

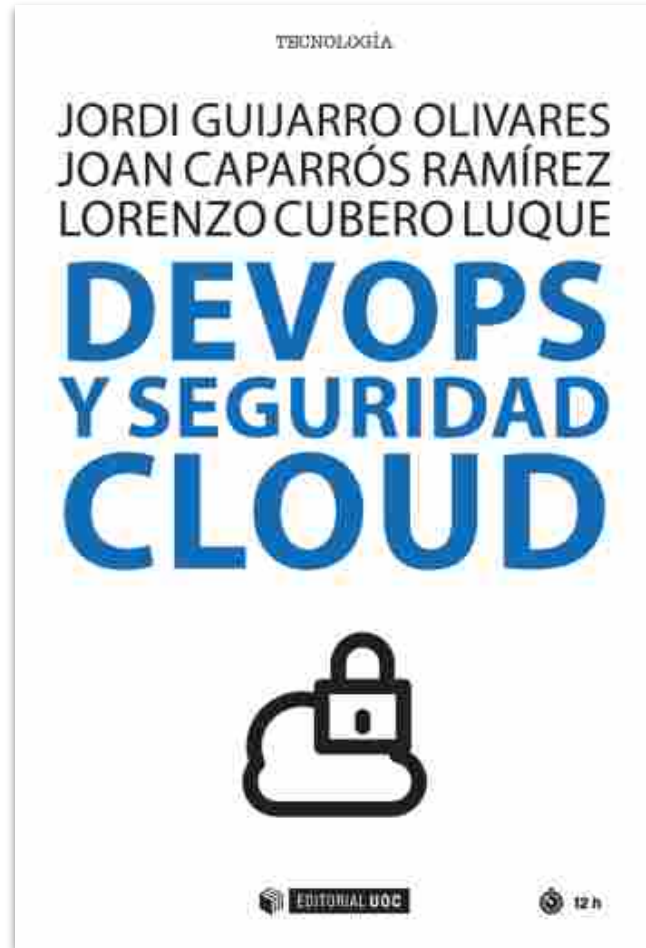
DEVOPS SUMMIT – RSA 2020



TAULA RODONA

“DEVOPS Y SEGURIDAD CLOUD”

ISACA BCN - 3/3/2020



#devopsyseguridadcloud @cloudadms



16:15 Cloud & DevOps - Jordi Guijarro

16:30 Agile & DevOps – Lorenzo Cubero

16:45 DevOps tools & Usecase - Joan Caparrós

17:00 Taula Debat -> Nou Repte: “DevSecOps”

(+ Francisco Rueda – AgileCoeinf)

TECNOLOGIA

JORDI GUIJARRO OLIVARES
JOAN CAPARRÓS RAMÍREZ
LORENZO CUBERO LUQUE

DEVOPS Y SEGURIDAD CLOUD



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12 h



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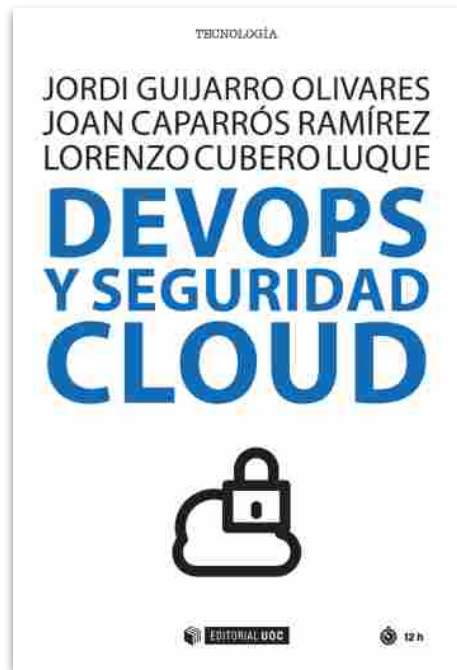
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¿Què
podem
trobar en el
llibre?

<http://devopsyseguridadcloud.cloudadmins.org>

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Cloud i DevOps!

