SOFTWARE IS EATING THE DATA CENTER

Build and run a scalable, reliable, and efficient infrastructure for all your business-critical workloads

Quobyte

Software Drives the Evolution of Traditional Enterprise IT

The success of Internet companies like Amazon and Google is firmly rooted in their superior IT infrastructure that they have developed in little more than a decade. The innovation started with the insight that traditional enterprise IT could not meet their demands. Its application silos and single-purpose appliances would be too limiting and quickly become unmanageable. Rethinking infrastructure from the ground up, they came up with a design that uses latest distributed systems algorithms to turn standard server hardware into a general purpose compute platform.
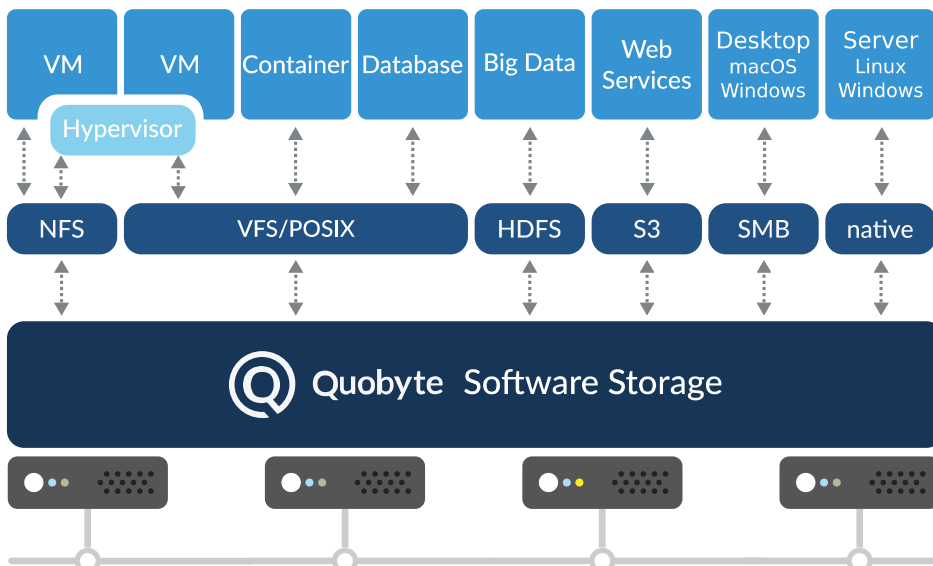
The pioneering work of the engineering teams at Google and Amazon has not only shown that it is possible to build a top-notch infrastructure using new software technologies, it has rather demonstrated that a software-defined data center yields unprecedented levels of scalability, cost-efficiency and agility.

Fortunately, these improvements are applicable beyond the specific workloads of Internet giants and can benefit businesses of all sizes. Drawing on years of original research, Quobyte has advanced such software-based technologies to make a seamless integration into the enterprise IT stack possible. Now, everyone can build a general-purpose infrastructure from commodity hardware that offers one-click agility, linear scalability and lights-out operations on a par with the public cloud providers.
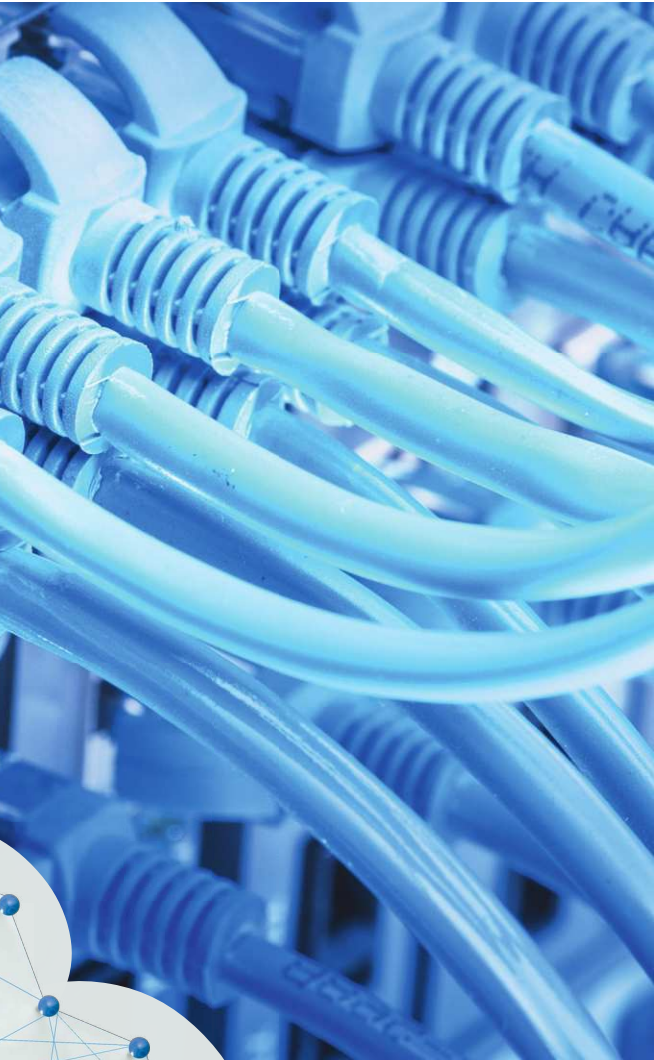
Quobyte
Horizontal Storage Infrastructure

