RED HAT®
STORAGE

BRINGING THE BENEFITS OF RED HAT STORAGE SERVER TO YOUR ENTERPRISE

"With Red Hat Storage, we were able to dramatically avoid expenditures with a low-cost software solution, while keeping our current infrastructure in place. It enabled us to scale easily and affordably."

James Vanee, IT director for the Institute for Biotechnology and Life Science Technologies, Cornell University.

INTRODUCTION

As a server administrator, you understand the value that Red Hat® Enterprise Linux® creates by delivering an efficient, scalable, and reliable platform for your company's applications. But did you know that Red Hat can also help your company meet its growing storage needs? In fact, Red Hat Storage Server turns ordinary x86 servers and virtualized resources into a powerful distributed storage environment, able to deliver extreme scalability to meet the demands of today's information explosion.

In this guide, you'll learn the basics of Red Hat Storage Server, Red Hat's award-winning, scale-out storage software platform. We'll help you understand where it fits and why customers back it.

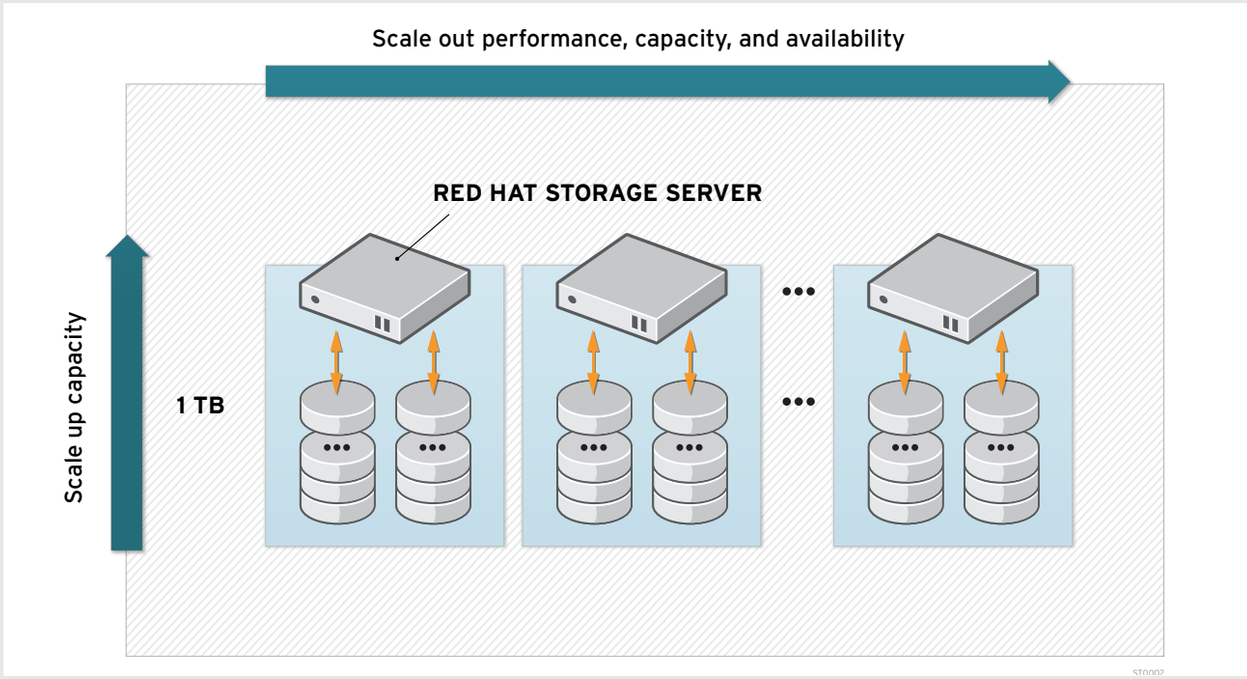
We'll also show you how your company can easily get started with it.

By introducing Red Hat Storage Server to your environment, you'll save money, better serve customers and users, and rid your company from the stranglehold of proprietary storage vendors.

TECHNOLOGY

Red Hat Storage Server is an open, software-based storage system that provides a scale-out storage platform offering both object and file-based access to the same data. Red Hat Storage Server is designed to run either on industry-standard x86 servers combined with off-the-shelf direct attached storage and networking, or as a virtual machine. Red Hat Storage Server is capable of combining both physical and virtualized storage resources into a single logical pool.

