Federating OpenStack: a CERN and Rackspace Collaboration

26 September 2013

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Rackspace in numbers











9 GLOBAL **DATA CENTRES**







Global Data Centre Reach



the open cloud company

RACKSPACE® HOSTING

The Rackspace Vision





What makes Rackspace Different?

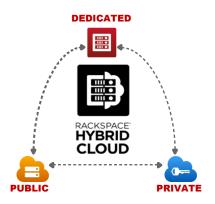
FANATICAL SUPPORT®

OPEN TECHNOLOGIES

HYBRID CLOUD







Trusted, committed experts to help architect and run your application hosting platform Created **OpenStack** to power the Hybrid Cloud and to give you flexibility to run your apps **where you want** **Best-fit architecture** for your application and business needs for today and the future



What is Openstack









To enable <u>any</u> organisation, regardless of size, to create and offer cloud computing services running on standardised hardware.



RACKSPACE® HOSTING

The OpenStack Community



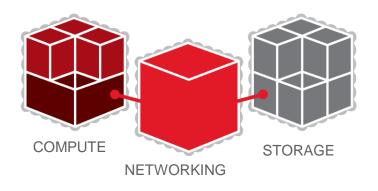


An Overview of Openstack

OpenStack is open-source software used to build public, private and hybrid clouds

SOFTWARE

OpenStack Software delivers a massively scalable cloud operating system.

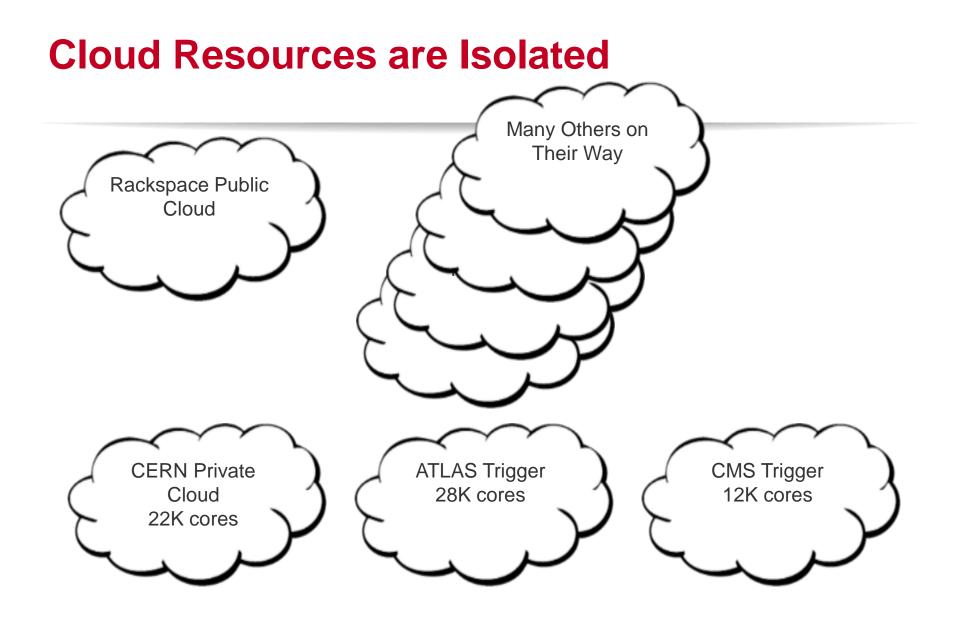


COMMUNITY

A global community of technologists, developers, researchers, corporations and cloud computing experts.











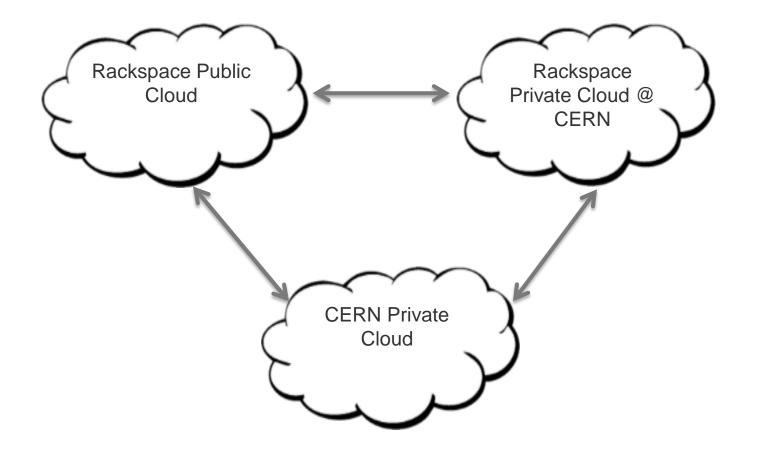
Goals for a year of joint research

- A reference architecture for federation of OpenStack clouds
- Blueprints and code contributions to the open source communities
- Presentations and white papers to allow others to build on our findings



CERN Rackspace Openlab Project

26/09/2013





How

- Deploy a Rackspace private cloud at CERN in parallel with the CERN Private cloud
- Investigate OpenStack cloud federation in areas such as Authentication, Images, Networking and Metering
 - -Architecture
 - -Blueprints
 - -Code and Configuration
- Demonstrate burst workload from private clouds to Rackspace public cloud



THANK YOU



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