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One set of credentials to spin up private and public cloud resources…it's finally happening!

Filed in **Product & Development** on May 18th, 2015 by **Joe Savak and Justin Shepherd**

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Only 4 percent of the universe is known.

Only 15 percent of server capacity is utilized.

What do these two statistics have in common? CERN.

CERN, the European Organization for Nuclear Research, is working to understand the unknown universe through its Large Hadron Collider experiments — and it's using OpenStack to maximize utilization of server capacity.

You may have heard us discuss CERN and OpenStack before. Rackspace is part of the CERN openlab

project, and we've been working to build identity federation capabilities in the Icehouse, Juno, and Kilo releases.

By the end of this year, our OpenStack-powered private and public cloud offerings will enable these federation capabilities, making it possible to use your Rackspace private cloud credentials to spin up Rackspace public cloud workloads.

We're not alone. At the OpenStack Summit, which got underway in Vancouver today, the OpenStack Foundation announced that more than two dozen companies, including Rackspace, are committed to support this new federated identity feature.
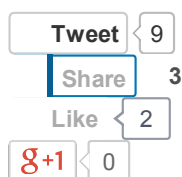
Removing this credential headache and creating your own set of trusted clouds will eventually allow you to have a platform where capacity is limitless, where scale is more scalable, and where you can finally have that playground environment that you've been wanting.

Identity federation was the first step in enabling multi-cloud workloads.

Imagine:

- Your app is running just fine in your private cloud, but a feature request requires running Hadoop. You can spin up that cluster through Cloud Big Data in the public cloud and quickly deliver.
- You are starting up a new dev team, and they're pretty new to the cloud. Ramp up their skills in public cloud, develop and test there, then migrate to your private cloud for production, with all life-cycle management running through Solum.
- You've been running in the public cloud just fine, but wanted to start taking credit-card information directly. Your company has a policy to run PCI-workloads on your private cloud. You can now do this without migrating the entire app.
- You can manage all your VMs from one control panel — no matter which cloud those VMs exist in.

Stay tuned, as we are committed to continuing to build out and enable multiple-cloud features!

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About the Author

This is a post written and contributed by **Joe Savak and Justin Shepherd.**

Joe Savak is a senior product manager at Rackspace. Justin Shepherd is a distinguished architect for Rackspace Private Cloud

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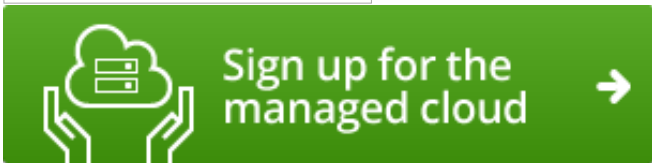
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