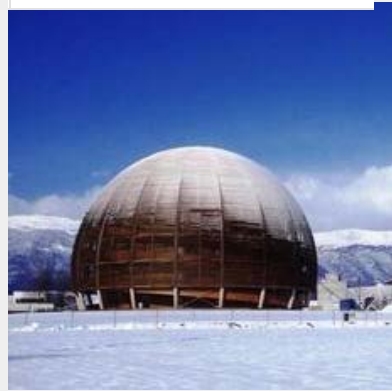


Home > Cloud Computing > News



CERN planning OpenStack hybrid cloud strategy with Rackspace

Partnership will create reference architecture for future deployments

By *Matthew Finnegan* | *Computerworld UK* | Published 14:28, 01 July 13

CERN openlab is running a pilot hybrid cloud project with Rackspace as the research facility seeks to enable the expansion of its OpenStack environment.

The year-long partnership being announced with cloud and hosting provider Rackspace is aimed at building on the work CERN has done within its own internal IT to develop a private cloud based on the open source cloud operating system.

facility in order to test and develop new technologies, operating separately from the organisation's central IT infrastructure. CERN has worked with Intel to test its processors in use at the facility in the past, for example, looking at what CPU optimisations are required for high energy physics analysis programmes.

Cloud Computing



Access Computerworld on your mobile

Get the latest news & updates from Computerworld UK on the move. [find out more](#)



BlackBerry 10

Check out our latest articles about BlackBerry's new mobile OS BlackBerry 10.



Virtualising the heart of your business

Explore ways to meet the requirements of today's cloud computing and Big Data challenges.



Cloud storage

Check out our latest [articles about cloud storage](#) on Computerworld UK.

Also in this channel

- > News
- > In Depth
- > How-Tos
- > Blogs
- > Slideshows

ADVERTISEMENT

ComputerworldUK Webcast



Follow us

Share



OpenStack's secret weapon is modularity
Users can add and remove plug-ins that best fit their needs >>

Rackspace to buy Anso Labs, advance Cloud project

[CERN modernises IT infrastructure with OpenStack and Puppet](#) | [CERN celebrates the web and how it changed the world](#) | [RightScale joins](#)

OpenStack, will support Rackspace's open cloud

The aim of the trial with Rackspace is to make it easier in future to ramp up CPU capacity to deal with spikes in demand, by managing workloads between public and private clouds. By doing so, CERN hopes to be able to enable the organisation to better cope with increases in demand from its 11,000 physicists running simulations and analysis on petabytes of data.

As part of its own Openstack private cloud, CERN is already in the process of converting its 8,000 physical servers supporting simulations and modelling around the Large Hadron Collider, a project which is expected to continue over the next two years.

"There are certain periods of the year where there are peak workload demands, and under those circumstances we find that core resources at CERN are under significant load," said Tim Bell, vice president and infrastructure manager at CERN. "It is attractive under those scenarios to be able to look at using additional capacity from outside to be able to address those peaks, without having to have capacity for those peaks at CERN all the time."

According to Bell the aim with Rackspace is to get the point where access to cloud computing within CERN is "business as usual, rather than being something that is under investigation".

[Register](#) | [Subscribe to Newsletters](#)

"We are increasingly moving to a world where there are multiple OpenStack clouds," he told ComputerworldUK. "At CERN we have one on which we are building our production environment, and there are two additional OpenStack clouds at CERN being run for experiments."

In order for CERN to be able movement of workloads between private and public clouds, Bell aims to produce a reference architecture by testing the federation of resources between its own OpenStack environment and public and private clouds hosted by Rackspace.

The results of the work will also be fed back into the OpenStack developer community, he said.

"What we hope to get out of the openlab collaboration will be a reference architecture, showing how this kind of problem can be addressed, and also a set of code contributions to be included into the OpenStack open source packages so that this can be done in other sites around the world that would deploy OpenStack."



