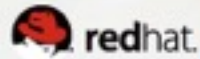


OpenStack

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联合主办:



协办单位:



OpenStack Deployments Around the World

Uli Hitzel 欧里

Senior Architect, Red Hat APAC

May 13th, 2015





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About Uli

- Senior Architect at Red Hat
- based out of Singapore, covering APAC
- web infrastructure, virtualization, automation, cloud
- software developer → project manager → consultant → architect



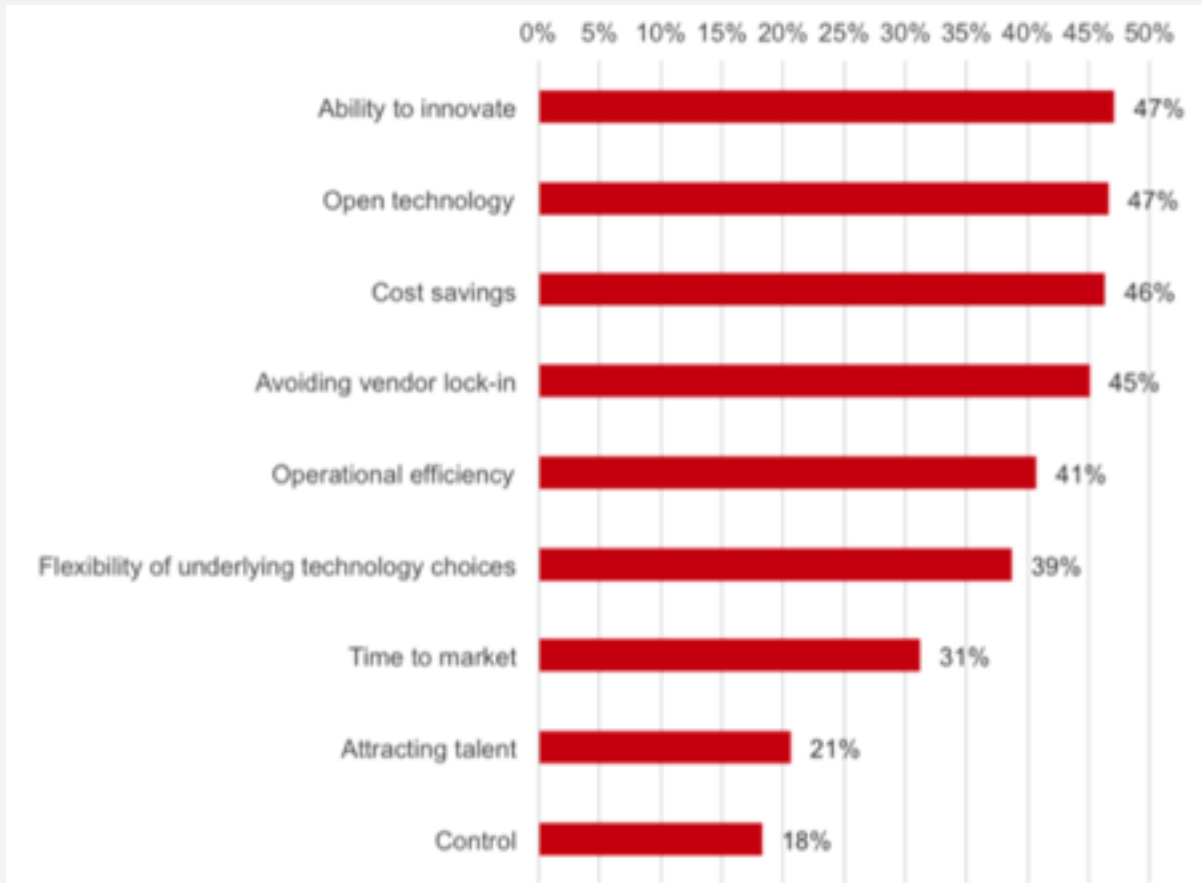
OpenStack

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Who is using OpenStack?

