

RED HAT OPENSTACK PLATFORM

DATASHEET

IN BRIEF

Red Hat OpenStack Platform is a production-ready foundation to help you create, deploy, scale, and manage a secure and reliable public or private OpenStack cloud.

READY FOR OPENSTACK?

As a community project, OpenStack is being developed and changed quickly. Red Hat removes risk by providing long-term stability through an enterprise software life cycle, and provides world-class, production-level support from a trusted technology partner.

QUICKLY BUILD THE APPS YOUR BUSINESS NEEDS WITH A MODERN I.T. INFRASTRUCTURE

Consider Red Hat Cloud Suite.
Learn more at [redhat.com/
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OpenStack, visit openstack.org

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PRODUCT OVERVIEW

Red Hat® OpenStack® Platform combines the power of Red Hat Enterprise Linux® with Red Hat OpenStack technology to deliver a scalable and secure foundation to build and manage an open private or public cloud.

OpenStack depends on Linux as the operating environment for its services, access to hardware resources, and third-party integration with existing or new systems. OpenStack also depends on Linux for system-wide performance, scalability, and security and as an operating system for the guest applications running in these virtual environments.

If your organization is considering an OpenStack deployment, it matters which OpenStack distribution and which Linux offering you choose. This is why Red Hat—recognizing the critical interdependencies between the two—co-engineered them together with closely aligned product engineering teams. Paired with Red Hat CloudForms' open, hybrid management for workloads and infrastructure as well as Red Hat Ceph Storage's highly redundant, software-defined storage, Red Hat OpenStack Platform is an integrated, optimized, and managed foundation for production-ready clouds.

FEATURES AND BENEFITS

By choosing Red Hat OpenStack Platform, you benefit from the fast pace of open source project innovation while maintaining a stable platform for production deployment. With Red Hat OpenStack Platform, you can concentrate on delivering the cloud services your customers demand, while Red Hat maintains the core OpenStack code and the underlying Linux platform on which it depends.

DEPLOY AND MANAGE OPENSTACK WITH CONFIDENCE

Reliable deployments with live upgrades	The director tool in Red Hat OpenStack Platform checks systems throughout the installation process to provide consistent, automated cloud deployment. It features live orchestrated system upgrades and updates, ensuring long-term, production-ready stability with little downtime.
Integrated orchestration	Red Hat OpenStack Platform director provides system-wide orchestration of OpenStack resources, including bare-metal provisioning.
Unlimited Red Hat Enterprise Linux uses	Red Hat Enterprise Linux can operate on host nodes and unlimited virtualized workloads on OpenStack. ¹
Included workload and infrastructure management	Red Hat CloudForms can manage OpenStack workloads and infrastructure. It provides resource management and data collection over OpenStack clouds, such as resource monitoring and reporting, compliance assurance, chargeback and showback, service cataloging, user management, and heat template management.

¹ Red Hat OpenStack Platform is available for purchase with or without unlimited Red Hat Enterprise Linux guests. Both versions include Red Hat Enterprise Linux for OpenStack host controller nodes.

OPENSTACK TECHNOLOGY LEADERSHIP FROM RED HAT

Red Hat has been a top code contributor to the OpenStack project since 2011. Learn more at stackalytics.com/?release=pke&metric=commits.

BUILD YOUR OPENSTACK CLOUD ON THE INDUSTRY-LEADING HYPERVISOR FROM RED HAT

The Red Hat Virtualization Hypervisor, based on KVM technology, holds top scores in the industry-standard SPECvirt hypervisor benchmark for performance, density, and scalability. Learn more at spec.org/virt_sc2013/results and spec.org/osg/virt_sc2010/results

