

# Virtuozzo Storage

## Drive Hyperconvergence and Reduce Costs

Virtuozzo Storage enables you to build fault-tolerant, multi-machine storage clusters using nothing more than off-the-shelf hardware – a huge help in driving costs down. Available as an integrated part of the Virtuozzo Platform or as a solution to support storage for today's most popular containers, Virtuozzo Storage works with any workload or type of data. This includes support for block, file, object, and container storage – including persistent storage for Docker. Virtuozzo Storage delivers a highly flexible, distributed software-defined storage solution that is scalable to your needs, and comes with built-in replication to ensure the safety of your data.

## Key Benefits



**High performance:** Faster than Ceph and other competitors.



**Massively scalable:** Store petabytes of data.



**Extremely cost-efficient:** Works with off-the-shelf hardware, features erasure coding.



**Web-based UI simplifies everything:** Stay in control with an easy-to-use management interface.



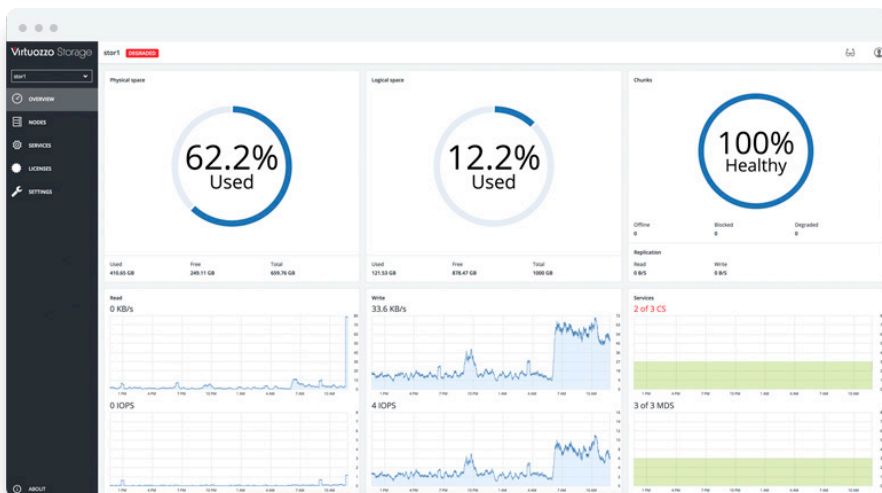
**Data Encryption:** Protect entire cluster or specific tiers.



**Geo Replication:** Replicate S3 objects to a remote cluster.

## Key Features

- Block, file, S3 object, and container storage in a single solution.
- Supports erasure coding and 2/3 replicas.
- SSD caching and journaling, data tiering and auto re-balancing.
- Scalable up to multiple petabytes in a single cluster.
- Hot-Pluggable: Increase/decrease capacity or replace a drive without downtime.
- Storage tiers organize storage space and keep different categories of data on different disks.
- Easily manage storage through a web-based user interface with smart automation.



## FOR MORE INFORMATION

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# A Single Solution to Manage All Your Storage Needs

## Virtualization

Run Virtuozzo, Hyper-V, VMware, or KVM workloads

- Optimized for maximum performance with random reads and writes.
- Best performance for Virtuozzo containers and VMs with FUSE optimizations.
- Highly-available iSCSI targets.
- Highly-available NFS storage.
- SSD caching to burst existing I/O performance by an order of magnitude.

## Object Storage

Build your own public or private Amazon S3-compatible storage cloud

- Unlimited scalability to billions of objects.
- Build an S3 storage-as-a-service offering.

## Behind the Technology Virtuozzo Storage vs Ceph

This graph depicts a Windows operating system running a Virtuozzo Hypervisor versus CentOS 7 KVM. The vConsolidate Score reflects the performance of all workloads running on the host. Virtuozzo outperforms CentOS 7 KVM.

## Container Storage

Build a persistent volume storage backend for all modern container orchestration frameworks

- Side by side deployment with Docker.
- Kubernetes support.
- Docker Swarm support.
- S3 Object storage for modern containerized applications.

## Cold Data

Lower OPEX and CAPEX for backups and archiving

- Low overhead with erasure coding.
- Efficient hardware utilization.
- Flexible redundancy schemas.
- Automatic self-healing, check summing and scrubbing.