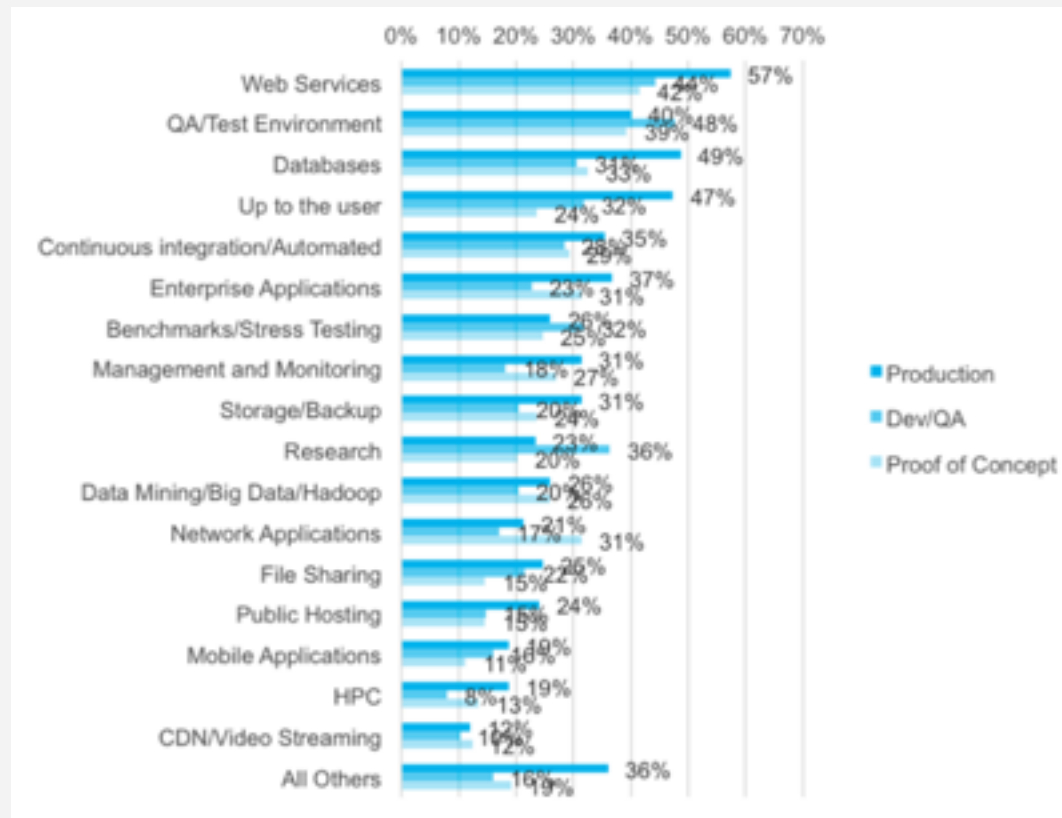
Why?

Business Drivers



Source: OpenStack.org User Survey, November 2014

Workloads



Source: OpenStack.org User Survey, November 2014

What's it again?

Open source project for building a private or public infrastructure-as-a-Service (IaaS) cloud running on standard hardware

Cloud operating system that controls large pools of compute, storage and networking resources throughout a datacenter

