

Amazon and the Future of the Open Cloud

(or something like that)

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First, to our hosts:

Thank you.



The n00b CTO





AMAZON, I CHOOSE YOU!



Stuff I no longer worried about:



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Which distro I was running (Chapter Three!)



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A backup strategy (snapshot every day!)



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A backup strategy (snapshot every day!)

The machines in our existing datacenter

Security!



clouds are soft and comforting....



...until they're not.



4/21/2011

(Never Forget!)



Stuff I started worrying about again:

Which distro I was running (Who is Chapter Three???)

A backup strategy (hard drive in my safe!)

The machines in our existing datacenter (how can I use them?)

Security!



...and then it all blew over.

(But what if it hadn't?)



Intermezzo: Creepy Story Time



The public cloud is awesome...
...but sometimes you just want your own.



Why Amazon is Winning

...or, "why you should have gotten Steve Yegge and/or Mark Shuttleworth and/or Charlie Sheen for this talk."



Google "Steve Yegge rant".



AWeSome Steve Yegge Quote:

"Amazon gets it. Amazon's AWS is incredible. Just go look at it. Click around. It's embarrassing.

We don't have any of that stuff."

(Go read the rest yourself. Now. Srsly.)



Yegge in a Nutshell:

AMZN == Best cloud platform/API.

Best cloud platform/API == Best developer ecosystem.

Best developer ecosystem == Game over.

(P.S. Microsoft did this a long time ago. Remember?)



Now Google "Shuttleworth AWS".



AWeSome (but wordier) Mark Shuttleworth quote:

"All the proprietary and ad-hoc things that preceded HTTP have died, and good riddance. Similarly, cloud infrastructure will converge around a standard API which will be imperfect but real. Innovation is all about how that API is implemented, not which API it is...

Today, cloud infrastructure is looking for its HTTP. I think that standard already exists in de facto form today at AWS, with EC2, S3 and some of the credential mechanisms being essentially the core primitives of cloud infrastructure management."



And another AWeSome Mark Shuttleworth quote:

"...those who make an authentic effort to fit into the AWS protocol standard immediately gain access to chunks of the AWS gene pool, effectively gratis. From services like RightScale to tools like ElasticFox, your cloud is going to be more familiar, more effective and more potent if it can ease the barriers to porting from AWS. No two implementations will magically Just Work, but the rough edges and gotchas can get ironed out much more easily if there is a clear standard and reference implementations."



Shuttleworth in a Nutshell:

We've got an API.
It's AWS.
Let's roll.



Thus, AWS:



Open Cloud Solutions



Eucalyptus

- * That's us, so we get first billing ;)
- * All in with AWS
- * Lots of production deployments
- * Company-driven (Eucalyptus)
- * GPLv3, open core...
- * ...but getting back to our open roots, come see us



CloudStack

- * Maps to AWS with CloudBridge
- * Ask them about production deployments
- * Company-driven (Citrix, formerly Cloud.com)
- * GPLv3, ask them about their business model
- * Very fine fellows who bought my dinner last night



OpenStack

- * An emerging set of cloud-building tools
- * Moving forward quickly
- * Driven by a broad corporate community
 - * Led by Rackspace
- * Apache Licensed



Will OpenStack support the AWS APIs?

Ask them. :)



The leading private cloud vendors will be open source.



questions / comments / kthxbai

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