

Red Hat Delivers Cloud Foundation for Digital Transformation with Latest Version of OpenStack Platform

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Red Hat OpenStack Platform 13 simplifies updates with Fast Forward capabilities; containerizes all OpenStack services and paves the way for Red Hat OpenShift on OpenStack

VANCOUVER, British Columbia – OpenStack Summit Vancouver 2018--(BUSINESS WIRE)-- Red Hat, Inc. (NYSE: RHT), the world's leading provider of open source solutions, today announced Red Hat OpenStack Platform 13, the latest version of Red Hat's massively scalable and agile cloud [Infrastructure-as-a-Service \(IaaS\)](#) solution. Based on the OpenStack "Queens" release, Red Hat OpenStack Platform 13 provides a powerful foundation for enterprises using [hybrid cloud](#) for [digital transformation](#) strategies, helps to minimize the growing pains often involved with new technology adoption with its new Fast Forward upgrades feature, and is designed to also improve integration across the emerging technology stack.

The fast-paced, competitive digital landscape facing many organizations often requires new methods of business differentiation where success can involve transformed IT service delivery. A key component of modern IT is to provide faster access to IT resources while delivering new capabilities and innovations to developers. Red Hat OpenStack Platform is designed to accelerate the delivery of applications and services by empowering organizations to innovate with greater confidence through an extensible, production-ready private cloud. With Red Hat OpenStack Platform 13, enterprises can evolve their IT infrastructure into a more agile and efficient environment -- one ready to capture opportunities presented by the emerging digital marketplace.

Accelerate operational efficiency through enhanced agility

Red Hat OpenStack Platform 13 enables users to build an on-premises cloud architecture that provides resource elasticity, scalability, and increased efficiency. To help enterprises achieve this goal, Red Hat OpenStack Platform 13 features greater cross-portfolio integration with Red Hat's extensive portfolio of hybrid cloud technologies. This includes:

Red Hat CloudForms to better ease day-to-day management tasks for [hybrid cloud infrastructure](#).

Red Hat CephStorage for massively scalable, integrated storage, which enables organizations to more quickly provision hundreds of virtual machines from a single snapshot and build a fully-supported storage solution.

Red Hat OpenShift Container Platform helps Red Hat OpenStack Platform 13 serve as an extensible platform for [cloud-native workloads](#), providing a single architecture that brings the power of [Linux containers](#) on [Kubernetes](#) orchestration to scalable [OpenStack infrastructure](#).

Simplified release updates with Fast Forward upgrades

To help further simplify the upgrade process between [long-life releases](#), Red Hat OpenStack 13 introduces [Fast Forward upgrades](#), a feature that enables IT teams to more consistently deliver the latest OpenStack innovations to their environments while minimizing operational risk. Delivered through Red Hat OpenStack Platform director, Fast Forward upgrades give customers the option to stay on a faster upgrade path and receive new features from the upstream community every six months, or remain on a supported release for a longer period of time. Starting with this latest release, customers who are currently on Red Hat OpenStack Platform 10 can upgrade to Red Hat OpenStack Platform 13 with fewer reboots and without the need for additional hardware.

Innovation at the speed of business demand

Through open, community-powered innovation delivered at enterprise-scale and backed by Red Hat's expertise and support, Red Hat OpenStack Platform 13 is designed to deliver a cloud platform that pairs innovation and agility with the enterprise demand for stability, availability, and increased security. Red Hat OpenStack Platform 13 enables organizations to deliver innovations faster and more reliably through:

Containerization of OpenStack services: Red Hat OpenStack Platform 12 introduced the containerization of OpenStack services, helping to increase flexibility for upgrades, rollback, and service management while reducing cloud management complexity for operators. Red Hat OpenStack Platform 13 builds upon this capability by containerizing all OpenStack services, including networking and storage, for the first time in a Red Hat OpenStack offering.

Upgraded OpenStack security capabilities: Through the integration of security related projects such as OpenStack Barbican, Red Hat OpenStack Platform 13 provides tenant level lifecycle management of secrets, such as passwords, security certificates and keys. With the introduction of Barbican, encryption related use cases are now available, such as Cinder encrypted volume support, Glance image signing and Swift object encryption. Red Hat OpenStack Platform 13 also features increased TLS coverage for internal communication flows for services such as VNC, OpenDaylight and Redis. The introduction of these features can enable customers to better comply with security standards such as FedRAMP, SecNumCloud, and other industry specific risk management frameworks.