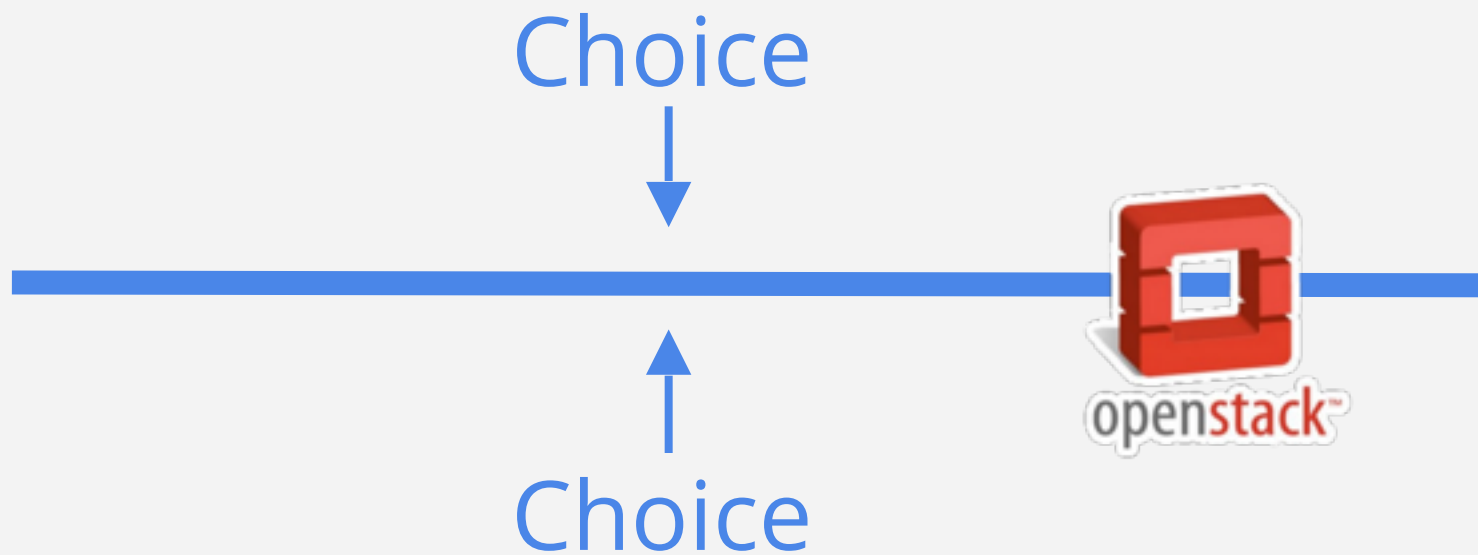
—> **Community** of global collaborators creating open source software to build public and private clouds



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Why?



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Workloads are changing



Use Cases



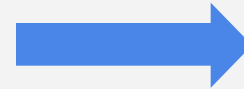
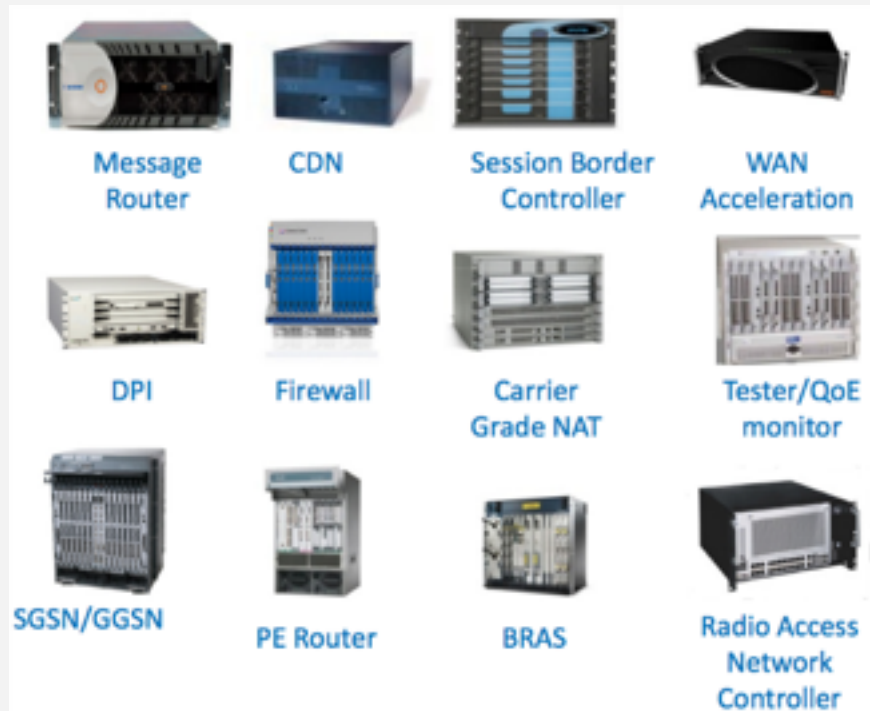
- **Telco / ISP public cloud offering**
- **Internal Private Cloud**
- **AWS Equivalent**



