

Virtuozzo Storage

“ViUX has successfully relied upon Virtuozzo for 10 years as our virtualization system.... The cloud storage feature of Virtuozzo has been invaluable in allowing ViUX to provide high-availability cloud VPS containers and hypervisors to increase ARPU.” — J.T. Smith, owner at ViUX

High-Performance, Fault-Tolerant, Low-Cost Storage

With Virtuozzo Storage, local disk space on server nodes can be turned into low cost, high performance, cost-efficient cloud storage. Its highly available, distributed storage system has built-in replication and disaster recovery. And most importantly, you can build fault-tolerant, multi-machine storage clusters using nothing more than your servers’ pre-existing, locally attached hard drives—with no additional hardware costs.

- **Fault-tolerant by design:** Set the level of redundancy required. It automatically detects failures and performs auto-recovery. The storage cluster adjusts to provide continuous data access for clients.
- **High performance:** multi-machine storage clusters meet or exceed the performance of locally attached disks
- **Low cost:** local disk space turns into a resilient cloud storage pool

Optimized for the Cloud

Virtuozzo Storage was designed from scratch to work with virtualized environments. We decouple computation from storage, enabling VMs and containers to instantly migrate to another physical server whenever the original server becomes unavailable. Storage for VMs and containers is no longer limited to locally attached disks—the server can access the entire cluster distributed across multiple physical machines.

- Store and run Virtuozzo VMs and containers optimized for the cloud
- Create block, iSCSI, NFS, and S3/Object storage all in one solution
- Eliminate server downtime due to hardware failures
- Deliver highly available cloud servers
- Enable zero downtime, live server migration, and non-disruptive replication

Key Features

Efficient

Support replication and erasure coding.

Scalable

High performance scalable to petabytes.

Flexible

Allows coexistence and migration between servers running container or hypervisor technology.

High Availability

End users won't experience service loss if the server suffers a hardware failure. The system automatically switches to redundant data copies and quickly restarts the service on another physical machine.

Hot-Pluggable

Expands when adding nodes and devices.

Data Protection

Provides user data check-summing and verification. Performs background data verification scrubbing.

SSD Caching

Bursts I/O performance, increasing hardware utilization and density.

Rebalance

Rebalances new storage servers across the total cluster.

Web Management UI

Easily manage storage through a web-based user interface.

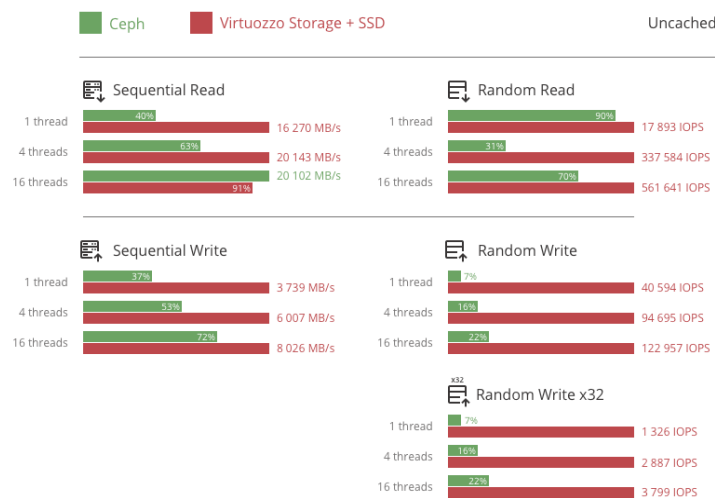
Unbeatable Cost Savings

By leveraging your existing disk space instead of purchasing expensive, new hardware, we deliver the lowest cost cloud storage solution. With Virtuozzo Storage, you can reduce or eliminate the need for special-purpose storage devices and the capital expenditures and operating expenses that come with them. Virtuozzo Storage boosts capacity even while lowering costs by:

- Spreading storage across all nodes in the cluster, uniformly using disk bandwidth
- Supporting SSD caching to burst existing I/O performance by an order of magnitude and to increase hardware use and density

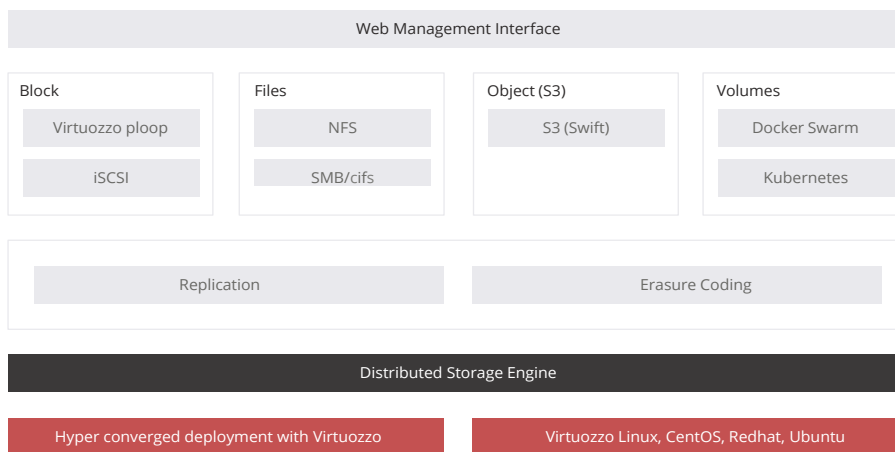
Behind the Technology

Virtuozzo 7 Storage vs Ceph



This graph compares sequential read, sequential write, random read, and random write operations between Virtuozzo 7 Storage and open source storage solution Ceph.

Four Ways to Use Virtuozzo Storage



Infrastructure Requirements:

- Separate, dedicated 1 or 10 GigE storage network recommended
- SATA / SAS / SSD drives on storage nodes
- 1 GB RAM per each 100 TB in cluster for metadata servers

FOR MORE INFORMATION

www.virtuozzo.com/vz7
sales@virtuozzo.com
 +1 206-539-0730