

~~Docker~~ Moby is killing your devops efforts

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@krisbuytaert

Kris Buytaert

- I used to be a Dev,
- Then Became an Op
- CTO and Open Source Consultant
[@inuits.eu](mailto:inuits@inuits.eu)
- Everything is a freaking DNS Problem
- Evangelizing devops
- Organiser of #devopsdays, #cfgmngmtcamp, #loadays,

Today's Plan:

- Opening some eyes
- Fixing all my docker problems
- Reusing 9 year old slides

C(L)AMS

- Culture
- (Lean)
- Automation
- Measurement
- Sharing



• *Damon Edwards and John Willis*



Dev/Ops

A global movement to improve the quality of software delivery leveraging Open Source experience, started in Gent in 2009



Because the old days:

- “Put this Code Live, here's a tarball” NOW!
- What dependencies ?
- No machines available ?
- What database ?
- Security ?
- High Availability ?
- Scalability ?
- My computer can't install this ?

10 days into operations



This new 'D' hype

- New kid on the block
 - Vagrant-lxc with a nice cli
 - The Ultimate “devops tool”
 - “Unseen” growth
-
- Docker is the new cool thing to do



Docker Docker

Docker Docker

Docker

Docker

Moby
Moby

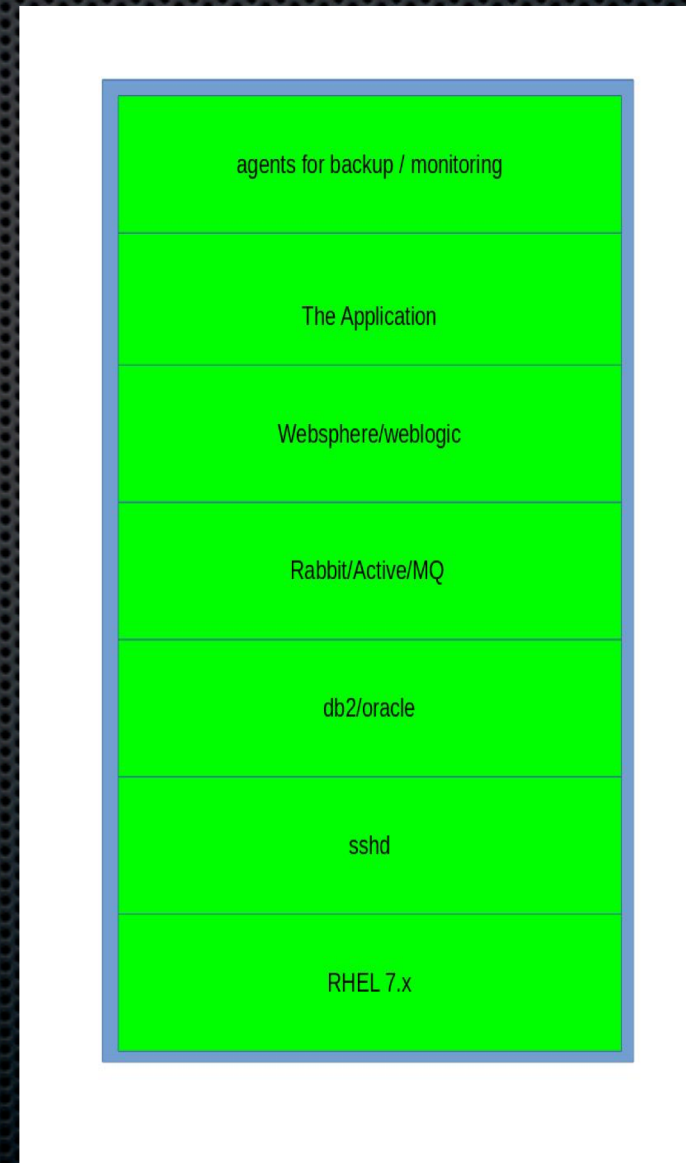
Moby Moby

Moby

Moby

A Enterprise Container

- No different from a full vm
- Multiple services running in one container
- Ssh is the default connection



Elephant , Monolith

VS

Microservices

 **Kenny Bastani**
@kennybastani Follow

This Dockerizing legacy apps program is kind of like paying IKEA to give your old furniture a Swedish name



Docker brings containerization to legacy apps | TechCrunch
At the DockerCon conference today in Austin, Docker announced a new service called the Modernize Traditional Applications (MTA) Program that enables cust...
techcrunch.com

RETWEETS 25 LIKES 49



 **Richard Seroter**
@rseroter Follow

Stop pretending that things work the same wherever they run (e.g. cloud). It takes work, says @caseywest. #s1p



RETWEETS 74 LIKES 68



12:39 AM - 3 Aug 2016

  74  68 

Why ?