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The Beginning of the Public Cloud

August 2006 - 13 Years Ago



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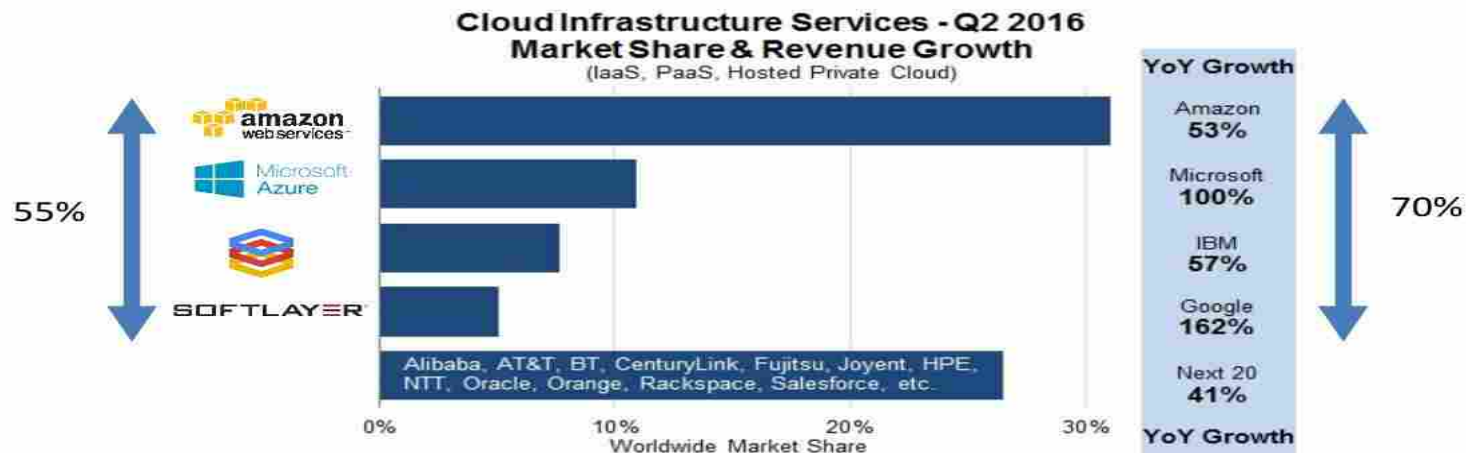
Announcing Amazon Elastic Compute Cloud (Amazon EC2) - beta

Posted On: Aug 24, 2006

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable compute capacity in the cloud. It is designed to make web-scale computing easier for developers. Just as Amazon Simple Storage Service (Amazon S3) enables storage in the cloud, Amazon EC2 enables "compute" in the cloud. Amazon EC2's simple web service interface allows you to obtain and configure capacity with minimal friction. It provides you with complete control of your computing resources and lets you run on Amazon's proven computing environment. Amazon EC2 reduces the time required to obtain and boot new server instances to minutes, allowing you to quickly scale capacity, both up and down, as your computing requirements change. Amazon EC2 changes the economics of computing by allowing you to pay only for capacity that you actually use.

The State of the Public Cloud Market

Public Cloud Market Becoming an Oligopoly



Highly concentrated market

The 4 big players aggregate the 55% and the next 20 players the 25%

Increasing concentration

The 4 big players growing 70% and the next 20 players 41%

Source:

• <https://www.srgresearch.com/articles/amazon-leads-microsoft-ibm-google-chase-others-trail>

Public Cloud Datacenter Footprint

A Global Infrastructure



14 regions



30 regions







6 regions



A Fierce Competition to Grow Data Centers

Focus on Deploying Massive, Centralized Datacenters

	Zones (2016)	Servers (Millions)	New Zones in 2017
 amazon web services	38	2-4	9
 Microsoft Azure	30	1-3	8
	31	0.5	-
SOFTLAYER	6	0.5-1	8



Each zone can have 1 or more datacenters
Most datacenters house between 50K and 80K servers

The 4 big players house between **4 and 8 millions of servers**

This number is estimated to **grow 25% annually** (probably much higher if we consider their 70% annual growth in revenues)

Sources:

- Company web sites
- <http://datacenterfrontier.com/inside-amazon-cloud-computing-infrastructure>
- <http://www.datacenterknowledge.com/archives/2013/07/15/ballmer-microsoft-has-1-million-servers/>

