

Red Hat Extends OpenStack Leadership with Enterprise-Class IaaS and PaaS Innovations

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Red Hat Enterprise Linux OpenStack Platform 4.0 updated with Foreman, Heat and Neutron support, technology preview of Ceilometer, integration with Red Hat CloudForms 3.0, and enhanced integration with Red Hat Storage 2.0

OpenShift by Red Hat available for deployment on OpenStack; Red Hat offers a preview of OpenStack-M open source deployment and management solution

HONG KONG--(BUSINESS WIRE)-- Red Hat, Inc. (NYSE: RHT), the world's leading provider of open source solutions, today announced several new innovations in support of the company's [open hybrid cloud vision](#), including beta availability of Red Hat Enterprise Linux OpenStack Platform 4.0, advancements to drive OpenShift by Red Hat on OpenStack, and a preview of OpenStack-M, an open source deployment and management solution for OpenStack-powered clouds that will be integrated into future versions of Red Hat Enterprise Linux OpenStack Platform.

In June 2013, [Red Hat delivered on its open hybrid cloud vision](#) with the introduction of [Red Hat Enterprise Linux OpenStack Platform](#), a solution that serves as the foundation for advanced cloud users who are seeking to build an OpenStack-powered cloud, and [Red Hat Cloud Infrastructure](#), a comprehensive offering designed to support organizations on their journey from traditional datacenter virtualization to OpenStack-powered clouds. Today's announcements continue that vision and extend Red Hat's continued leadership in the OpenStack community and commitment to providing industry-leading enterprise solutions based on the popular OpenStack framework for building and managing private, public and hybrid Infrastructure-as-a-Service (IaaS) clouds.

Red Hat Enterprise Linux OpenStack Platform 4.0 Beta

The beta of Red Hat Enterprise Linux OpenStack Platform 4.0 includes both OpenStack Havana and the beta release of Red Hat Enterprise Linux 6.5, and includes several new features for improved deployment and manageability of cloud computing implementations, including:

Full support for Foreman, a lifecycle management tool for physical and virtual servers that simplifies the addition of both physical and virtual compute nodes to an OpenStack deployment, aiding the deployment of Red Hat Enterprise Linux OpenStack Platform on hardware.

Full support for OpenStack Orchestration (Heat) and OpenStack Networking (Neutron), and a technology preview of Ceilometer. OpenStack Heat offers an orchestration engine to launch application stacks, while Neutron (previously Quantum) delivers "networking-as-a-service" (software-defined networking) between interface devices such as vNICs. Ceilometer provides OpenStack resource instrumentation which can help support service monitoring and billing systems in the acquisition of customer usage data.

Integration with Red Hat CloudForms 3.0. CloudForms 3.0, also announced today, now provides a single, unified management interface for an open hybrid cloud incorporating datacenter virtualization and Red Hat Enterprise Linux OpenStack Platform capacity.

Enhanced integration with Red Hat Storage Server 2.1, providing storage services for OpenStack Object Storage (Swift), OpenStack Block Storage (Cinder) and OpenStack Image Service (Glance), offering a robust and scalable storage solution for use with Red Hat Enterprise Linux OpenStack Platform.

By integrating the leading enterprise Linux operating platform with OpenStack, Red Hat Enterprise Linux OpenStack Platform delivers a stable, high-performing public, private, or hybrid OpenStack cloud, ready to handle critical workloads. With Red Hat's leadership in the OpenStack community, customers can deploy an enterprise-supported, production-ready OpenStack cloud with an extended software lifecycle, a broad certified partner ecosystem, and global technical support services, all backed by the industry's most trusted open source technology partner.

Red Hat customers can access the beta version of Red Hat Enterprise Linux OpenStack Platform 4.0 as part of their subscription at access.redhat.com.

OpenShift by Red Hat on OpenStack

Additionally, Red Hat today announced that [OpenShift by Red Hat](#), Red Hat's award-winning Platform-as-a-Service (PaaS) offering is now available for user deployment on OpenStack via OpenStack Heat. With today's announcement, OpenShift users can use the native OpenStack technology to quickly run and scale their own PaaS in production.