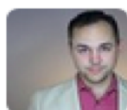
- I want a VM
- Please fill in these 4 forms
- Wait 2 weeks
- Repeat

- IT Departments have not adapted,
 - 'Shadow'-IT is winning

Devs can just ship a virtual machine?



Docker is a Package manager



Alan MacDougall
@alan_macdougall



 Follow

What's bundler? A package manager.
How do I get it? Use rubygems. What's
rubygems? A package manager. How do I
get it? Use apt.

 Reply  Retweet  Favorite  More

RETWEETS
17

FAVORITES
9



6:10 PM - 16 Aug 2014

Docker is a Package manager



 **Guillaume**
@gardaud ⚙️ + Follow

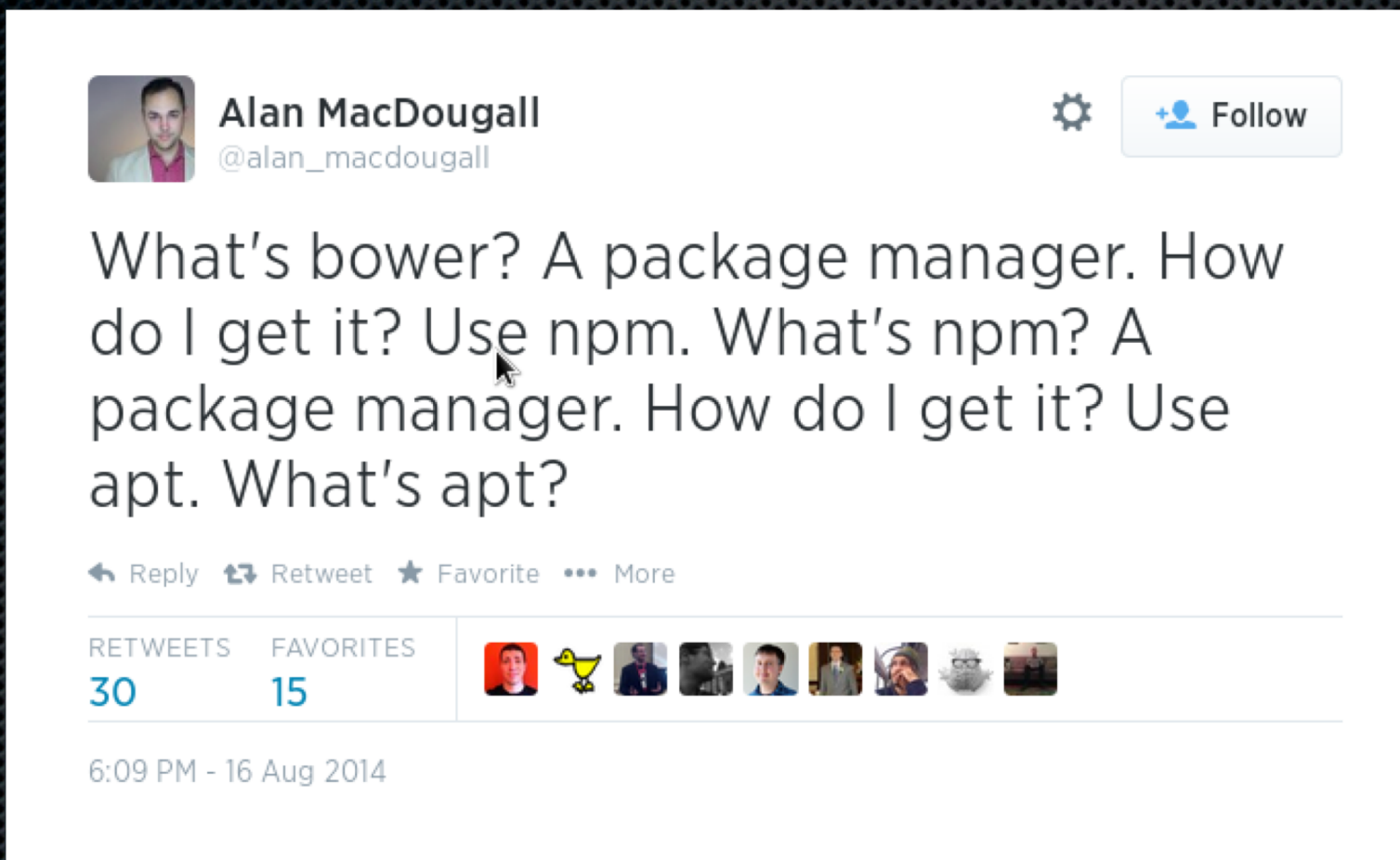
“What’s pip?”
“A python package manager”
“How do I install it?”
“easy_install pip”
“What’s easy_install?”
“A python package manager”

