devops

Dev / Ops Synergy

and much more

Gildas Le Nadan

10 years + IT Ops

Freelance

From
building with lego®

to
coffee machine
discussions

Devops

origins

Devops enablers

Agile
Web
OpenSource

Enterprise IT in its infancy

a differentiator!

➥ **deployed whatever the cost**

Enterprise IT nowadays

A cost center!

➥ mitigation through ITIL, etc

Nowadays on the web

IT is still a differentiator!

➥ devops!

Had a revelation. A reason #devops has risen to attention: People that had to just make the web work 10+ yrs ago are now the senior staff.

@brianlmoon

Why

devops ?

The deployment problem

Dev vs Ops

Just heard of a place that ties bonuses for ops staff to availability and bonuses for devs for milestones #payingpeopletofight #notdevops :)

@allspaw

[Agile manifesto]

**developped
fonctionalities
vs.
application availability**

**creating value source
vs.
creating value while
offering a service**

Value exist only if the service is provided !

➥ **Importance of Non Functional Requirements (NFR)**

Non Functional Requirements

Diagnostic
Packaging
Scalability
Stability
Versionning
Updates
Security/traceability/auditability
Access control
Managing shared ressources
...

To a sysadmin your config files and logs are often their only UI. Think of the UX of XML and exceptions. #devop

@ripienaar

Solutions to the deployment problem

➥ **communication**

➥ automation

➥ continuous integration

➥ information radiators

➥ etc…

Business alignement

➥ KPI, Measures

No dogma,

No manifesto

Values

Culture
Automation
Measure
Sharing

John Willis & Damon Edwards

Culture

Number of engineers

★

Servers/engineer

★ ★

Services/engineer

Cooperation
vs.
Silos

automation
vs.
process

Self Service!

Adaptation of Agile techniques

scrum, scrumban, kanban, lean, standup meeting, retrospectives, pairing, …

Automation

Infrastructure as Code

Andrew Shafer

We need APIs!

~~Servers~~

Services

Servers = silos

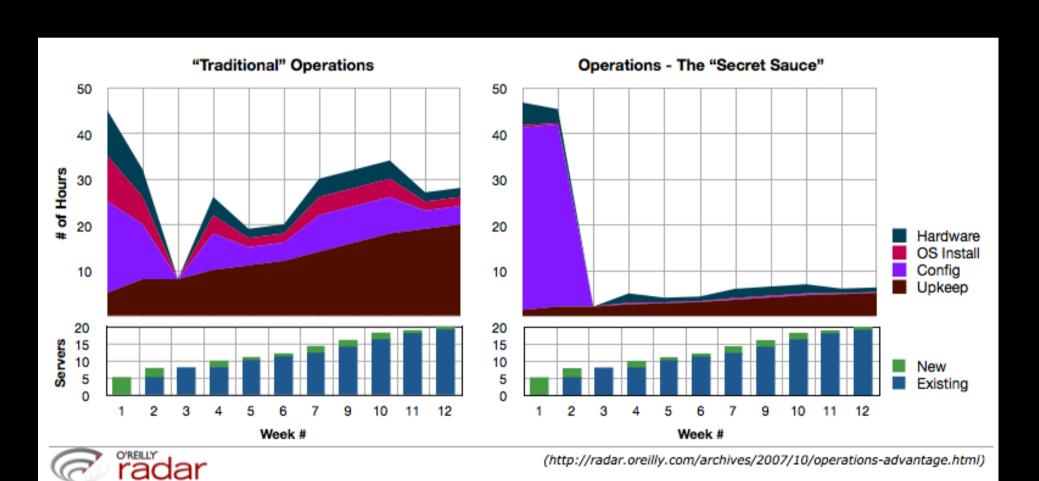# Facts not names

RI Pienaar

Opensource?