DEPLOY AND MANAGE OPENSTACK WITH CONFIDENCE

Reliable storage	Every company or organization that purchases Red Hat OpenStack Platform receives one subscription of 64TB of Red Hat Ceph Storage. This helps customers get started with highly scalable and redundant object, block, and file storage. ²
Hardened for enterprise	An extensive patching, bug-fixing, testing, and certification process ensures broad compatibility and performance with upstream community releases.
Highly available infrastructure	Red Hat OpenStack Platform maintains high availability and policy-driven measures, including infrastructure failure recognition, automated host node evacuation, and downed node fencing, and automatically restarts workloads on remaining available hosts.
Enterprise software life cycle	Red Hat provides stable branch releases of OpenStack and Linux that are supported for an enterprise production life cycle—beyond the six-month release cycle of the OpenStack community. Customers can choose to standardize for up to five years on certain releases or stay on top of the latest features by updating every six months to one year.
Expansive ecosystem	Red Hat has built an expansive certified OpenStack partner ecosystem for Red Hat OpenStack Platform. It includes thousands of certified servers and third-party software, plus an OpenStack-specific certification program with partners in the compute, storage, networking, independent software vendor (ISV) software, and service fields.
Technology leadership	Red Hat is a top code contributor to many OpenStack projects and a long-time leader in the OpenStack, Ceph storage, and broader Linux communities—making Red Hat an ideal supporter of full-scale OpenStack deployments.
Security	Security-Enhanced Linux (SELinux) military-grade security technologies prevent intrusions and protect data when running in public or private OpenStack clouds.
Performance	The Red Hat Virtualization Hypervisor provides superior performance for OpenStack workloads. Based on Kernel-based Virtual Machine (KVM), the hypervisor holds record-breaking performance scores on the SPECvirt_sc2013 benchmark. ³

² One subscription of 64TB of Red Hat Ceph Storage per company or organization regardless of number of Red Hat OpenStack Platform subscriptions purchased. Additional capacity of Red Hat Ceph storage sold separately.

³ All comparisons are based on a benchmark addressing performance evaluation of datacenter servers used in virtualized server consolidation at www.spec.org/virt_sc2013/ as of March 10, 2016. SPEC® and the benchmark name SPECvirt_sc® are registered trademarks of the Standard Performance Evaluation Corporation (SPEC).

RED HAT TRAINING & CERTIFICATION

Get your IT team trained on OpenStack and certified with our lab-intensive courses and performance-based exams. Learn more at redhat.com/training.

PROFESSIONAL CONSULTING SERVICES

Red Hat offers a portfolio of consulting offerings for cloud technology solutions, including:

- Consulting discovery sessions
- Consulting assessments
- Consulting smart start

Learn more at redhat.com/consulting

DEPLOY AND MANAGE OPENSTACK WITH CONFIDENCE

Integrated stack

Red Hat OpenStack Platform helps relieve deployment and management burdens by integrating with a portfolio of Red Hat cloud infrastructure products.

- Deploy Red Hat Enterprise Linux as host nodes and virtual machines to gain performance, security, and operational advantages.
- Use Red Hat CloudForms as a unified infrastructure and to manage virtual workloads on Red Hat OpenStack Platform.⁴
- Set up Red Hat Ceph Storage for highly redundant, scale-out block, object, and image storage.
- Use Red Hat Virtualization for traditional scale-up virtualization alongside new OpenStack scale-out workloads.
- Deploy Red Hat OpenShift Container Platform to manage containers on top of an OpenStack private cloud.
- Access Red Hat Satellite for application and operating system entitlement, including images and host package management displayed by the director in Red Hat OpenStack Platform.

With Red Hat OpenStack Platform, your organization can access the most widely deployed enterprise Linux operating system, use Red Hat CloudForms for infrastructure and workload management, and take advantage of one complimentary subscription of 64TB of Red Hat Ceph Storage to start building an optimized and integrated OpenStack cloud. Find more information at redhat.com/openstack-platform.

⁴ Included Red Hat CloudForms is limited to management over Red Hat OpenStack infrastructure and virtual workloads only. Ability to manage additional providers (e.g. VMware) is sold separately.

TECHNICAL SPECIFICATIONS

For the latest Red Hat OpenStack Platform technical specifications, visit <https://access.redhat.com/products/red-hat-openstack-platform/>.



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.



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