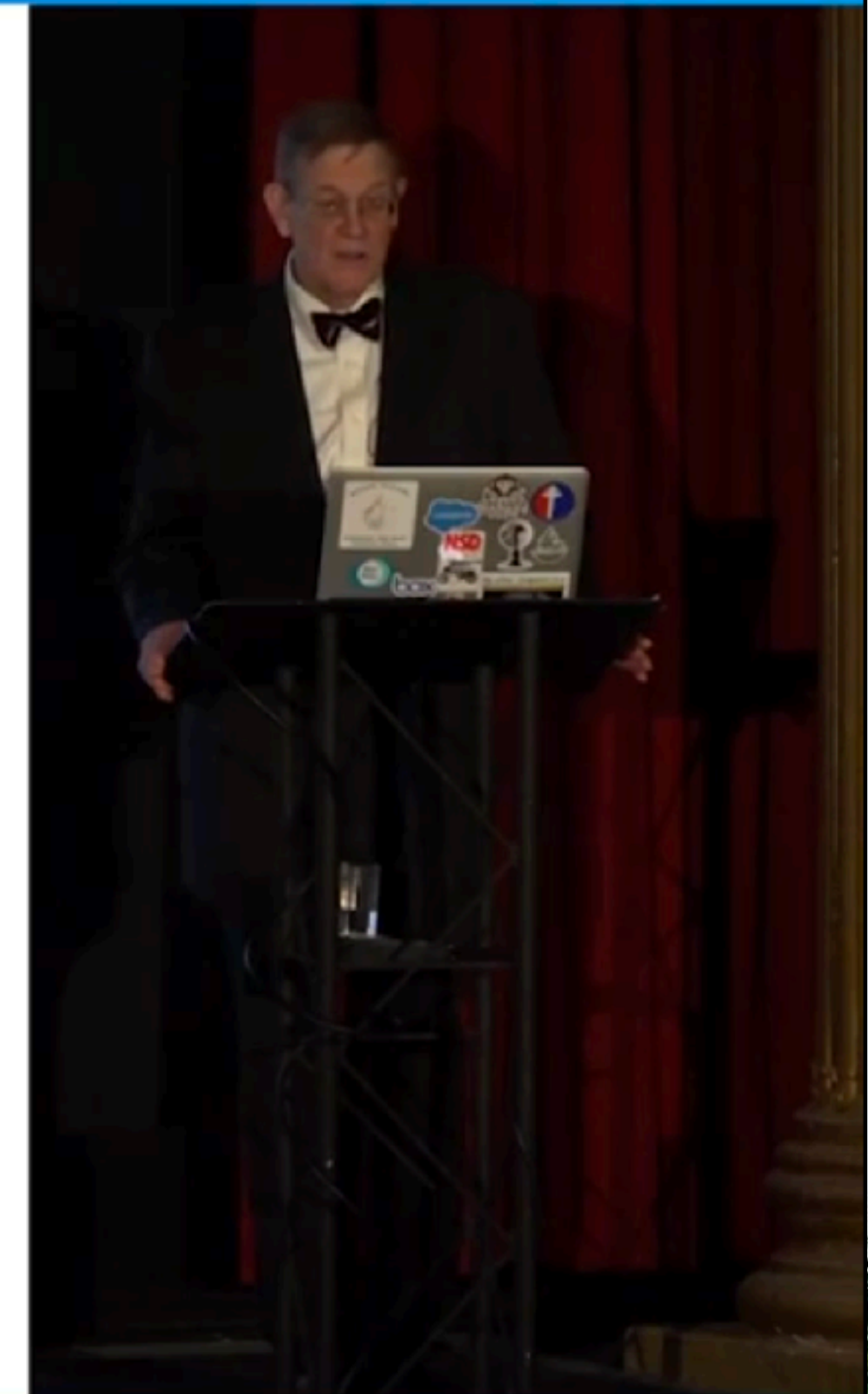
signals (partial list)

OSM	EphB4
PTHrP	Sema3a
sclerostin	OSM
TGFb	RANKL
IGF-1	Sema3B
CT-1	Wnt5a
Sema4D	OPG
S1P	OSM
ephrinB2	interleukins
	RANKL

- ...alters the resilience mechanisms of a system.
- ...depends for its success on deep understanding resilience.
- ...seeks to retard the loss of adaptive capacity.
- ...generates new types of hazard.