← Reply ↻ Retweeted ★ Favorite ⋮ More


RETWEETS	FAVORITES
4,409	1,761



1:10 AM - 18 Jul 2013

Docker is a Package manager







A screenshot of a tweet from Alan MacDougall (@alan_macdougall) posted on August 16, 2014. The tweet text is: "What's bower? A package manager. How do I get it? Use npm. What's npm? A package manager. How do I get it? Use apt. What's apt?". The tweet has 30 retweets and 15 favorites. The interface includes a profile picture, name, handle, a settings gear icon, a follow button, and interaction icons for reply, retweet, favorite, and more. A row of user avatars is shown below the statistics.


 **Alan MacDougall**
@alan_macdougall

  Follow

What's bower? A package manager. How do I get it? Use npm. What's npm? A package manager. How do I get it? Use apt. What's apt?

 Reply  Retweet  Favorite  More

RETWEETS 30 FAVORITES 15



6:09 PM - 16 Aug 2014

Groovy there's a docker in my CI pipeline

About 31,700 results (0.56 seconds)

[direct-lvm with xfs causes Docker to hang when disk is full · Issue ...](#)
<https://github.com/docker/docker/issues/20707> ▼

direct-lvm with xfs causes **Docker** to hang when disk is full #20707. Open. samuelkarp opened this Issue on Feb 25, 2016 · 23 comments ...

[docker fails to mount the block device for the container on ... - GitHub](#)
<https://github.com/docker/docker/issues/4036> ▼

Feb 10, 2014 - After the **corruption** occurred I started **docker** in debug mode - the output This also occurred on our slave that was using xfs on devicemapper ...

[file system corruption with devicemapper/aufs · Issue #7229 · moby ...](#)
<https://github.com/docker/docker/issues/7229> ▼

Jul 24, 2014 - **Corrupt** files (**docker** run myimage md5sum /some/file returns I have been using devicemapper (thin provisioning, XFS) on a Xen HVM, with ...

[Docker 1.13.0 volume mapping file corruption - Stack Overflow](#)
stackoverflow.com/questions/.../docker-1-13-0-volume-mapping-file-corruption ▼

Jan 26, 2017 - I hit a similar problem today using **Docker** 1.13.0 running a CentOS image on a ... This is is related xfs filesystem with overlay mode.

These Days

- “Put this Code Live, here's a Docker Container ”
- No machines available ?
- What database ? Where to store the data ?
- Security ? What distro is this even ?
Bad Cows ?
- How do we monitor his ?
- Backups ?
- How did you build this ?



11 days into operations

- “Put this Code Live, here's Dockerfile”
- What corporate proxy ?
- Oh I missed 2 other containers
- Security ? What distro is this even ?
Bad Cows ?
- What do you mean “We are a RHEL shop ?”



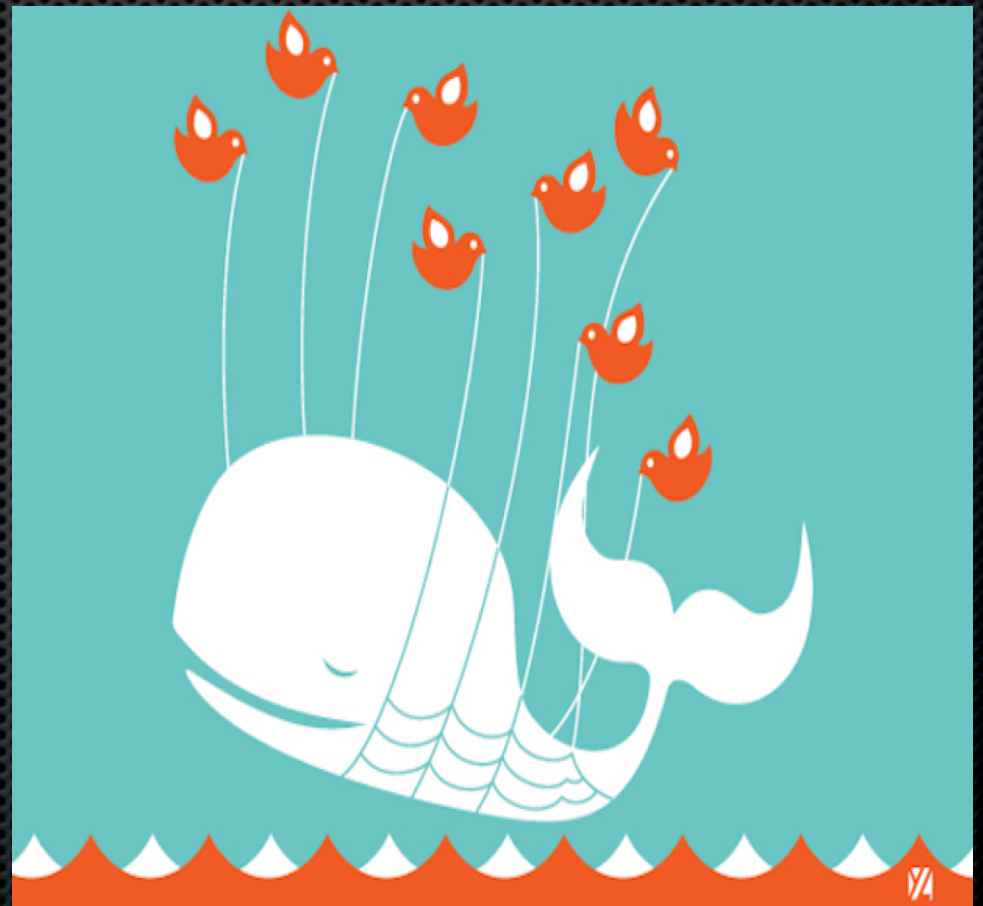
Closing the gaps between dev and ops, **AGAIN !!**

