RED HAT STORAGE

DATA SHEET

SCALE-OUT NETWORK-ATTACHED-STORAGE (NAS) SOFTWARE FOR PHYSICAL, VIRTUAL, AND CLOUD ENVIRONMENTS

RED HAT STORAGE SERVER PROVIDES SCALE-OUT NAS SOFTWARE FOR EASY MANAGEMENT OF UNSTRUCTURED DATA

FEATURES

Single global namespace
Aggregates disk and memory resources into a single trusted storage pool.

Unified file and object storage
Store and access data as an object or a file instantly.

Replication
Supports synchronous n-way replication within a data center and asynchronous replication for disaster recovery.

Elastic hashing algorithm
No metadata server layer eliminates performance bottlenecks and single points of failure.

Industry standard client support
- NFS, CIFS for file based access
- OpenStack Swift for object access
- GlusterFS native client for highly parallelized access

DESCRIPTION

Red Hat Storage Server is a modern, unified, scale-out NAS software solution for today's on-premise, virtual and cloud environments that enables global access to data and eliminates storage silos. Red Hat Storage Server is designed to work seamlessly with industry standard x86 commodity servers.

Built on the industry leading Red Hat Enterprise Linux operating system, it provides freedom of choice to customers by allowing them to deploy cost-effective and highly available storage without compromising on either scale or performance. Red Hat Storage Server can easily be deployed on-premise, in public cloud infrastructures or hybrid cloud environments. It is optimized for storage intensive enterprise workloads including high performance computing (HPC), nearline archival, and rich media content delivery.

Red Hat Storage Server is used for storing various kinds of unstructured data in both file and object format. Including:

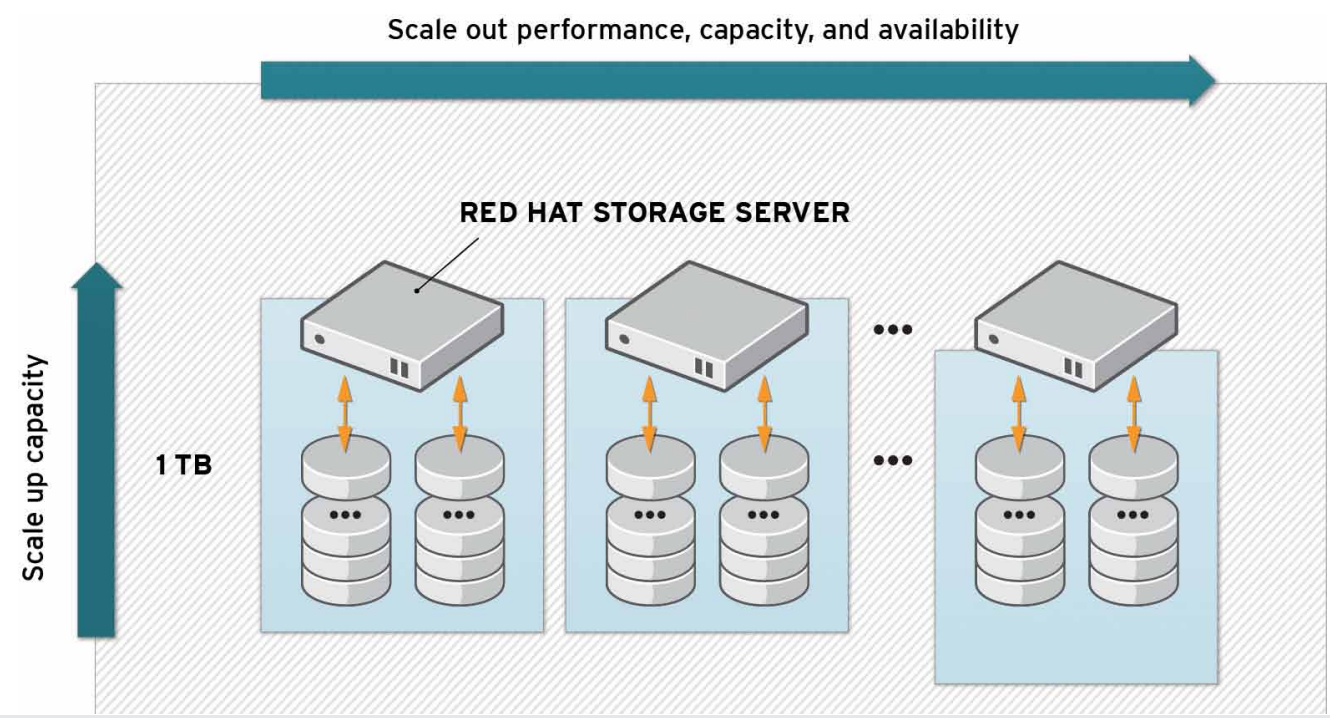
- Files and folder - Documents, photos, videos, and images
- Big data - Log files, RFID data, and other machine generated data

BENEFITS TO THE ENTERPRISE

Today enterprises are faced with disparate silos of storage that may be geographically dispersed among many datacenters around the globe. Red Hat Storage Server enables those enterprises to eliminate the silos by providing a unified way to provision and manage storage regardless of whether it is on-premise, virtualized, or in a public cloud infrastructure.

RED HAT® STORAGE SERVER FOR ON-PREMISE

HIGH PERFORMANCE SCALE-OUT OPEN NAS SOFTWARE SOLUTION THAT DEPLOYS ON INDUSTRY STANDARD X86 HARDWARE IN MINUTES



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

Red Hat Storage Server for On-premise is a simple, scalable, open source alternative to costly proprietary storage

Scalability and flexibility without disruption
Red Hat Storage Server is designed for unlimited scalability. Storage can be added or removed while data continues to be available.