~5 yrs old

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# Conway's Law

**Any organization that designs a system will produce a design whose structure is a copy of the organization's communication structure**







# CONTINUOUS IMPROVEMENT

*DevOps & Mental Health*

1 — @CrayZeigh | #DevOpsDays



# BizDevSecFinOpsEtc



# Intersectional





# Code of Conduct

All attendees, speakers, sponsors and volunteers at our conference are required to agree with the following code of conduct. Organisers will enforce this code throughout the event. We expect cooperation from all participants to help ensure a safe environment for everybody.

## The Quick Version

Our conference is dedicated to providing a harassment-free conference experience for everyone, regardless of gender, gender identity and expression, age, sexual orientation, disability, physical appearance, body size, race, ethnicity, religion (or lack thereof), or technology choices. We do not tolerate harassment of conference participants in any form. Sexual language and imagery is not appropriate for any conference venue, including talks, workshops, parties, Twitter and other online media. Conference participants violating these rules may be sanctioned or expelled from the conference without a refund at the discretion of the conference organisers.



You're "just not that into politics?"

Your boss is.

Your landlord is.

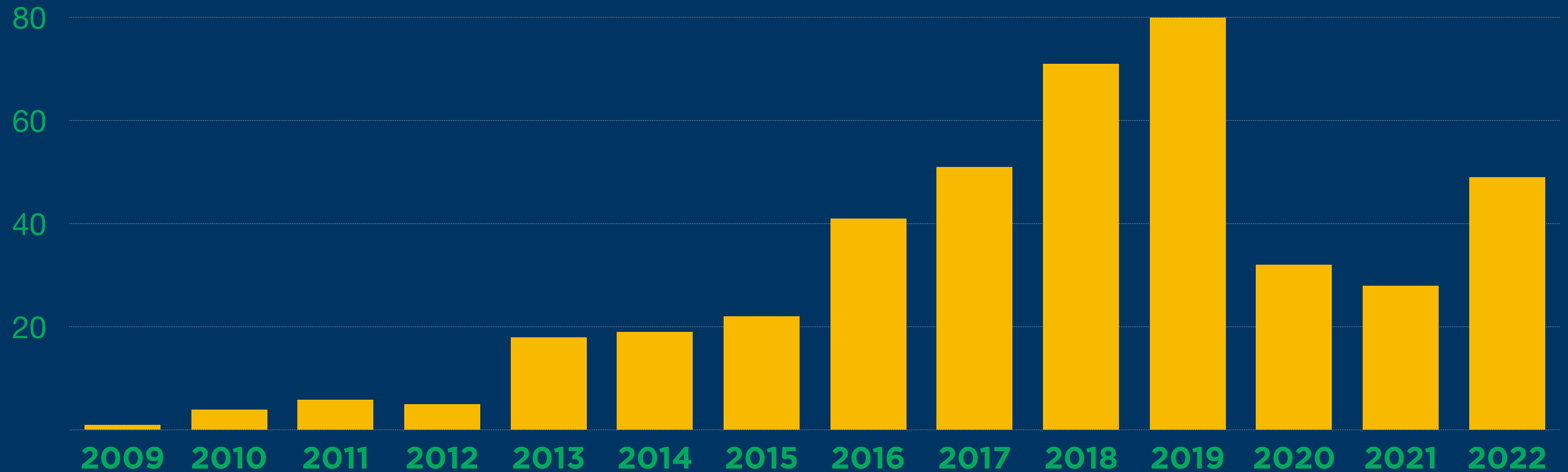
Your insurance company is.

And every day they use their political power to keep your pay low, raise your rent, and deny you coverage.

It's time to get into politics.



