

RED HAT OPENSTACK

DATASHEET

AT A GLANCE

- A massively scalable and open cloud Infrastructure-as-a-Service (IaaS) platform
- Designed for both private and public cloud infrastructures
- Combines the fastest growing open source cloud infrastructure project with the trusted stability and enterprise readiness of Red Hat
- Extends the lifecycle of OpenStack software and provides long-term commitment with trusted enterprise support
- Designed for Red Hat Enterprise Linux
- Leverages the performance and security of Red Hat Enterprise Linux

OVERVIEW

OpenStack is the largest and fastest-growing open source cloud infrastructure project that provides a massively scalable framework for your organization to build an automated, private Infrastructure-as-a-Service (laaS) cloud, based on standard x86 hardware and existing virtualization hypervisor technologies. It enables businesses to deploy an on-premise cloud infrastructure that functions similar to an external cloud service provider.

Built from community-driven innovation, OpenStack uses industry-common APIs and open standards to allow for the:

- Integration of existing applications and workloads
- · Prevention of vendor lock-in
- Cross-vendor technology compatibility
- Support of a hybrid deployment model to ensure expansion across a private or public cloud

Purposely designed as a modular system, OpenStack helps users maintain maximum flexibility and scalability to meet a variety of application and user demands. The project is comprised of several fundamental sub-projects that form a unified framework, including:

- Nova The compute module that automates and manages pools of compute resources
- Glance The image management module that provides virtual machine image and template discover, registration, and retrieval services
- Swift A fully distributed and highly available object storage module designed for the storage of static data, capable of scaling to petabytes
- Quantum The virtual networking controller designed as a pluggable back-end system to allow for a variety of networking technologies and accommodate massive scalability and flexibility
- Cinder A block-level storage manager for performance-sensitive data that manages the creation, attaching, and detaching of block storage
- **Horizon** A graphical and highly extensible, web-based dashboard that provides an interface for users and administrators to access and manage cloud resources
- Keystone An identity management authentication service that interfaces with standard directory services, manages multi-tenancy, establishes trust relationships, and secures all OpenStack transactions

THE EVOLVING CLOUD

As businesses consider the deployment benefits of OpenStack, it is imperative to consider the continually evolving nature of such a large community project. As a Linux-based laaS platform, OpenStack touches several essential areas of your datacenter. This results in the need for a proficient enterprise



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In December 2012, IDC named Red Hat as an industry leader for its support after surveying more than 1,000 IT professionals to determine their current levels of satisfaction for software support services overall and for specific features of software support services agreements. IDC ranked Red Hat support in the top 3 among 12 of the largest software support services in the industry.

IDC

IDC Customer Satisfaction Study, 2012: Top Performers in Enterprise Software Support Services December 2012 #238773

In May 2012, the Red Hat Customer Portal was recognized by the Association of Support Professionals (ASP) as a top support website in its 15th annual "Ten Best Web Support Sites" competition. support network to ensure a stable and optimal deployment that meets your unique business needs. In addition, the community OpenStack release cycle is every six months, which may not provide your business a stable foundation or suitable lifecycle.

A successful OpenStack deployment requires alignment with an organization that has deep open source roots and can support your IT team with proper architecture and implementation design, as well as engineering professional services. That organization must be capable of building unique and customized code on top of OpenStack, and delivering proper technical training and education to your IT staff.

COMMUNITY INVENTED. RED HAT HARDENED.

Red Hat OpenStack offers the innovation of the OpenStack community project, while also providing the security, stability, and enterprise readiness of a platform built on Red Hat Enterprise Linux. With a long, proven track record in the open source community, Red Hat is uniquely positioned to leverage our community leadership to represent your needs in the OpenStack community. Red Hat's simplified subscription model allows your organization to fully benefit from OpenStack, while gaining maximum cost effectiveness from a proven and trusted partner.

Red Hat OpenStack enables your organization to move from traditional workloads to cloud-enabled workloads on your terms and on your timelines. Red Hat frees your organization from proprietary lock-in and moves you to open cloud technologies while maintaining your existing infrastructure investments.

Unlike other OpenStack distributions, Red Hat OpenStack provides a certified ecosystem of hardware, software, and services to meet your infrastructure demands, delivering a software lifecycle that extends the OpenStack community lifecycle. Red Hat's award-winning support ensures long-term commitment through patches and feature backports on both the OpenStack modules and their underlying Linux dependencies.

In summary, Red Hat provides the security, reliability, and flexibility that your organization needs so you can take advantage of the fast pace of OpenStack development without risking the stability and supportability of your production environment.

Learn more about Red Hat OpenStack at redhat.com/openstack.





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ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 70 offices spanning the globe, empowering its customers' businesses.

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