Distributed Cloud Computing

Public Cloud Is a Fraction of IT Infrastructure Market

Public Cloud only represents 12% of Internet computing power

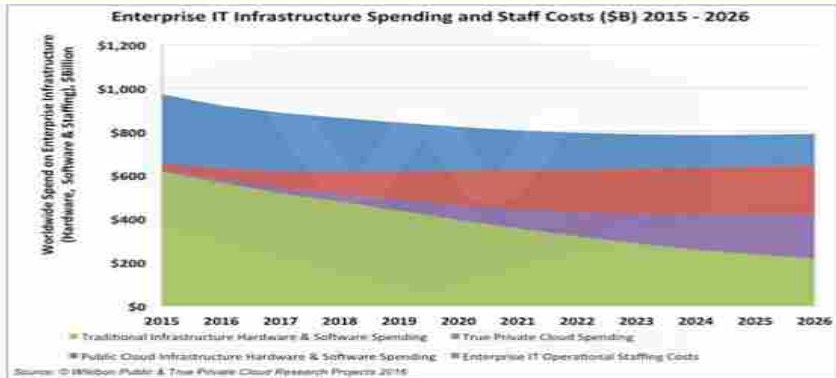
10 million blade servers shipped annually

50 million servers in operation in 2016 (not including public cloud)

Public Cloud represents a tiny fraction of existing data centers

3 million data centers only in the U.S. in 2013

Number datacenters growing, peaking at 8.6 M worldwide by 2017



IT Infrastructure Spending in 10 Years

- Public cloud
- Private cloud on-premises and off-premises with hosting services, colocation or managed hosting
- Traditional IT

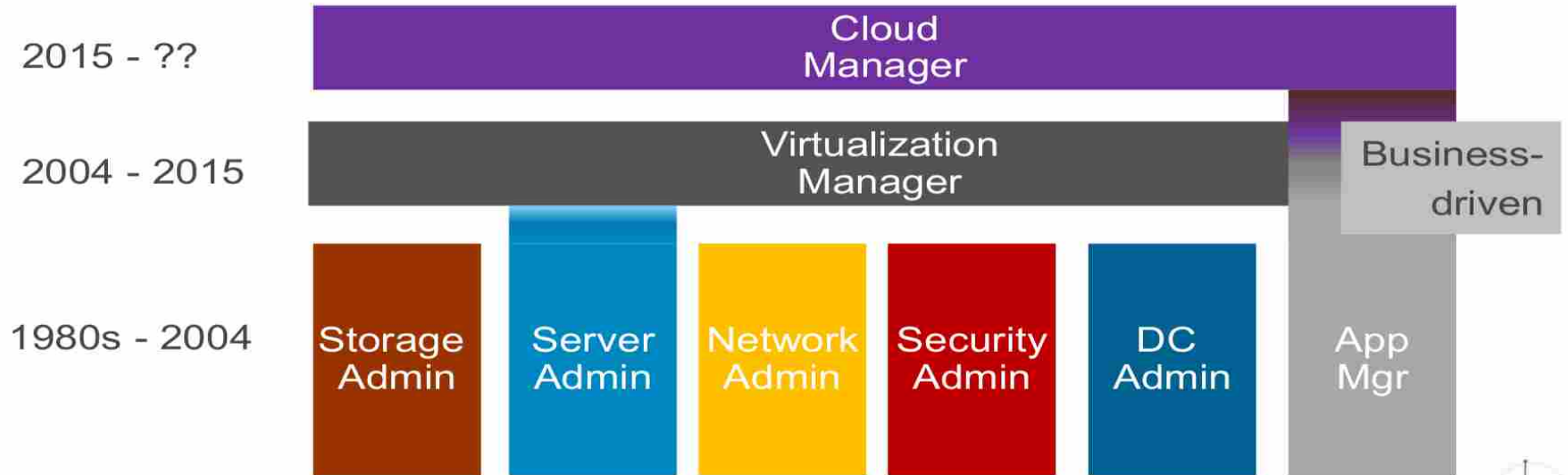
Most enterprises, 68%, run less than 20% of their workloads in the cloud

Sources:

- <http://www.gartner.com/newsroom/id/3530117>
- <http://energy.gov/eere/articles/10-facts-know-about-data-centers>
- <http://worldstopdatacenters.com/idc-number-of-data-centers-will-peak-at-8-6-million-in-2017-then-begin-to-decline/>
- <http://www.forbes.com/sites/louiscolombus/2016/03/13/roundup-of-cloud-computing-forecasts-and-market-estimates-2016/#1632a1fd74b0>