The marriage of these two rapidly growing, open source cloud technologies brings a credible cloud solution to enterprises that provides elasticity and efficiency for IT operations along with self-service and automation for IT development teams. Providing an OpenShift PaaS on top of an OpenStack infrastructure delivers the productivity and velocity IT development teams need to quickly push new applications and services to market.

OpenStack-M

Red Hat also today announced a preview of [OpenStack-M](#), an open source OpenStack deployment and management solution built using existing OpenStack components which will be integrated into future versions of Red Hat Enterprise Linux OpenStack Platform. OpenStack-M is being developed by the open source community and is rooted in [Tuskar](#), a Red Hat-led project for managing OpenStack

deployments, and has been officially merged into the OpenStack Deployment program (code named OpenStack on OpenStack, or [TripleO](#)). OpenStack-M aims to provide a more comprehensive OpenStack management solution than proprietary offerings, many of which only address deployment, health and monitoring separately or can only be accessed as proprietary add-ons.

Red Hat will be demonstrating OpenStack-M at the OpenStack Summit in Hong Kong Nov. 5-8, 2013, and plans to make OpenStack-M available in future releases of Red Hat Enterprise OpenStack Platform.

Supporting Quote

Paul Cormier, president, Products and Technologies, Red Hat

"Red Hat believes OpenStack is a core element of the datacenter fabric of the future. We're all in on OpenStack, and as a result, we're optimizing our portfolio across IaaS, PaaS, cloud management and storage to enable enterprise adoption. By driving technology innovation and addressing enterprise requirements for OpenStack, including stability, a broad partner ecosystem, a predictable lifecycle, and world-class support, Red Hat is making OpenStack and the open hybrid cloud a reality in the enterprise."

Webcast

Red Hat's Bryan Che, general manager, Cloud, and Mike Werner, senior director, Global Ecosystems, will host a webcast to discuss today's announcements at 11 a.m. ET. Following remarks, press and analysts are invited to participate in a question and answer session.

To join the webcast or listen to a replay, visit: <https://vts.inxpo.com/Launch/QReg.htm?ShowKey=17243>.

Additional Resources

More about [Red Hat Enterprise Linux OpenStack Platform](#)

More about [OpenShift by Red Hat](#)

[More about OpenStack-M](#)

More about [Red Hat Storage for OpenStack](#)

More about [Red Hat's open hybrid cloud vision](#)

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Forward-Looking Statements

Certain statements contained in this press release may constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements provide current expectations of future events based on certain assumptions and include any statement that does not directly relate to any historical or current fact. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: risks related to delays or reductions in information technology spending; the effects of industry consolidation; the ability of the Company to compete effectively; the integration of acquisitions and the ability to market successfully acquired technologies and products; uncertainty and adverse results in litigation and related settlements; the inability to adequately protect Company intellectual property and the potential for infringement or breach of license claims of or relating to third party intellectual property; the ability to deliver and stimulate demand for new products and technological innovations on a timely basis; risks related to data and information security vulnerabilities; ineffective management of, and control over, the Company's growth and international operations; fluctuations in exchange rates; and changes in and a dependence on key personnel, as well as other factors contained in our most recent Quarterly Report on Form 10-Q (copies of which may be accessed through the Securities and Exchange Commission's website at <http://www.sec.gov>), including those found therein under the captions "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations". In addition to these factors, actual future performance, outcomes, and results may differ materially because of more general factors including (without limitation) general industry and market conditions and growth rates, economic and political conditions, governmental and public policy changes and the impact of natural disasters such as earthquakes and floods. The forward-looking statements included in this press release represent the Company's views as of the date of this press release and these views could change. However, while the Company may elect to update these forward-looking statements at some point in the future, the Company specifically disclaims any obligation to do so. These forward-looking statements should not be relied upon as representing the Company's views as of any date subsequent to the date of this press release.

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