# DevOpsDays Events





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**aaron aldrich**

@crayzeigh



TL;DR--

This is all one movement with multiple on-ramps. If you want to build better, more resilient socio-technical systems you have to build strong and inclusive communities that leave no one out.\*

\*except nazis. Fascists are incompatible with DevOps & should be uninstalled

2:20 PM · May 3, 2022 · TweetDeck



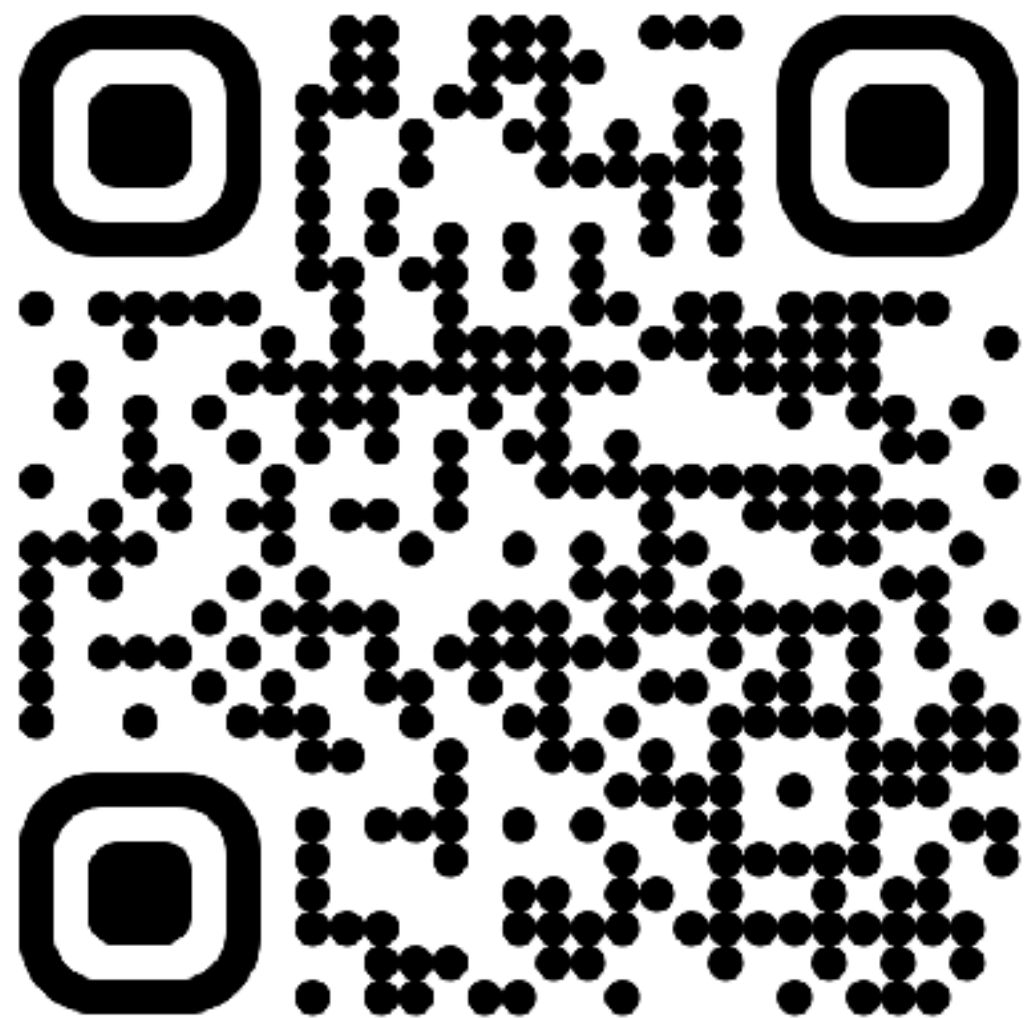
# Thanks!

find me

@crayzeigh

find slides

speaking.crayzeigh.com



# We're Hiring!



[careers.equinix.com/metal-careers-page/](https://careers.equinix.com/metal-careers-page/)



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