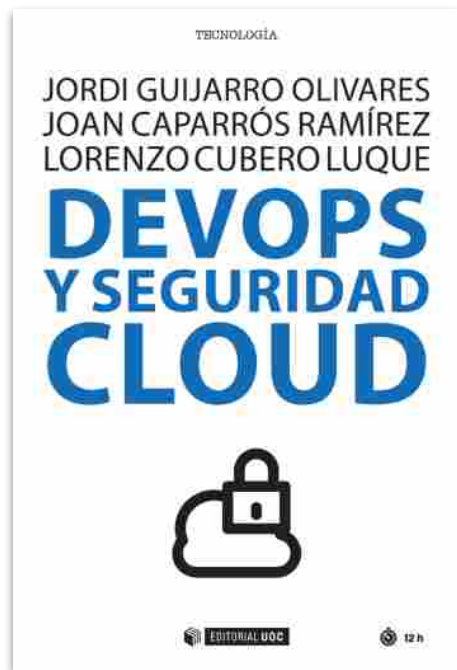
El nou rol de Sistemes a DevOps: Enginyer Cloud

L'adopció de models cloud, la disponibilitat, l'escalabilitat de les aplicacions, la seguretat i la gestió de recursos en entorns flexibles de pagament per ús són reptes tangibles per al Cloudadmin o Enginyer Cloud.



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Mètodes àgils!

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Learning by doing!

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DevOps Apply

Netquest

Barcelona Area, Spain

Posted 5 days ago · 44 views

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Job description

Netquest is the online fieldwork provider for the market research sector leader in Spain, Portugal and Latin America. We currently have more than 1,000,000 consumers willing to give us their opinion in 21 countries, and the latest technology to manage and survey them.

We are now looking for a DevOps who can help us keep everything running as reliable and efficiently as possible. Are you up for the challenge?

Responsibilities:

- The installation, configuration, deployment, maintenance and administration of our staging and production environments.
- The architectural design of new projects, in close collaboration with our development team.
- Automation using Amazon Web Services and existing open source tools like Puppet, and supplement them with your own tools.

The kind of projects that we are working on is for example:

- Making sure our architecture can scale out to ten times the number of participants
- Organizing parts of our infrastructure in containers (using Kubernetes)
- Migrating parts of our databases to new data-storage technologies

What we offer

Contact the job poster



Job posted by

Silvia Cloaca · 2nd
Recruitment Partner at Net...
Barcelona Area, Spain

Send Inmail

Industry

Information Technology and Services, Internet, and Marketing and Advertising

Employment type

Full-time

Experience

Associate

People also viewed



Infrastructure & Operations SysAdmin
ABA English
Barcelona, Catalonia, Spain · 6d



Administradores/as de sistemas
Trentia Consulting
Barcelona y alrededores, España · 6d



