

# Storage for Application Containers

Virtuozzo provides container-friendly storage for cloud native applications and production-ready environments.

Virtuozzo Storage for Application Containers gives businesses and service providers the power to deliver persistent storage for applications that leverage the latest container platforms, including Docker and Kubernetes.

## Business Challenge

The application container revolution is empowering businesses and developers with faster, more efficient ways of developing and running cloud native applications. However, in order to take full advantage of the performance and business agility benefits of containers for production workloads, persistent data storage is a requirement.

## Why Virtuozzo for Application Container Storage

Virtuozzo Storage provides flexible, easy-to-scale, highly available software-defined storage that's proven for containers—and features certified and native integration to platforms like Docker and Kubernetes. IT directors, infrastructure managers, and developers can get a cloud native hyperconverged solution that combines compute and secure storage to support modern day applications, while eliminating the need for dedicated storage hardware.

## Persistent Storage for Production Workloads

Virtuozzo Storage makes it possible to manage persistent data in cloud native environments. IT managers and developers can manage data volumes and containers for any application—without being tied to a single server.

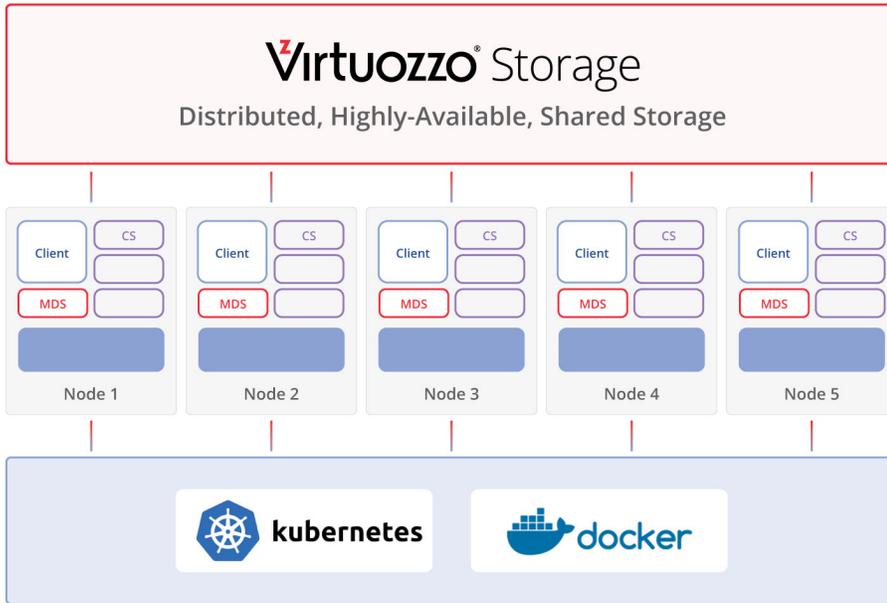
Virtuozzo Storage integrates with Docker Swarm and Kubernetes, and runs on commodity hardware. It's the ideal software-defined storage solution for managing application containers with persistent data.

## Key Features

- **Hot-pluggable:** Expands easily when adding nodes and devices.
- **Data protection:** Provides user data check-summing and verification, and performs background data verification to ensure readable, correct data.
- **SSD caching and journaling:** Bursts I/O performance.
- **Failure tolerant:** Set the level of redundancy required, automatically detect failures and perform auto-recovery with continuous data access for clients during recovery.
- **Integration with Kubernetes storage management model:** Cluster connection through native K8s secrets and snapshots management via native API aggregation (available with kubectl CLI tool without storage specific tools).
- **Docker Swarm integration:** Certified Docker volume plug-in enables Docker Swarm nodes to also be software-defined storage nodes.
- **Easy cluster deployment and scaling implemented as a set of simple actions:** Extend cluster capacity without a reboot or redeployment when a storage extension is required.

## FOR MORE INFORMATION

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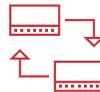
Storage for K8s features a simple UI for volume management that extends and simplifies volume-related operations, while still preserving compatibility with the K8s native API.

## Key Benefits



### High Availability

Eliminate downtime with automated failover to redundant data copies.



### Data Mobility

Move containers between hosts and provide transparent access to persistent data to any host.



### Scalability

Scale to hundreds of nodes with petabytes of capacity with a high performance SDS.



### Low TCO

Uses commodity and/or existing hardware to lower TCO and reduce CAPEX.



### Easy-to-Scale Performance

Easily scale up and scale out both performance and capacity.



### Multi-Purpose Storage

Enables persistent volumes, iSCSI, and object storage—all in one solution.

To learn more or get a demo of Virtuozzo Storage for Application Containers, contact us at [info@virtuozzo.com](mailto:info@virtuozzo.com).