Imagine you know...

..who is going to win the cloud tech race :)

Muharem Hrnjadovic
@al maisan

Rackspace International



tl;dr

Cloud computing: future of IT

OpenStack: future of the cloud



cloud → IT → upside down

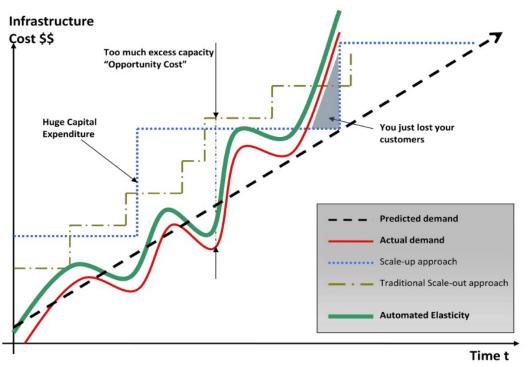




http://www.photosfan.com/images/view-upside-down-from-inside-an-airplane1.jpg



Perspective





http://media.amazonwebservices.com/AWS_Cloud_Best_Practices.pdf



Cloud drivers

- "infinite" scale & elasticity
- Pay as you go (capex → opex)
- Self service
- Minimal time to resource (business agility)
- Automation

Data centre with an API







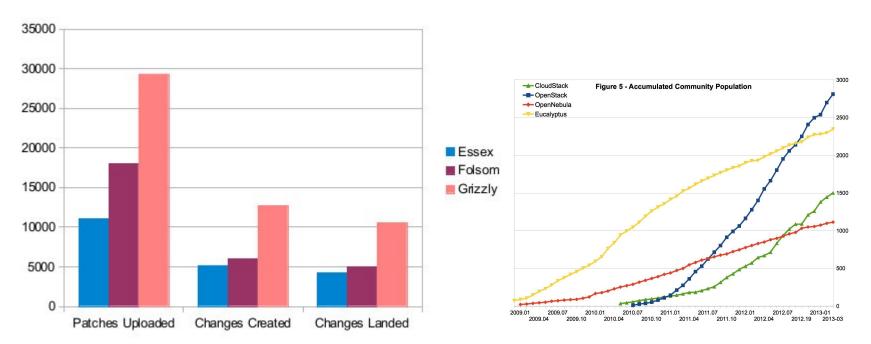
http://www.talend.com/sites/default/files/img/blog/uploads/2012/06/future.jpg

"Linux of the cloud"





"last six months .. 517 contributors"

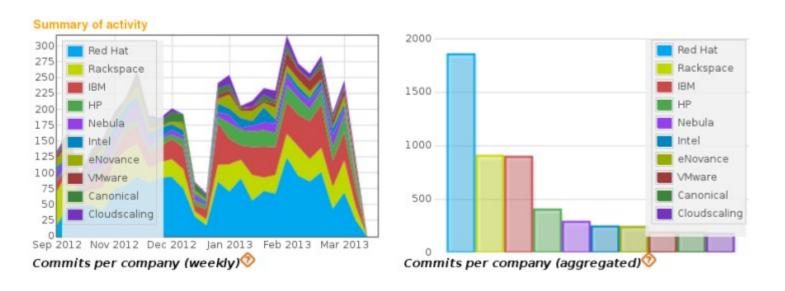




Source: http://lists.openstack.org/pipermail/openstack-dev/2013-April/007189.html

http://www.qyjohn.net/?p=3120

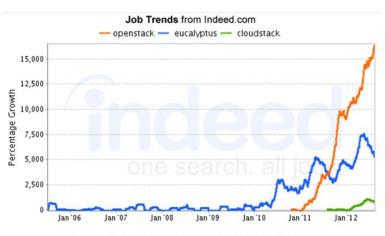
Where are these devs coming from?

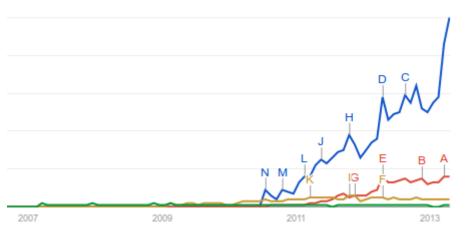




http://blog.bitergia.com/2013/04/04/companies-contributing-to-openstack-grizzly-analysis/

Momentum





Indeed.com searches millions of jobs from thousands of job sites. This job trends graph shows relative growth for jobs we find matching your search terms.

http://www.rackspace.com/blog/openstack-is-cr
eating-thousands-of-it-jobs/

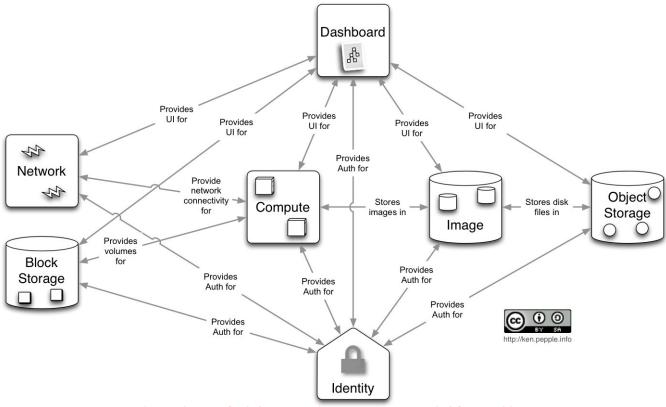




http://www.bauder.co.uk/media-centre/hot-project



~332,387 lines of code





http://ken.pepple.info/openstack/2012/09/25/openstack-folsom-architecture/

Wait! There's more

heat - orchestration

ceilometer - metering & monitoring

Marconi - queuing as a service

reddwarf - database as a service

moniker - dns as a service





Why is it cool?

- Free
- Open source
- Great community
- Fast pace
- Python!





What's in for you?

developer

Open source, great community, cool technology

user

- Lots of buzz & mind share
- Architect for the cloud, learn the services and APIs

admin

Deploy & operate the cloud



http://www.openstack.org/community/jobs/

Cloud: 14M *new* jobs by 2015





warning signs

- Equalizer
- Disruptor
- New possibilities

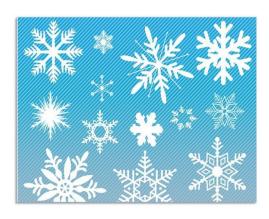


REVOLUTION



Be on the winning side :)

- Scale up out
- Gazillions of "machines" → automation
- No more snow flakes (*sniff*), pets vs. cattle









Learn how to...

- leverage industrial strengh systems (linux)
- automate (Chef, puppet)
- program (python)





Pick Openstack!

- Widely used (knowledge, staff, jobs)
- Versatile (1 15,000 servers; public, private, hybrid)
- Big, vibrant community
- Developed at fast clip (bug fixes, features)



Crazy stuff!!

- AOTERRA
- Heater systems
- Green energy, ecology
- Crowd funding: 750,000 EUR
- OpenStack