SysAdmin Senior
Edrans
Barcelona y alrededores, España · 26d



TechOps Consultant / IT Administrator
ThoughtWorks
Barcelona, Spain · 10d



Senior Linux System Administrator
Beabloo
Barcelona Area, Spain · 8d



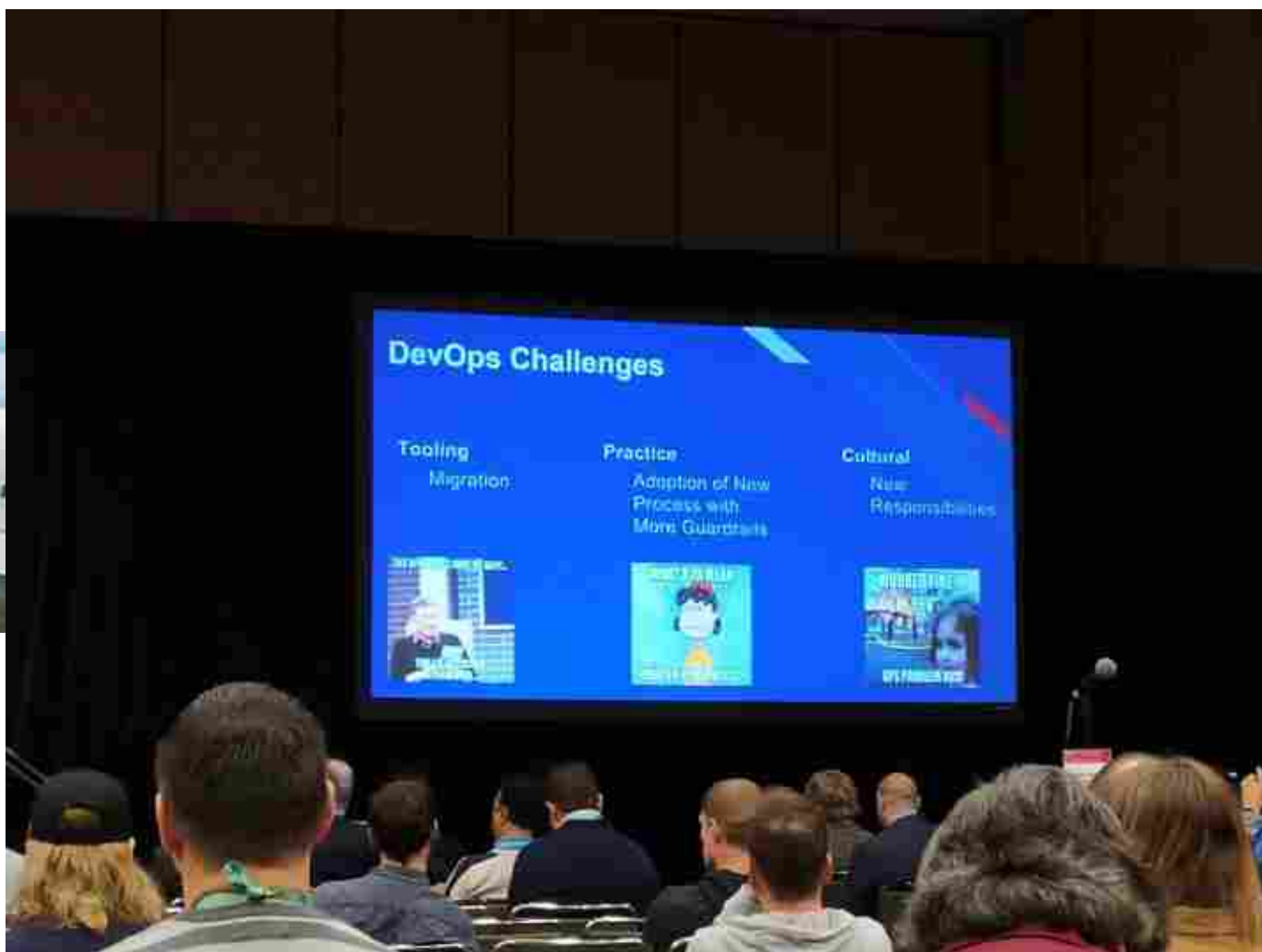
Administrador de Sistemas Cloud Senior
CIRSA
Barcelona y alrededores, España · 6d



