

Red Hat Announces General Availability of Red Hat Enterprise Linux OpenStack Platform 7

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New director eases deployment and day-to-day operations management

RALEIGH, N.C.--(BUSINESS WIRE)-- Red Hat, Inc. (NYSE: RHT), the world's leading provider of open source solutions, today announced the general availability of Red Hat Enterprise Linux OpenStack Platform 7, featuring a new deployment and management tool that simplifies installation, eases day-to-day management tasks, and establishes the underpinnings for orchestrated live system updates and upgrades for subsequent releases.

Based on the [OpenStack community "Kilo"](#) release, Red Hat Enterprise Linux OpenStack Platform is a co-engineered solution that starts with the proven and trusted foundation of Red Hat Enterprise Linux and integrates with Red Hat's OpenStack technology to form a production-ready cloud platform. This combination addresses the critical dependencies OpenStack has on Linux and provides a highly scalable, fault-tolerant platform for building private or public clouds. Originally launched in 2013, this new release is Red Hat's fifth iteration of Red Hat Enterprise Linux OpenStack Platform, which has been successfully deployed worldwide by customers in key verticals including public sector, financial, telecommunications, and education. Version 7 includes several new features aimed at accelerating the adoption of OpenStack including:

Simplified deployment and management - Cloud operators now have a simpler means of day-to-day operation management and resource provisioning, using the new Red Hat Enterprise Linux OpenStack Platform director. It offers a simplified and automated cloud installation tool with system-wide health checking for a proper deployment. Additionally it eases daily operational management and resource provisioning for cloud operators, including an automated "ready-state" provisioning of bare-metal resources to simplify the deployment and repurposing of hardware resources on an on-demand basis. Based on the community-driven OpenStack management project TripleO, the new director combines multiple technologies to offer a single powerful tool which also establishes a new framework that can be used for live orchestrated OpenStack and director upgrades for version 7 and subsequent releases.

Traditional workloads requiring high availability on OpenStack - Making it easier to migrate traditional, business-critical applications that require high availability to OpenStack, Red Hat Enterprise Linux OpenStack Platform 7 introduces compute host node high availability through integrated, automated monitoring and failover services from Red Hat Enterprise Linux. This new capability monitors host nodes and includes the ability to automatically evacuate virtual machines from hosts, restarting workloads on alternate, available hosts.

Greater security control - Telco customers now have greater granularity and control over network traffic ports at the virtual machine level. This allows customers to maintain a tightened security level over the greater OpenStack cloud, while allowing virtualized network function (VNF) traffic through each virtual machine, as necessary. Version 7 introduces this via the Neutron modular layer 2 (ML2) and Open vSwitch (OVS) port security mechanisms included in the community Kilo release.

Network flexibility - New Neutron networking features offer greater flexibility and improved network redundancy. Network operators can benefit from several IPv6 enhancements, including the ability to support direct network routing between tenants and the external gateway. In addition, version 7 expands the high availability for Neutron routers and improves the monitoring and reporting of the router to help network operators maintain uptime.

Incremental Backup - Storage administrators can now benefit from faster block storage backups and reduced capacity needs with support for snapshot-based backups. With added support for NFS and POSIX file system types, this significantly reduces the amount of storage and time required, by backing up only the incremental changes since the last full state backup.

Trusted Integration and Ecosystem

Red Hat Enterprise Linux OpenStack Platform is backed by one of the largest OpenStack ecosystems, with more than 350 certified partners for OpenStack compute, storage, networking, and independent software vendor (ISV) applications and services. This partner network offers solutions that complement the broad support and compatibility provided in the Red Hat Enterprise Linux ecosystem. Red Hat Enterprise Linux OpenStack Platform 7 introduces expanded integration with certified partners, including support for NetApp Data ONTAP, 7-mode, and E-Series, including initial setup and configuration via the new Red Hat Enterprise Linux OpenStack Platform director. In addition, Red Hat Enterprise Linux OpenStack Platform 7 brings integrated setup and installation of Red Hat Ceph Storage 1.3 server and clients. Red Hat Ceph Storage Server subscription entitlements are sold separately from Red Hat Enterprise Linux OpenStack Platform subscriptions.

Supporting Quotes

Radhesh Balakrishnan, general manager, OpenStack, Red Hat

"We have raised the standard for production-ready OpenStack with Red Hat Enterprise Linux OpenStack Platform 7. With increased adoption of OpenStack, we are excited about addressing the need for reduced time to solution with a truly open approach that enables automated deployment and lifecycle management of the infrastructure."

Jim Ganthier, vice president and general manager of Engineered Solutions and Cloud, Dell

"Enterprise customers today are consistently faced with escalating requirements and less resources. Customers are looking for ways to reallocate the time and costs spent on cloud deployment and operations today to strategic, business outcome producing projects tomorrow. The release of Red Hat Enterprise Linux OpenStack Platform 7 is the next step in offering enterprise-grade OpenStack cloud

solutions that are both easier and faster to deploy and manage. At Dell, we are pleased to continue our work with Red Hat on co-engineered reference architectures, and look forward to jointly offering an even simpler, faster and more cost effective path to an enterprise-ready OpenStack cloud."

Jim McHugh, vice president of products and solutions marketing for Cisco Unified Computing System™ and Data Center, Cisco

"It's been nearly a year since the announcement of Unified Computing System Integrated Infrastructure for Red Hat Enterprise Linux OpenStack Platform (UCSO). Customers are dramatically simplifying and accelerating their OpenStack deployments using Cisco UCS® and UCS Service Profiles and experiencing time-to-delivery of new cloud services and applications much faster. As a testament to our strong collaboration in engineering and development, the new functionality in Red Hat Enterprise Linux OpenStack Platform 7 announced today will also be immediately available on Cisco UCS Integrated Infrastructure."

Mauri Whalen, vice president, Software and Services Group and director of Core System Development, Intel Corporation

"The enterprise data center is being redefined by increasing customer demands and advances in technology, coupled with the growth of cloud-based solutions and the move to a software defined infrastructure (SDI). Working together with Red Hat on the "On-Ramp to Enterprise OpenStack" program has helped Intel build a solid base of co-engineered, OpenStack deployments for broad adoption by enterprises."

Additional Resources

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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 effects of industry consolidation; 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; 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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