

The Pragmatic Cloud

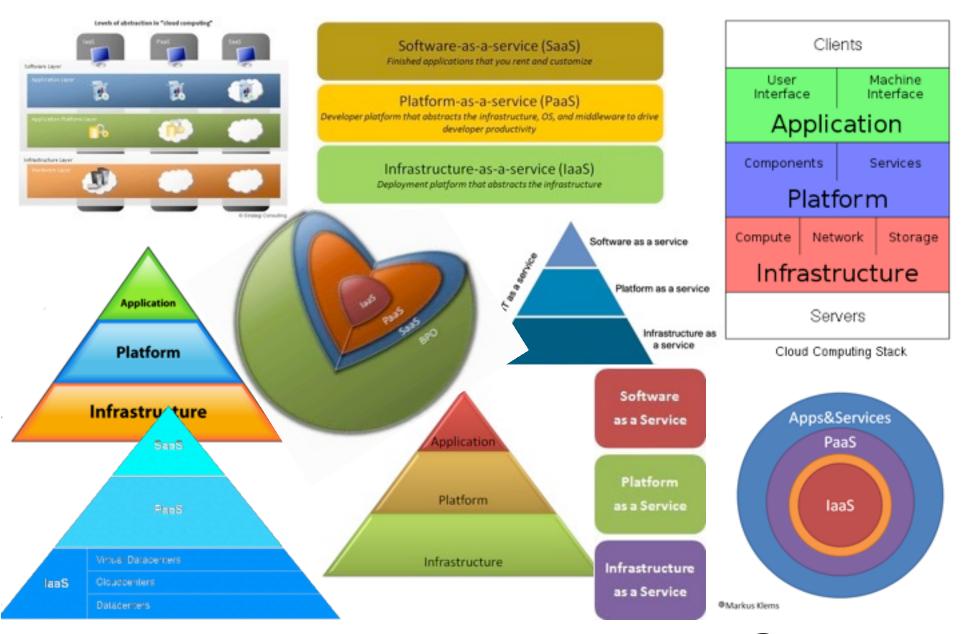
what development should care about

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conclusions

- Happier users with better applications it's not just about the software anymore
- Thus far, most cloud-talk is operations focused
- Development should start taking advantage of cloud technologies, responsibilities
- Agile is a good start

what is "cloud"?



From William Vambenepe (@vambenepe)

burgers & aaSes

- SaaS, PaaS, laaS application, middleware, servers
- Public or private
- Amazon and everyone else
- Usually: virtualization, model-driven automation, web apps, dev/ops



things to point at



• laaS - Amazon EC2, S3, etc.



 PaaS - Force.com, Microsoft Azure, IPP, Heroku

SaaS: SalesForce, Zoho,
 Google Apps, Paglo (Citrix),
 Service-now.com







Puppet







for users

- SaaS Google Apps,
 Salesforce, etc.
- Business apps that behave like consumer web apps better applications
- Lower cost & faster delivery
- Remote control for the cloud



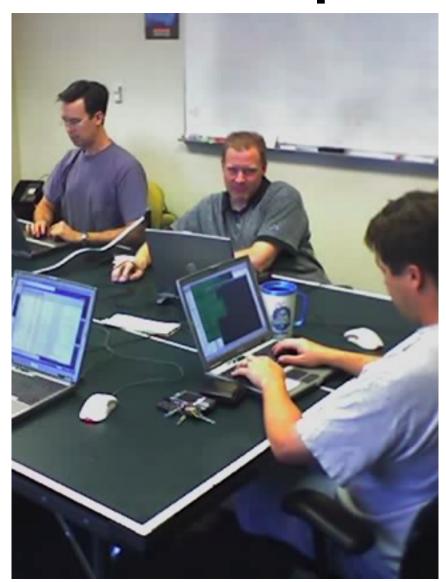
for operations

- "Cloud" moving infrastructure off premise
- "Private cloud" automating, virtualizing, selfservice
- Focus on infrastructure, not applications



for developers

- Becoming ops friendly or subversive if you dare
- Using cloud tools & practices to deliver applications
- Getting closer to the user with faster delivery