Quobyte – Unified Storage

VM	VM	Container	Database	Big Data	Web Services	Desktop macOS Windows	Server Linux Windows
Hypervisor							
NFS	VFS/POSIX			HDFS	S3	SMB	native

Quobyte Software Storage

Horizontal Storage Infrastructure
Quobyte runs on your servers and provides all your applications and users with storage. Data can be accessed through all interfaces, also in parallel.

Quobyte – The Data Center File System

Quobyte offers a new kind of storage system: the software turns standard server hardware into a data center file system. Designed as a foundation for a general-purpose storage infrastructure, Quobyte is the first software-defined storage system that delivers excellent performance on all workloads. With latest distributed systems technology at its core, Quobyte guarantees 24/7 lights-out operations at any scale.

Product Overview

High Performance

Get the most out of your hardware: 8x or higher IOPS than comparable software storage systems with a throughput only limited by hardware capabilities.

Linear Scalability

Scale out from four nodes to entire data centers and beyond in no time and handle petabytes of data with minimal effort Deploy scalable storage that is accessible through all interfaces and for workloads that require both high IOPS and high throughput. Install one horizontal storage infrastructure with Quobyte and say goodbye to storage silos.

Lights-Out Operations

Quobyte is self-healing and self-managing, shielding you against hardware failures, operator errors, network partiTions, and disk corruptions. Quobyte enables 24/7 lights-out operations, allows updates with zero downtime, and facilitates the lowest TCO in its class.

One-Click Agility

Quobyte helps to quickly adapt to changing business needs: Reconfigure your entire storage with one click to isolate users or workloads, partition your system, automatically tier data, manage multitenancy or scale the system up and down. Quobyte enables DevOps best practice and self-service for your storage.

Complete

An open and full-stack storage system for file, block and object storage, complete with hardware inventory management, monitoring, automation, a graphical console, and an API. No need for external tools or complicated HA setups.

Try Quobyte

Ask for a trial version and get your next storage infrastructure up and running in under an hour: **sales@quobyte.com**

Quobyte Datasheet

Interfaces	Native Client: Proxies: Object:	Linux, Mac, Windows, HDFS NFSv3, NFSv4, SMB S3
OpenStack	Drivers: Integration:	Manila, Cinder, S3 Keystone, OpenStack domains
Container Infrastructures	Shared file storage for stateful containers; deployable in containers	
Multitenancy	Built-in (also integrates with OpenStack domains) Unified ACLs across all interfaces and operating systems	
Data Placement	Dynamic and policy-defined down to the file level; enables performance isolation, system partitioning, tiering, and intelligent placement by locality	
High Availability	Built-in, with transparent failover	
Data Protection	Split-brain safe replication or erasure coding, configurable at the file level	
Checksums	End-to-end CRC32 at the block level	
Geo-Replication	Asynchronous, per-volume mirroring	
Small-File Performance	High throughput for uncompressed media streams (DPX) and many other small-file workloads	
Block Size	512 bytes to 2MB, configurable for each file	
Quotas	Based on capacity/files/file systems; per user, group, file system or tenant	
Live Updates	No service interruption with rolling updates	
Parallel IO	Striping, direct communication from client to many storage servers	
Network	Any IP network, multiple networks and storage backbone support	
Thin Provisioning	Yes, all volumes thinly provisioned	
Limits (per installation)	Servers: Capacity: File Systems: Files:	Min. 4, up to 10,000s Unlimited, max. 32PB per file Unlimited Up to 100,000,000 per file system
Management	WebUI, JSON-RPC API, and command line tools	
Health Manager	Continuous supervision of cluster health and performance. Runs proactive maintenance tasks	
Platforms	OS: Frameworks:	Ubuntu, Debian, CentOS/RHEL, Fedora, openSUSE/SLES Kubernetes, Docker, Mesos, Rancher

About Quobyte®

Quobyte combines recent distributed systems research with proven concepts for large-scale storage systems. With its scalability, reliability and automation, Quobyte's software storage system builds the foundation for next-generation warehouse-scale data centers. The company was founded in 2013 and draws on a decade of research with the open-source distributed fi le system XtreemFS.

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