Empowering customers and partner across industries

Red Hat OpenStack Platform, combined with Red Hat's open source leadership, can provide a consistent experience across services, support, consumption model and lifecycle management, helping to empower IT teams across industries. Hundreds of customers rely on Red Hat OpenStack Platform to power their hybrid and [private clouds](#) for a variety of deployments, including [BBVA](#); [Cambridge University](#); [FICO](#); [Massachusetts Open Cloud](#); [Turkcell](#); [Oak Ridge National Laboratory](#); [Paddy Power Betfair](#); [UKCloud](#); [Cathay Pacific](#); and [IAG](#).

Red Hat OpenStack Platform is also backed by a robust ecosystem of partners for enterprises businesses including [Dell EMC](#), Intel, [Lenovo](#), NetApp, and [Rackspace](#), and also enjoys broad support in the telecommunications industry, with [Cisco](#), [Ericsson](#), Huawei, [NEC](#), and [Nokia](#), among others. Building on this ecosystem, Red Hat OpenStack Platform 13 is designed to deliver innovations that communications services providers can use to deploy, run, and develop critical applications and end-user services, including:

Integration and support for OpenDaylight, a modular open source platform for customizing and automating a software-defined network, through Red Hat OpenStack Platform director. This integration is designed to help customers benefit from an adaptable networking solution based on open software.

Real-time KVM compute role, powered by the Red Hat Enterprise Linux Real Time Kernel for environments where ultra-low latency is a requirement.

Availability

Red Hat OpenStack Platform 13 is scheduled to be available in June via the Red Hat Customer Portal and as a component of both Red Hat Cloud Infrastructure and Red Hat Cloud Suite.

Supporting Quotes

Radhesh Balakrishnan, general manager, OpenStack, Red Hat

"An important component of any organization's digital transformation journey should be a modern, flexible, and open infrastructure that can support the next-generation of applications and cloud services. Red Hat OpenStack Platform 13 is engineered to simplify the deployment and management of such an infrastructure, helping to power the digital transformation of organizations across multiple verticals including telecommunications, financial services, the public sector, and media and technology. With Fast Forward upgrades, Red Hat is helping to simplify the OpenStack upgrade process for IT operators that want to balance stability and the pace of innovation."

Al Sadowski, research vice president, 451 Research

"Success in today's digital economy hinges upon a new approach to IT, one that focuses on faster delivery of services and tighter integration with heterogeneous cloud technologies. Red Hat OpenStack Platform provides organizations with the tools needed to deliver and scale the latest innovations with a consistent operational experience."

Dror Goldenberg, vice president, Software Architecture, Mellanox Technologies

"A high-performance, low server footprint and tightly integrated networking infrastructure layer is critical to achieve infrastructure efficiency of hybrid and private clouds. As verified by Red Hat labs testing, Mellanox's open source Accelerated Switching and Packet Processing (ASAP²) OVS offload technology achieved 55 million packets per second throughput and freed up precious CPU cores for running more cloud-native applications and services. We are very pleased to make this technology available in Red Hat OpenStack Platform 13 along with Mellanox ConnectX-5 network adapters."

Additional Resources

Learn more about [Red Hat OpenStack Platform](#)

Learn more about [Fast Forward upgrades](#)

Learn more about [Red Hat Enterprise Linux](#)

Learn more about [Red Hat CloudForms](#)

Learn more about [Red Hat Ceph Storage](#)

Learn more about [Red Hat OpenShift Container Platform](#)

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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 the ability of the Company to compete effectively; the ability to deliver and stimulate demand for new products and technological innovations on a timely basis; delays or reductions in information technology spending; the integration of acquisitions and the ability to market successfully acquired technologies and products; risks related to errors or defects in our offerings and third-party products upon which our offerings depend; risks related to the security of our offerings and other data security vulnerabilities; fluctuations in exchange rates; the effects of industry consolidation; 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; changes in and a dependence on key personnel; the ability to meet financial and operational challenges encountered in our international operations; and ineffective management of, and control over, the Company's growth and international operations, as well as other factors contained in our most recent Annual Report on Form 10-K (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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