

RED HAT STORAGE AND RED HAT OPENSTACK

BROCHURE

AT A GLANCE

- A massively scalable and open cloud Infrastructure-as-a-service (IaaS) platform
- Designed for both private and public cloud infrastructures
- Open, software-defined storage that delivers data to compute jobs inside a virtual machine with local disk access performance
- Unified enterprise storage that is resilient, highly available, and supports multiple file and object protocols
- Combines the fastest growing open source cloud infrastructure project with the trusted stability and enterprise-readiness of Red Hat
- Designed to use the performance and security of Red Hat® Enterprise Linux®

THE CHALLENGES

Data is growing at unprecedented rates and needs to be efficiently stored and delivered to enterprise applications through multiple protocols while maintaining standard performance expectations. Meanwhile, IT budgets are shrinking because of public cloud infrastructures, which can reduce or eliminate an IT team's control within an enterprise.

In addition, enterprise security requirements are still enforced despite the growing variety of client computing devices outside of IT teams' control. This results in rising operating costs to support mixed ecosystems and significant challenges for organizations. Altogether, this demands a new approach: an open hybrid cloud approach with the infrastructure to support it.

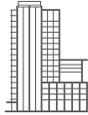
THE SOLUTION

The key in solving these challenges is a cloud infrastructure that lowers acquisition and operating costs by providing a flexible, open source alternative that supports enterprise open hybrid clouds. That's OpenStack.

OpenStack is the largest and fastest-growing open source cloud infrastructure project. It provides a massively scalable framework for your organization to build an automated, private Infrastructure-as-a-Service (IaaS) cloud, based on standard x86 hardware. OpenStack enables your business to deploy an on-premise cloud infrastructure, delivering similar functionality to an external cloud service provider while maintaining control of your infrastructure.

Built from community-driven innovation and supported by technology industry leaders, OpenStack uses industry-standard APIs and open public cloud infrastructure standards to integrate existing applications and workloads while preventing vendor lock-in. And OpenStack is designed for the future support of a hybrid cloud deployment model to ensure expansion across private or public clouds.

OpenStack has various components—including the Nova compute engine—that enable organizations to provision and manage large networks of virtual machines (VMs). To realize OpenStack's full potential, the data must be delivered to the Nova compute infrastructure as required. Red Hat® Storage delivers a truly open, software-defined storage solution that allows access to data inside the Nova compute VM, in whatever native format needed, without compromising performance. This scale-out, unified approach to cloud storage can be deployed in physical and virtual infrastructures to maximize the benefits of OpenStack.



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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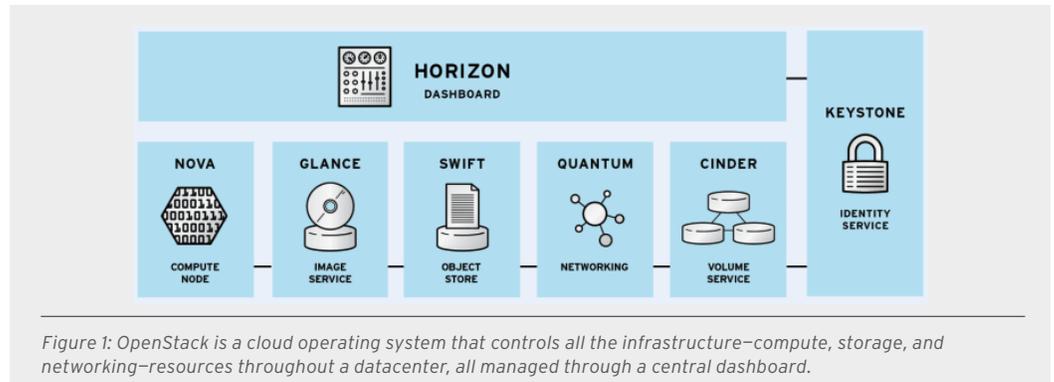


Figure 1: OpenStack is a cloud operating system that controls all the infrastructure—compute, storage, and networking—resources throughout a datacenter, all managed through a central dashboard.

FEATURES AND BENEFITS

As a Linux-based IaaS platform, OpenStack touches several essential areas of your datacenter, including compute and storage. As such, a proficient enterprise support network is needed to ensure a stable and optimal deployment. Moreover, the community OpenStack release cycle is every six months, which may not provide your business a stable foundation or suitable life cycle.

Successful OpenStack deployments require alignment with an organization that has deep open source roots, a code leader that can support your IT team with proper architecture and implementation design, with engineering professional services. That organization must be capable of supporting unique OpenStack business demands, on your terms, while enabling your IT staff to focus on your core business. When deploying OpenStack production deployments, align yourself with Red Hat OpenStack to maximize the value of your investment.

COMMUNITY INVENTED. RED HAT HARDENED.

Red Hat OpenStack and Red Hat Storage offer the innovation of the OpenStack and GlusterFS community projects, while also providing the security, stability, and enterprise-readiness of a platform built on Red Hat® Enterprise Linux®. With a proven track record in the open source community, Red Hat is uniquely positioned to represent your needs in the OpenStack and Gluster communities.

Unlike other OpenStack distributions, Red Hat OpenStack provides a certified ecosystem of hardware, software, and services partners to support your infrastructure demands, integrate with your existing infrastructure, and deliver a software life cycle that extends the OpenStack community life cycle. Red Hat's award-winning support ensures long-term commitment through patches and feature backports on OpenStack modules, Red Hat Storage, and their underlying Linux dependencies.

Red Hat Storage defines storage in software from the ground up. This enables it to run on the same physical servers with Nova compute, providing exceptional performance associated with local disk access without network latency. The storage is resilient and highly available so it can be accessed through multiple enterprise file and object protocols. This results in lower operating costs, less hardware to manage, and the simplified deployment and management of open, software-defined storage.

In summary, Red Hat OpenStack and Red Hat Storage provide a cloud infrastructure built to support open hybrid cloud and to enable enterprise IT organizations to meet the challenges of today while lowering costs and increasing flexibility.

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

Learn more about Red Hat Storage at redhat.com/liberate.