Built on the Red Hat Enterprise Linux operating system and the proven GlusterFS distributed file system, Red Hat Storage Server gives you the freedom of choice in meeting your storage needs, allowing you to deploy cost-effective, scalable, and reliable storage without being locked into proprietary solutions, or compromising on scalability, performance, or availability.



Use Case: Data Center / Private Cloud Red Hat Storage Server for On-premise

FEATURES AND CAPABILITIES

Red Hat Storage Server delivers a powerful set of storage features in a single software appliance:

Global namespace. Red Hat Storage Server aggregates your servers' storage resources into a unified pool, simplifying management of the storage environment.

Elasticity. Storage can be dynamically added to, or removed from, your storage pool, with no interruption to data availability.

Extensibility. Red Hat Storage Server features an extensible architecture and the ability to create and run applications directly on the storage node, allowing you to customize the storage system to your business requirements . This empowers you to deploy innovative storage functionality at the speed of your business, as opposed to the speed of hardware vendor engineering cycles.

Petabyte scalability. Red Hat Storage Server's fully distributed architecture and advanced file management algorithms allow you to efficiently support multi-petabyte repositories.

High throughput. Red Hat Storage Server delivers fast file access by eliminating the centralized metadata server and evenly distributing files.

Compatibility with industry standards. Red Hat Storage Server delivers native POSIX compatibility and support for CIFS, NFS, and HTTP.

Built-in object access. With Red Hat Storage Server, you no longer need separate storage systems for applications and file access. Your files can be accessed as objects via the open SWIFT APIs, allowing easy and secure file sharing through mobile devices, across the Internet, and with cloud applications.

Reliability. Local and long-distance replication provides a foundation for business continuity and disaster recovery, and ensures high levels of data protection, availability, and resiliency, even in the event of hardware failure.

WHY RED HAT STORAGE SERVER

Red Hat Storage Server helps your company manage the explosion of enterprise data while capitalizing on the dramatic cost benefits of standardized x86 hardware and virtualized resources. Whether deployed on-premise or in a private, public, or hybrid cloud environment, Red Hat Storage Server simplifies access to information and brings the power of community-driven innovation to your enterprise.

Red Hat Storage Server can be a key tool in helping your company achieve business goals such as:

Reduced costs. Deploying storage on open commodity systems rather than proprietary NAS and object storage systems, allows enterprises to dramatically reduce capital costs while maintaining high levels of performance and availability.

Simplified operations. Red Hat Storage Server can be deployed and scaled out in minutes and is managed via a user-friendly and intuitive graphical user interface, greatly reducing operational complexity and the time to deploy storage.

Enhanced agility. By forming a highly elastic storage pool that is compatible with existing applications, your business can innovate and respond quickly without the burden of establishing a stand-alone storage environment for each new initiative. Existing hardware may be repurposed on the fly to rapidly increase storage capacity.

Increased reliability. Because software ensures the availability of the storage system and your data, the failure of any individual server does not compromise the system's overall integrity or availability.

Boosted user satisfaction. By consistently delivering high levels of performance and helping to eliminate data silos, Red Hat Storage Server helps your enterprise drive higher end-user satisfaction levels.

KEY RED HAT STORAGE SERVER USE CASES

Red Hat Storage Server is versatile software, optimized for a variety of storage-intensive enterprise workloads, including general-purpose file sharing, rich media content delivery, high-performance computing, nearline storage, and archival.

Because Red Hat Storage Server is software-based, runs on standard x86 servers, and is elastically scalable, it is an ideal storage environment for new development projects that need to start small or ramp up quickly. And because it's based on proven technology, trusted by companies like Cornell University, Slacker Radio, Brightcove, Pattern Energy, and Intelitek for mission-critical storage workloads, you can be sure that your applications will never outgrow its capabilities.

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RED HAT STORAGE SERVER IN YOUR ENTERPRISE

How do you introduce Red Hat Storage Server to your enterprise? Fortunately, getting started with Red Hat Storage Server is as easy as using it, especially for users with Red Hat Enterprise Linux experience.

Many great resources are available to get you and your team up to speed with Red Hat Storage Server:

- Learn more on the product website: **www.redhat.com/products/storage-server**.
- Available as a free trial, deploy a live Red Hat Storage Server environment in just a few minutes. Request a trial here: **www.redhat.com/liberate**.
- Contact your Red Hat sales person at storage-sales@redhat.com.

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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