- **Content Farm**
- **Scale-Out Storage**
- **AWS S3 Equivalent**
- **Enterprise Drop-Box**



- **Network Functions Virtualization (NFV)**



OpenStack

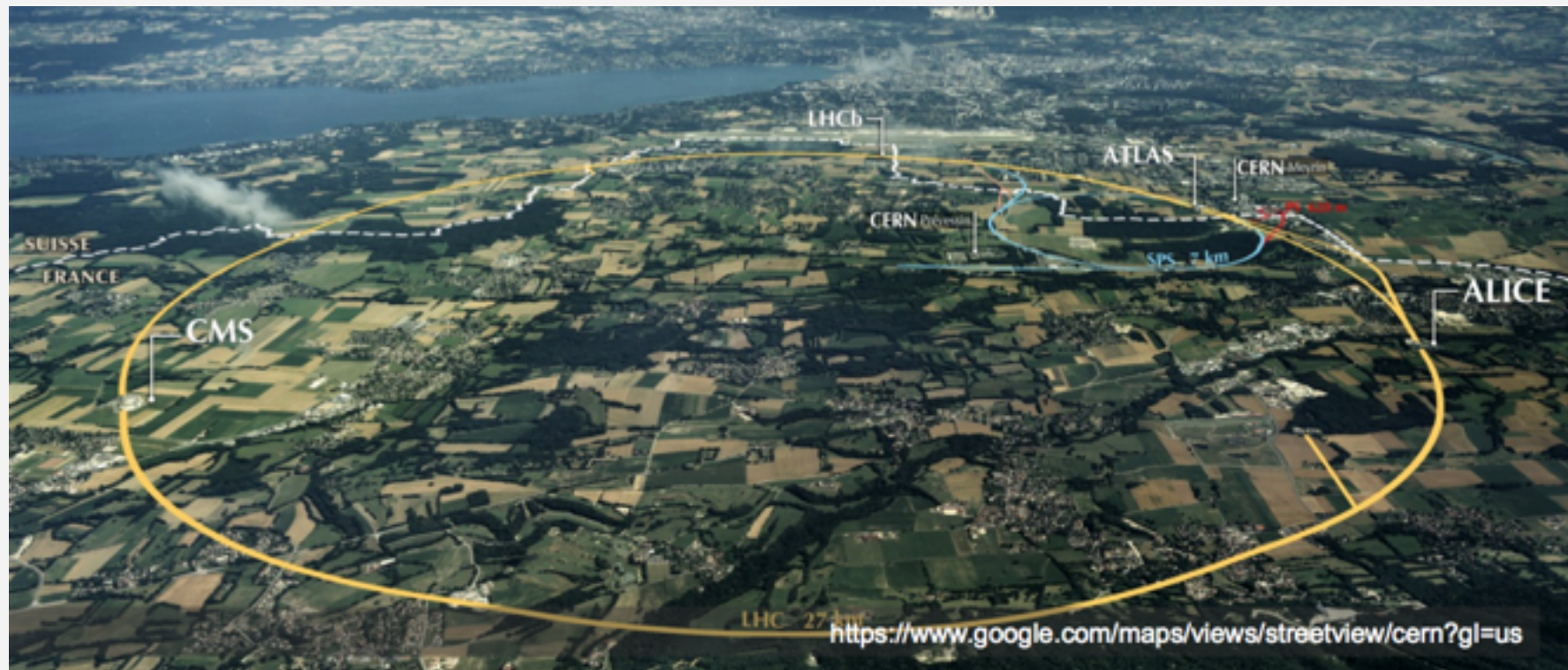
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Workloads are changing