making users happy

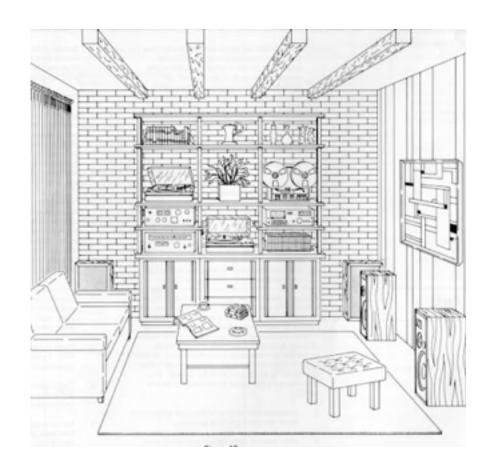
- Face it: most IT is terrible, boring, & complex
- Continually simplifying
- Lusting for cheap feedback

"The computer is a moron."

-Peter Drucker

less to manage

- This probably means delivering as a SaaS
- Perhaps with a PaaS lockin risks
- Cloud-friendly, if needed



"apps" vs. "applications"

"What we are looking to do is find other small areas that we can build a nice small app that's done really well that can help hundreds of thousands of the QuickBooks millions."

-Brian Sweat, Product Manager at Alterity, Inc.

Flexible & Cheap

Marketplaces & Feature delivery

User Expectations

beyond tracking suffering

"I can actually look at [a feature] and say, 'nobody uses feature X.' It's not even being looked at. And it really helps us shape the future of the app which, on a desktop product, we don't have a lot of data like that."

-Brian Sweat, Product Manager at Alterity, Inc.

User analytics

Aggregate analytics

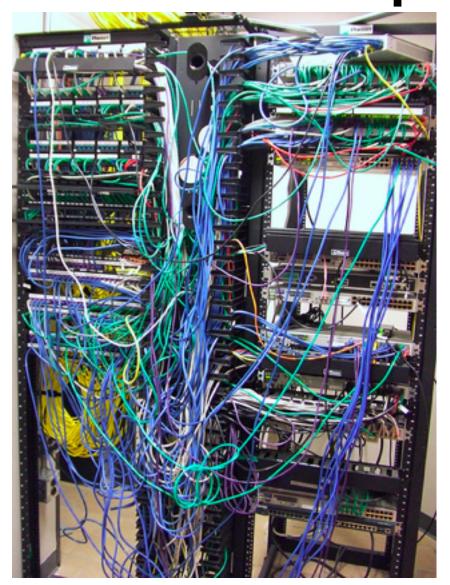
Feature analytics

operations as bottle-neck

- While developers have been delivering faster, operations has used process as armor
- "Change management" means "preventing change"
- But, they can't be blamed they need help!

making friends with ops

- Learn what/how operations people talk & worry about
- Service desks, automation, service catalogs, SLAs, provisioning
- Know their ivory tower & their muck