Devops Enginner with Java
Sopra Steria
Barcelona y alrededores, España · 24d



2 connections





RANCHER vs OPENSHIFT



INSTAL·LACIÓ: de 20 minuts a 2 hores

ACTUALITZACIONS INCREMENTALS
I CONSISTENTS

SUPORT DE PLATAFORMA + CATÀLEG

ESTÀNDARD DE LA INDÚSTRIA: CNCF

COST: 1X



INSTAL·LACIÓ: 3 DIES a unes poques
setmanes

INFORMES d'actualitzacions
amb fallades i Rollback

NOMÉS DE PLATAFORMA

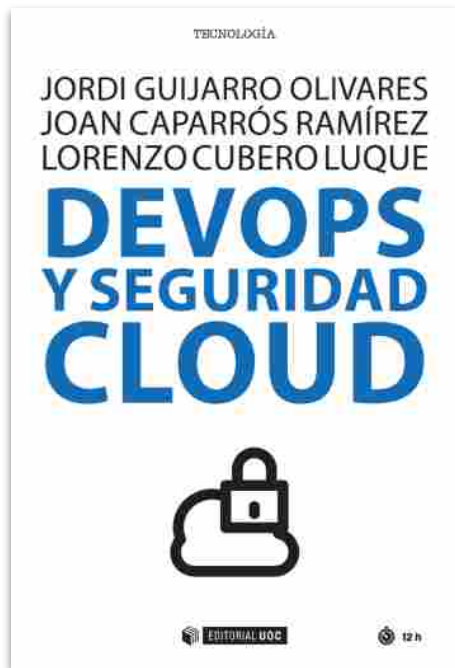
NO CNCF

COST: 5X -10X



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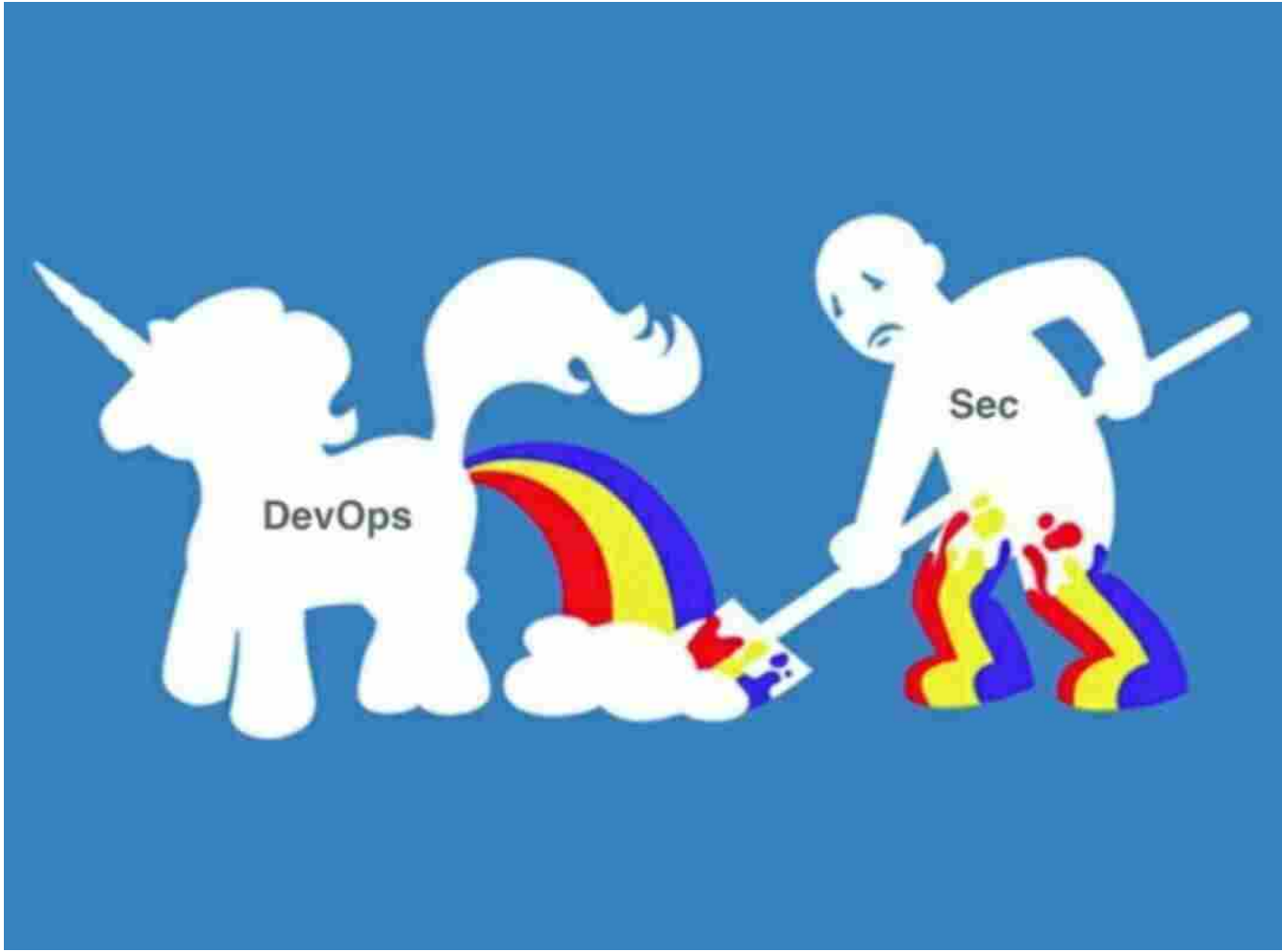
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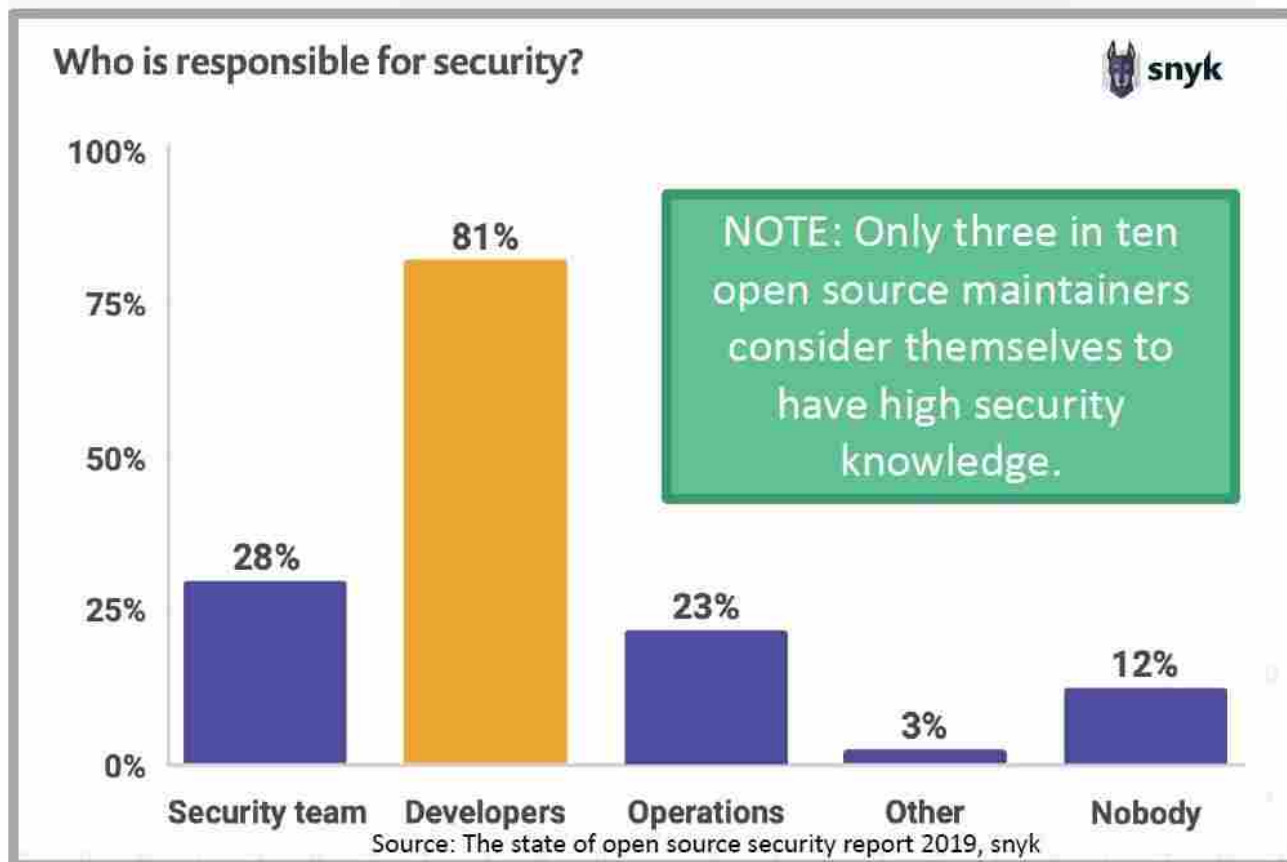
Flexibles i segurs!