Necessary
diagnostic,
adaptability,
investments durability,
lower infrastructure debt

Not sufficient

Infrastructure Debt

Opscode, Andrew Shafer, Israel Gat

(http://radar.oreilly.com/archives/2007/10/operations-advantage.html)

workaround_in_prod
=
infra_debt++

Stack

Applicatif

Framework

Système d'Exploitation

Hardware

Push_complexity_down the_stack
=
infra_debt++

Loose coupling

Measure

[graph here]

swap: for times when you want massive performance degradation to happen somewhat silently rather than fast failure and recovery.

@jordansissel

MTBF
Mean Time Between Failure

MTTD
Mean Time To Diagnose

MTTR
Mean Time To Repair

Keep
It
Simple
Stupid

Feedback is important

(Eat your own dogfood!)

MTTC
Mean Time To Communicate

webmetrics

Sharing

Common Vision

Common problems

Common vocabulary

Common tools

Devopsdays

Devops meetups (+dojos?)

Devops mailing list
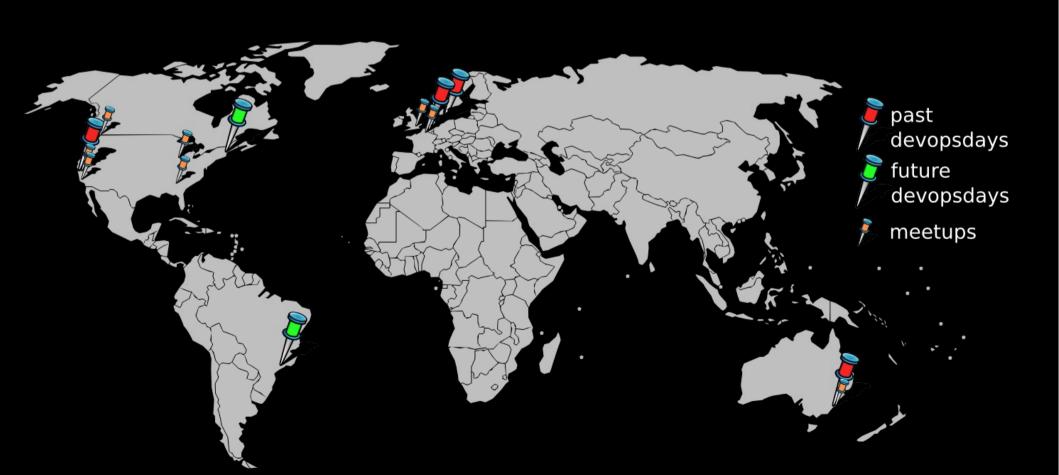
Every day I hear about more ops jobs @ great companies around the world. We need an ops university so better talent can develop.