Combined talent would fuel efforts to build up OpenStack >>

RightScale joins OpenStack, will support Rackspace's open cloud

RightScale already works as an integrator with a variety of other public and private cloud platforms, including AWS, Windows Azure and Google Compute Engine >>

The challenges facing OpenStack

Analysing the challenges of growing rapidly in an exciting new market >>

Free cloud services - Piston latest to jump on 'freemium' bandwagon

Move follows Red Hat, Rackspace and VMware in releasing free or low-cost options for their cloud computing platforms >>

Cloud computing showdown: Amazon vs. Rackspace vs. Microsoft vs. Google

The cloud industry is so young that it's hard to determine who the winners and losers are yet >>



BlackBerry 10

Check out our latest articles about BlackBerry's new mobile OS BlackBerry 10

Most Popular in Cloud Computing

Deutsche Börse Cloud Exchange will help reduce enterprise laas spend

Cloud resource trading platform will support an ecosystem of cloud brokers, says Forrester analyst

10 most powerful PaaS companies

We look at the leaders in the platform-as-a-service market

UEFA hosting partnership aids journey to public cloud

Football governing body faces rise in hactivist attacks

9 'everything-as-a-service' (XaaS) companies to watch

Everything as a Service (XaaS) describes, well, everything that can be offered as a cloud-based IT service

CIOs outline chief concerns of cloud computing

Hidden costs and poor end user experience are major concerns

EU-US data sharing deals come up for review amid Prism scandal

EU officials travel to US today to assess how European data is being used

How to negotiate a contract with a cloud or SaaS provider

A list of common, but very important 'fine print' issues that companies miss when they don't read contracts closely

How to reduce the risk of cloud service failure

Cloud computing and seven tips on how to enhance its reliability

Editor's Pick

U.S. gets flood of H-1B petitions on first day

Sky customers furious after troubled email migration from Gmail to Yahoo!

Universal Credit in the spotlight again as pilot timetable changes

Blogs

HCL injects innovation into next gen product development services

Investment raises the bar for rivals
[read more »](#)

Reshaping ITO Deals - renegotiation without wrecking the relationship

Nobody ever said "until death do us part" when they signed a contract
[read more »](#)

Oracle FY2014 results offer opportunities for sourcing professionals

Take advantage of new cloud approach and two quarters of missed sales estimates
[read more »](#)

Agile Keeps It Alive, Vital, and Dynamic

Testing Tools Market Landscape: Part 1
[read more »](#)

[more blogs ..](#)

ADVERTISEMENT

Also in slideshows :

10 open source projects that power the cloud

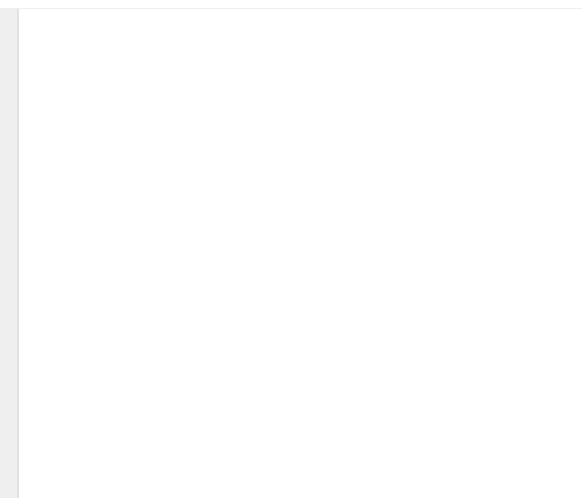
Cloud computing companies to watch - A product sampler

9 'everything-as-a-service'




(XaaS) companies to watch

[more slideshows ..](#)




ADVERTISEMENT




What economists can teach us about cloud computing

[Cloud Computing >>](#)




Box launches comprehensive Salesforce app

[Applications >>](#)



NATS forced to restrict UK airspace after 'technical problems'

[IT Business >>](#)



NASA's Mars rover Curiosity begins grand road trip

[Infrastructure >>](#)



Government and defence firms team up to fight cyber threats

[Security >>](#)



Windows 8.1 also has a few business-oriented tricks up its sleeve

[Operating Systems >>](#)

Sponsored Links »

• **Every Page Counts**

Kyocera's long life technology combines everything you expect from a copier, printer or multifunctional device with unique benefits - saving time, money and the environment.

• **Eliminate downtime. Keep employees working.**

Get Continuous email service during you exchange migration with Free Continuity Offer from Mimecast. We mitigate the risks inherent in migration to Microsoft Exchange 2010 or Office 365. Mimecast holds the key to a successful exchange migration. Find out more:

Popular Topics »

Facebook Google iPhone Laptop Windows 7 Apple Microsoft Blackberry Twitter Sun
Linux Antivirus Ubuntu Intel Oracle Cisco IBM SAP VMWare Hacker Snow Leopard



★ [Subscribe to Newsletter](#)

★ [Register for an account](#)

★ [RSS](#)

★ [Events](#)

[Techworld](#) [CIO UK](#) [Macworld](#)
[PC Advisor](#) [MacVideo](#) [Digital Arts](#)
[Marketbase](#) [CFO World](#)