OpenStack

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Cern: Data Analysis & Storage

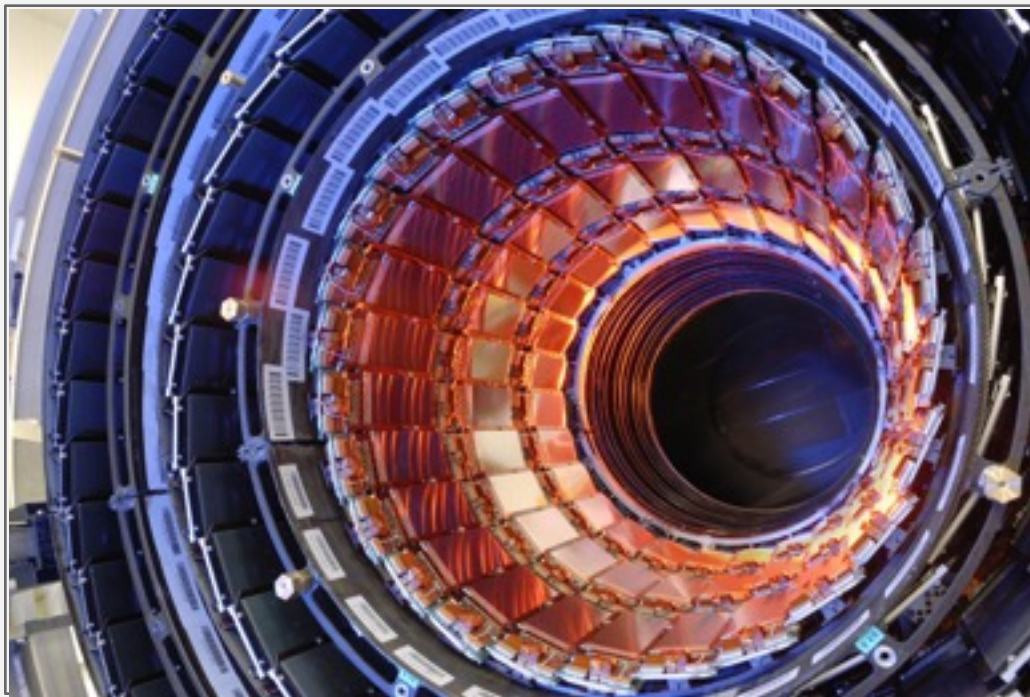


Image: Cern

- Cern Large Hadron Collider: particle accelerator
- 40m photos/sec → 1 PB/sec of data
- OpenStack & Ceph
- 100k+ processor cores
- analytics results in minutes instead of months

eBay

- multi-tenant, multi-region, self-service OpenStack cloud
- provides on-demand computing resources for all eBay developers
- project started 2012
- 95% of eBay traffic powered by OpenStack
- ~7k servers
- “frictionless” -- no tickets, no people, get job done
- Advantages: reduced app provisioning time from 4 weeks to 30 minutes.
- Saved double-digit million dollars on hardware
- Issues: capacity management. No vendor can fix their problems with community distributions
- using Trove for DBaaS, contributor



BMW

- started in-house Python-based development project for cloud management
- complexity, not enough efficiencies
- openness, no vendor lock-in
- OpenStack based cloud powers production of new BMW i8
- “Brutal Standardization” → 25% more cost efficient



- Advantages: Community Innovation become industry standards. Free of charge.
- Issues: stability, release cycle, culture change

In Summary

- choice
 - massive scalability
 - community powered innovation
- > only possible the Open Source way!



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谢谢