

QUOBYTE – COMPLETE SOFTWARE STORAGE FOR OPENSTACK



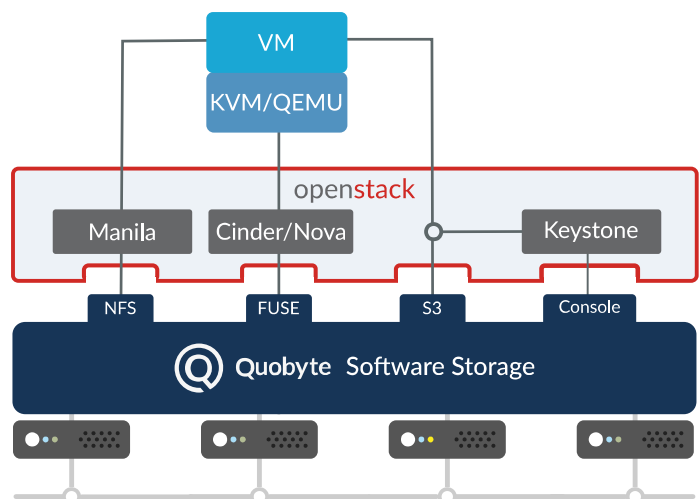
Key Benefits

- Seamlessly integrate storage with the OpenStack ecosystem and avoid further complexities
- Cover all your storage needs with a single storage system: block storage for VMs and databases, shared file storage, and S3-compatible object storage
- Get more out of your hardware with a performance and utilization better than that of other software storage systems
- Gain a production-ready, enterprise-grade storage system that allows for lights-out operations and scale your system in a way that matches your needs
- Accelerate your core business by shifting concern away from hardware woes and limitations and avoid a costly vendor lock-in

Storage for Enterprise Clouds

OpenStack is today's most widely used cloud infrastructure technology. It allows enterprises to build and manage private and public clouds to ensure reliable, scalable, and flexible services. In order to truly succeed with OpenStack, however, a solid storage foundation is essential.

Quobyte delivers that foundation. It is software storage that turns your off-the-shelf servers into a high-performance, reliable, and highly automated data center file system. Quobyte is perfectly aligned with OpenStack's core features: the use of standard hardware, a complete set of services, and powerful management and automation tools.



Quobyte and OpenStack at a glance





OpenStack and Quobyte – A Perfect Fit

Quobyte is a new kind of software-defined storage, offering high performance and a simplified management of large-scale infrastructures. It is the first software-only scale-out storage that provides complete fault tolerance and is split-brain safe.

Meticulously fitted into the OpenStack ecosystem, Quobyte allows for excellent block IO performance to run virtual machine storage and integrates tightly with Cinder, Nova, and Glance.

It ships with an S3-compatible object storage interface and delivers shared file storage to cover today's enterprise needs. The NFS interface is fully integrated with Manila and allows for self-service provisioning of the shared file storage. A proper isolation of tenants and user management – including S3 user credentials – are further must-have features in today's enterprise IT. For this purpose, Quobyte's management console and API can be hooked up to Keystone to round out a complete and enterprise-grade infrastructure.

Features and Capabilities

Hyperconverged

Quobyte storage services can co-exist with VMs on the same host, enabling simultaneous scaling of compute, storage capacity, throughput, and IOPS.

Unified Storage

Quobyte is a real file system, can serve any application out of the box, and comes with interfaces for block storage (VMs and databases), NFS, Hadoop/Spark, and S3. In addition, Quobyte provides container-native storage for Kubernetes (with a plugin and an Operator) and Docker.

Versatile

Our policy engine handles heterogeneous hardware (HDD, SSD, and NVMe) with ease.

Excellent Performance

Quobyte delivers a better performance than comparable software storage systems and maximizes hardware utilization.

Ready for Production

Quobyte is self-managing, elastic, scalable, has checksumming, no single point of failure, and is split-brain safe.

Efficient

No journaling or caching devices necessary, no storage network required, and conservative use of RAM.

Embedded into the OpenStack Ecosystem

Quobyte is part of all OpenStack distributions since the Kilo release.



Drivers for Cinder, Nova, and Manila. Quobyte management and S3 storage integrate directly with Keystone.

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