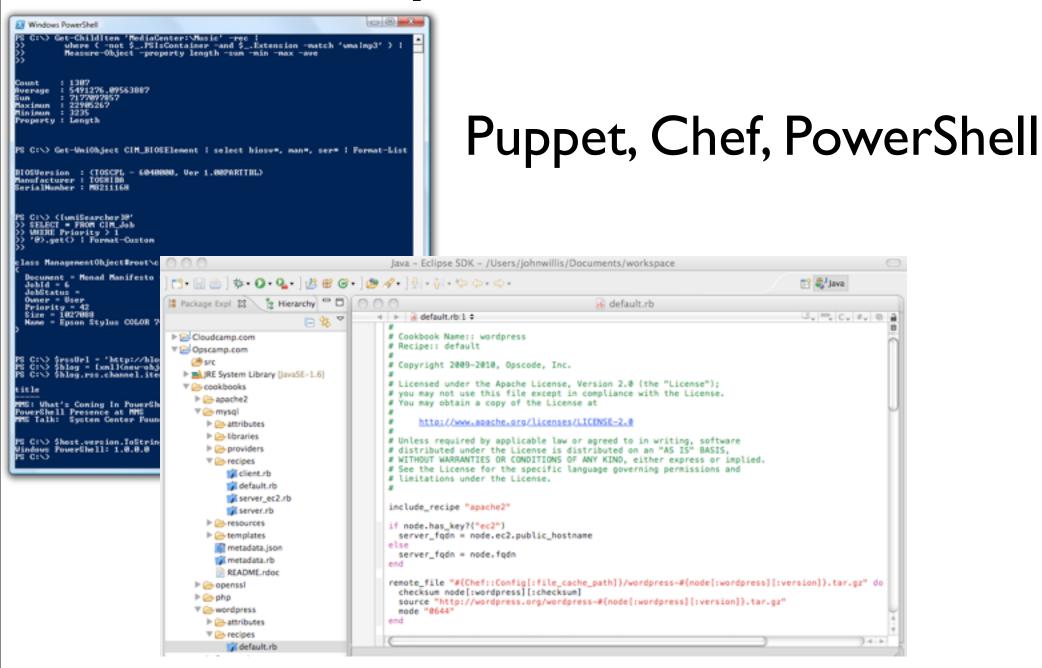


developing for the cloud

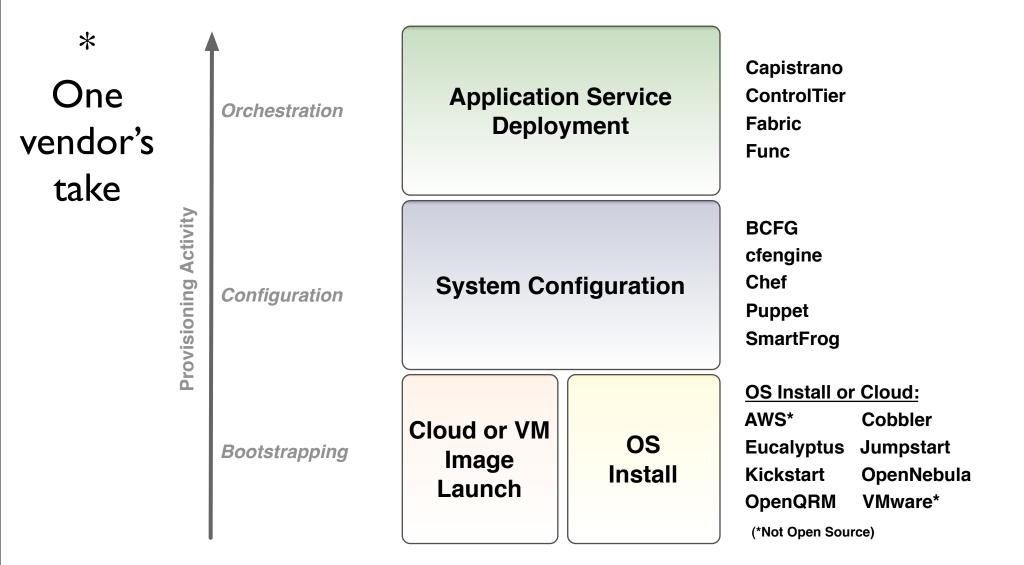
- Application geared towards automated delivery
- Quick and easy to configure
- Development must program operations modeling, instrumenting
- The window test



"operations as code"



"fully Automated Provisioning"



From http://dev2ops.org/toolchain

a tool: cloud labs

- Self-service sysadmin
- As with virtualization, dev & QA are early frontiers
- Build-farms, no IT hassle
- Provisioning vs. Configuration



The Crazy aaS Dream

One day, the development team will complete the iteration

Every story works, and the app is shippable

Minutes after the review meeting, operations clicks a button, & the users start using the new features

Thank you!

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Credits & Co.

- Cloud model madness http://stage.vambenepe.com/archives/1355
- Larry quote: http://news.cnet.com/8301-19413_3-10448200-240.html
- Burger, CC-BY: http://www.flickr.com/photos/yogma/3630108509/
- Woman "user": http://www.flickr.com/photos/smithsonian/2536001835/
- Operations guy: http://www.flickr.com/photos/doctorow/2698332863/
- Crazy wiring: http://www.flickr.com/photos/clonedmilkmen/3604999084/
- Chef screenshot: John Willis (john@opscode.com)
- PowerShell screenshot: http://en.wikipedia.org/wiki/File:Windows_PowerShell_I.0.png
- Brian Sweat quotes: http://www.riaweekly.com/2010/01/26/riaweekly069/
- Fully automated provisioning: http://dev2ops.org/toolchain