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The responsibility for security



The goal of an application security program

IT IS NOT

To reach zero bugs
because it's not
possible!

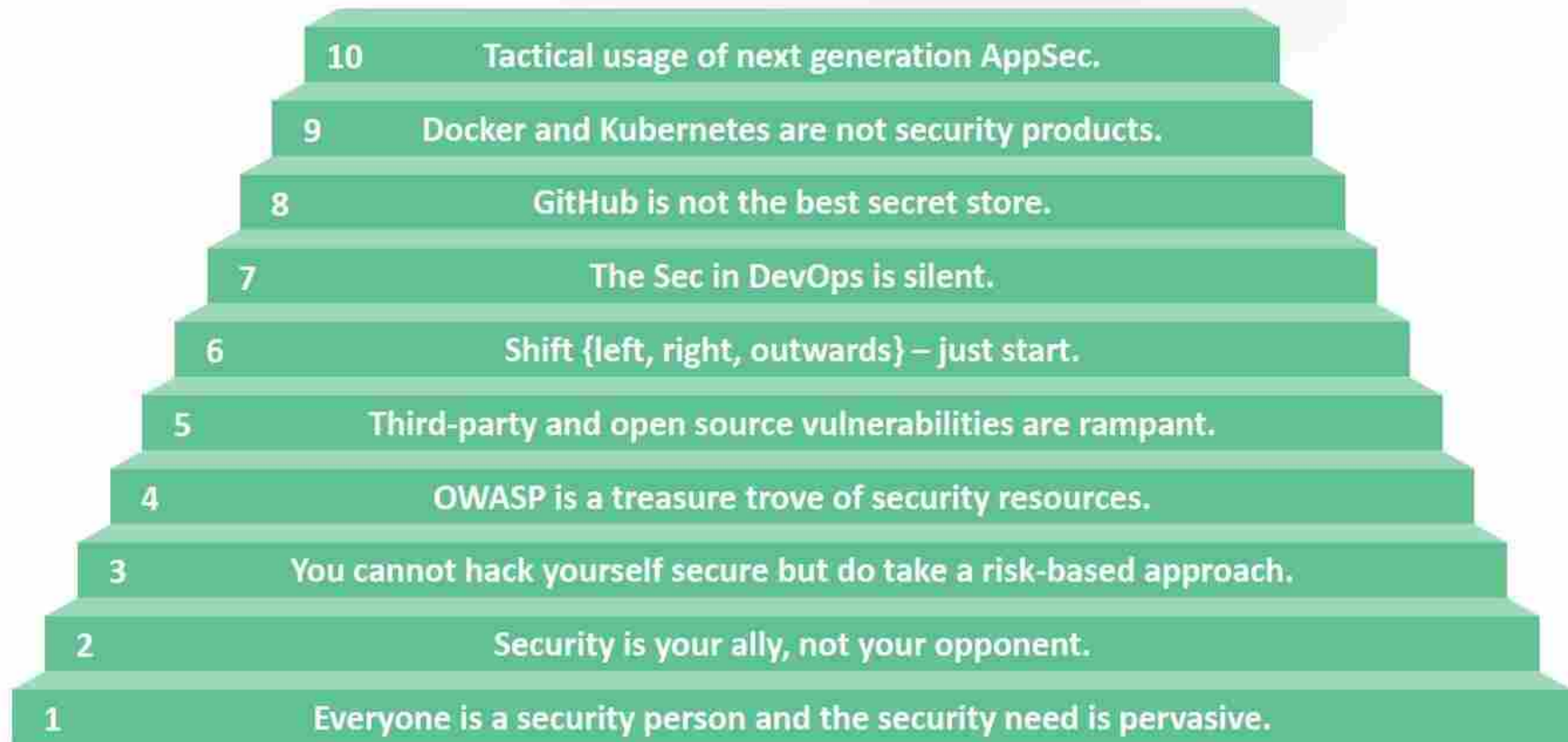
To reflect blame upon
developers for
security concerns.

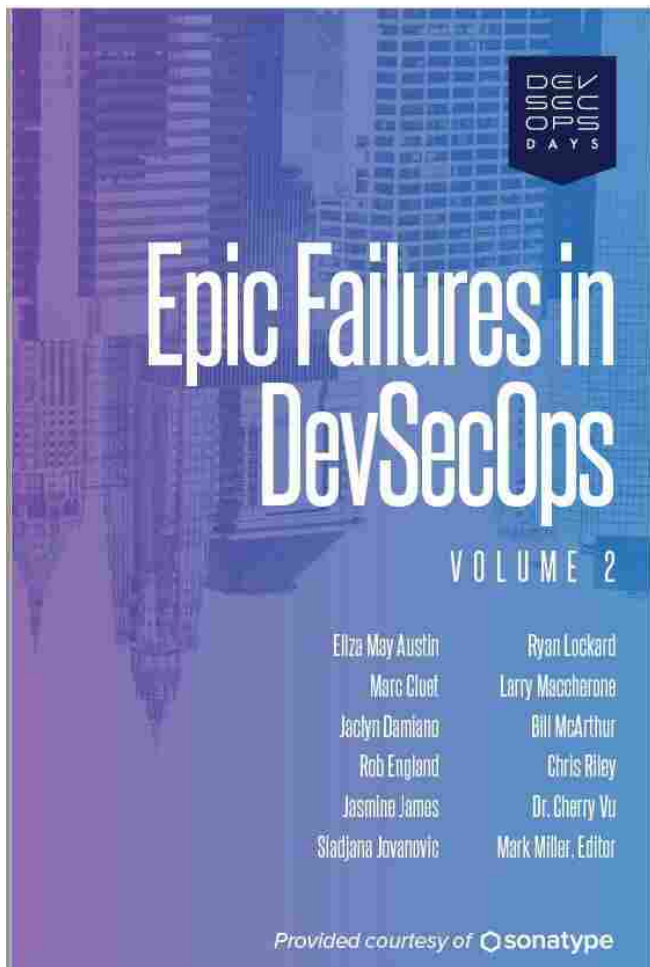
IT IS

To fix bugs
faster...and...to
illuminate as many
vulns as possible.

To measurably
improve the security
posture of the
organization.

Summary of “Ten things I wish every developer knew about security”







Participa!



Sorteig!



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Gràcies a tots i totes!



Barcelona Chapter



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