@jsoltero

Devops

1 year later

➥ **5 devopsdays**
➥ **growing # of meetups**
➥ **jobs!**

past
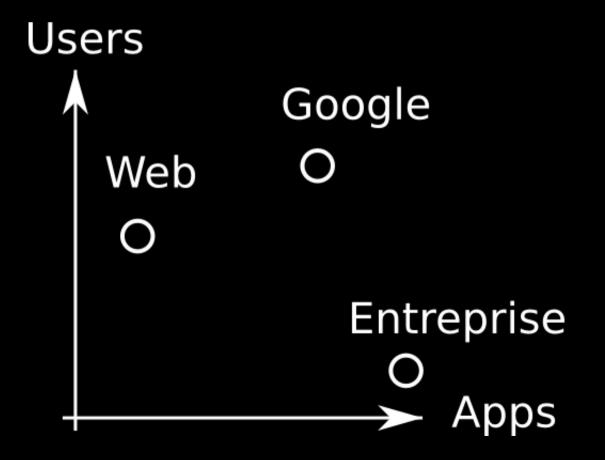devopsdays

future
devopsdays

meetups

Devops

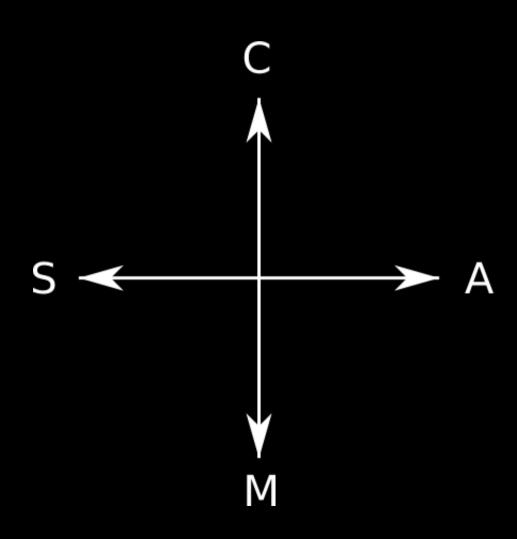# actual
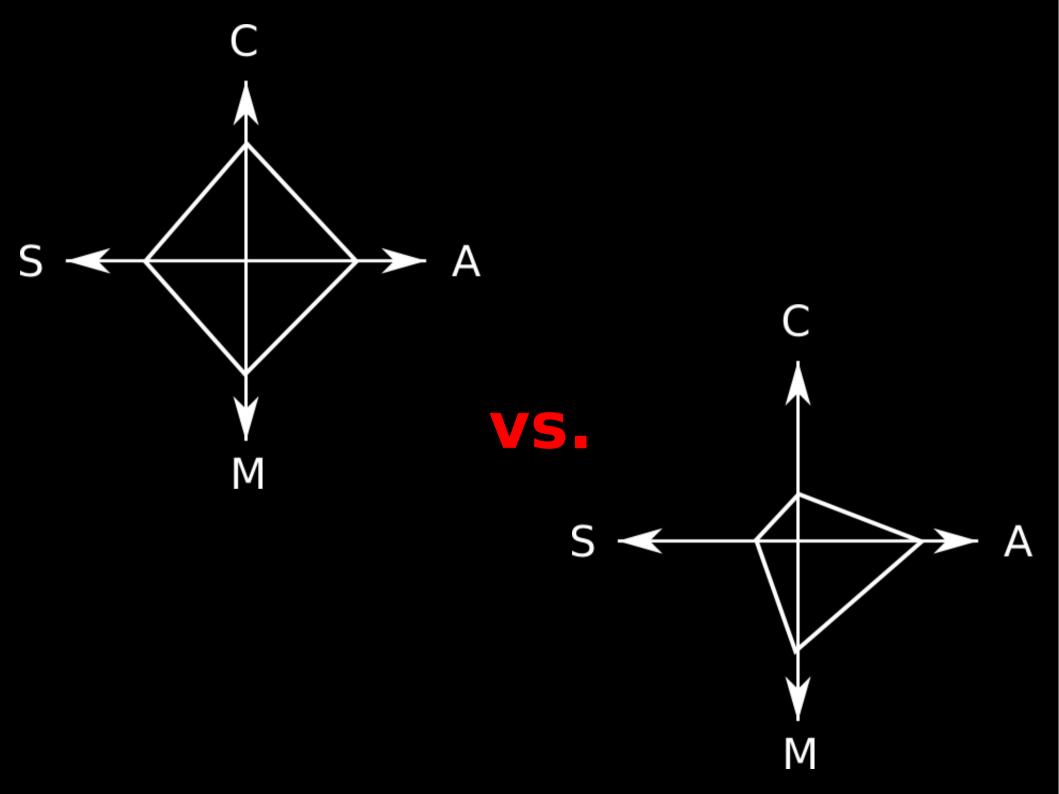# challenges

Web business
vs.
"classic" business

Managing 1000+ servers in a datacentre should be as easy as putting together an Ikea cupboard #devops

@geogdog

Evaluating the devops strategy?

C

S ← → A

M

VS.

C

S ← → A

M

Monitoring!

Service oriented
Adaptable
Scalable

Load testing in continuous integration

Packaging distribution applications and external applications

"OS Bloat" and framework that sucks !

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@endemics

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http://www.devopsdays.org/
http://www.devopscafe.org/
http://www.planetdevops.net/