Easy to deploy
An ISO image installs on a server or supported hypervisors, ie: Red Hat Enterprise Virtualization and VMware vSphere/ESXi for quick deployment.

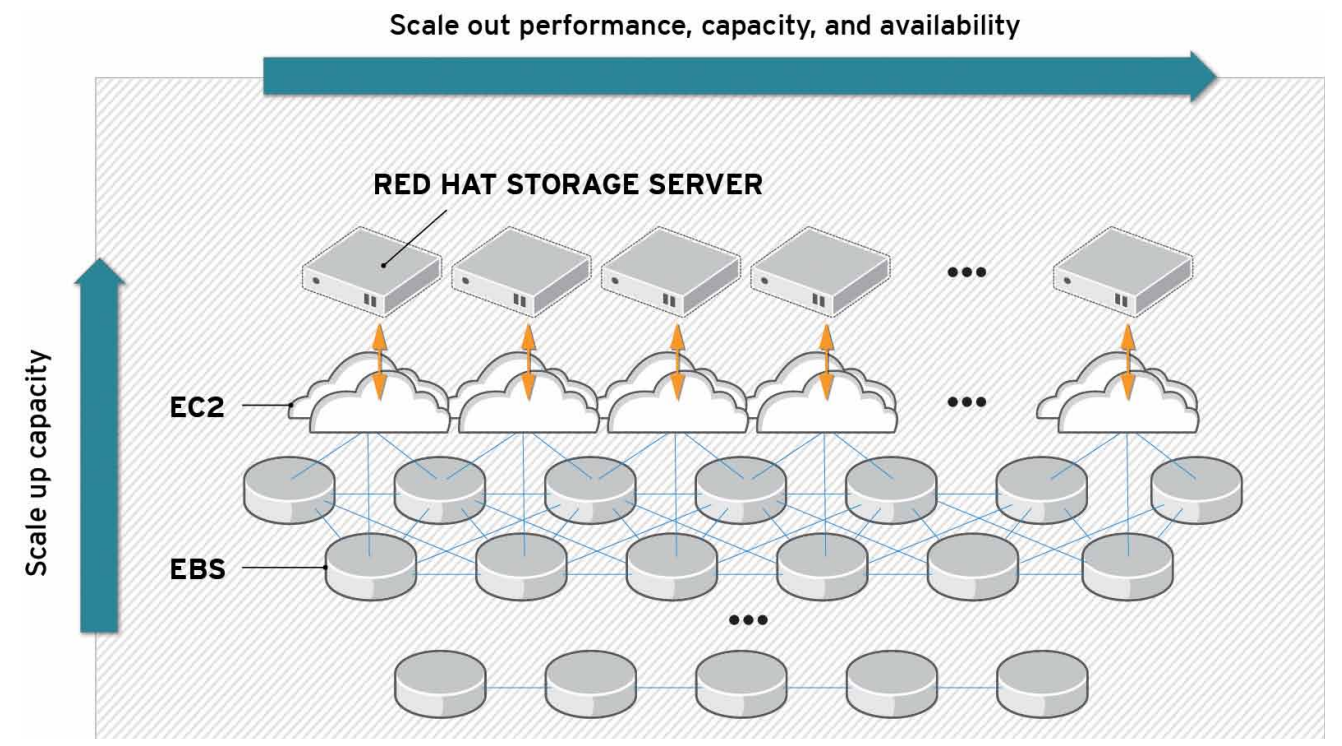
High performance at a lower cost
Red Hat Storage Server uses an elastic hashing algorithm to locate data in the storage pool (by calculating a hash on the filename and file path), removing a common source of I/O bottlenecks and vulnerability to failure. This, coupled with its large-capacity scalability, gives users better performance at a lower cost.

BENEFITS TO THE ENTERPRISE

Now enterprises can eliminate their dependence on costly, difficult to scale monolithic storage arrays. With Red Hat Storage Server enterprises can easily deploy commodity hardware in minutes for scalable, high-performance storage in their datacenters, or in hybrid cloud environments in concert with Red Hat Storage Server for the Public Cloud solution.

RED HAT® STORAGE SERVER FOR PUBLIC CLOUD

A HIGHLY AVAILABLE, SCALABLE NAS SOLUTION FOR PUBLIC CLOUD STORAGE



Use Case: Scale-out NAS for Amazon Web Services
Red Hat Storage Server for Public Cloud

Red Hat Storage Server for Public Cloud brings a highly available, high performance NAS solution to Amazon Web Services (AWS)

Single global namespace
AWS users can aggregate both Amazon Elastic Block Storage (EBS) and Amazon Elastic Compute Cloud (EC2) instances within AWS environments, creating a highly available, virtualized storage pool.

Superior Amazon EC2 experience
Red Hat Storage Server for Public Cloud eliminates capacity limitations of a single device and levels out performance variations across the pool, so Amazon EC2 customers experience superior availability and performance.

High availability
Red Hat Storage Server for Public Cloud provides synchronous n-way replication and asynchronous geo-replication. Data is synchronously mirrored across availability zones and asynchronously across regions within AWS.

No application re-writes
Migrate existing POSIX applications to the cloud without making modifications.

BENEFITS TO THE ENTERPRISE

As enterprises struggle with both the explosive growth of unstructured data and the accelerating virtualization of the computing environment, Red Hat Storage Server for Public Cloud provides a solution ideally suited for cloud storage. It simplifies the task of managing unstructured file data whether users have a few terabytes of storage or multiple petabytes without acquiring new hardware.

ABOUT RED HAT

Red Hat was founded in 1993 and is headquartered in Raleigh, NC. Today, with more than 70 offices around the world, Red Hat is the largest publicly traded technology company fully committed to open source. That commitment has paid off over time, for us and our customers, proving the value of open source software and establishing a viable business model built around the open source way.

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