- Where do your containers come from ?
- Who build it ?
- Can you rebuild it ?
- Do you even need a container
- How do you build the hosts that run the containers ?
- Infrastructure as code ++

Image Build by devs,
maintained by nobody



docker



Can you ?

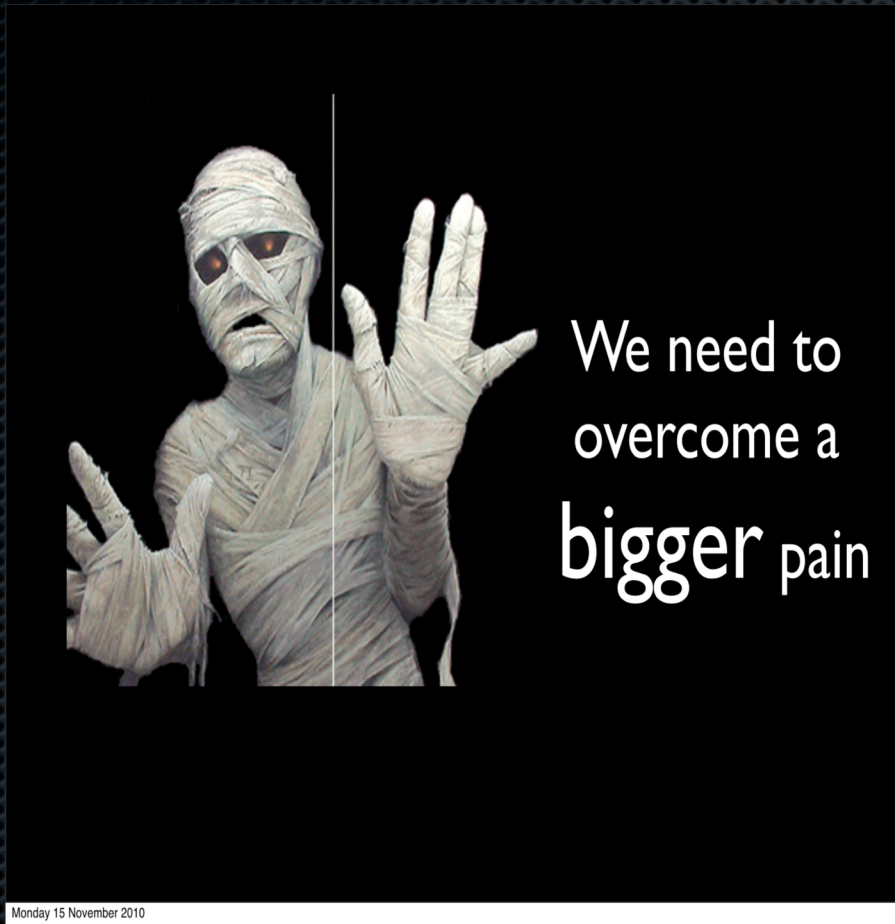
Rebuild from Scratch



Monday 15 November 2010

- When GitHub is down ?
- When rubygems.org is down ?
- When someone removes a Node.js library ?
- Fix critical Security Issues ?
- Can your business survive if you answer NO to these questions ?

It's still about collaboration



- I love docker as a technology
- I hate that it too often put us back 5 years with regards to Culture adoption
- Docker is an easy victim, there's other tools that create similar situations
- It's still mostly about Culture

Contact

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Further Reading

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