QuantaStor SDS v4
Advancing SAN/NAS & Object Storage with Grid Technology

QuantaStor SDS enables organizations to manage their storage with ease. Whether it’s a small single site configuration to large multi-site deployments, QuantaStor’s storage grid technology and web-based management interface makes storage management easy for IT generalists and experts alike.

Unified File, Block and Object
The QuantaStor SDS platform provides file, block, and object storage technology in a single platform, providing companies with a fast, cost-efficient and robust solution for replacing traditional SAN/NAS appliances.

Ideal for a Broad Spectrum of Use Cases
QuantaStor SDS addresses key storage use cases including server virtualization, OLTP, big data, cloud computing, and high-performance applications. With support for all major SAN/NAS protocols, high-availability, DR/remote-replication, encryption, and more, QuantaStor delivers a complete array of enterprise features and capabilities using standard server hardware from HPE, Dell, Cisco, SuperMicro, or Lenovo.

All-Flash and Hybrid SSD/HDD Storage Solutions
High-performance SAN/NAS appliances can be configured as all-flash or hybrid configurations which use a combination of platter disk with SSD to accelerate read and write performance. All-flash configurations are ideal for demanding HPC, database/OLTP, VDI, and virtualization workloads while hybrid configurations provide a more cost-effective balance of capacity and performance.

Grid Technology
QuantaStor’s built-in storage grid technology enables one to combine up to 64 appliances and 64 PB into a storage management grid. Storage grids can reside in a single data center or be dispersed across multiple locations and data centers. With no additional software to install, QuantaStor storage grids are managed via the appliance web-based management interface.

End-to-End Encryption and Security
QuantaStor delivers end-to-end security coverage, enabling multi-layer data protection on-the-wire and for data-at-rest which is ideal for enterprise and cloud storage deployments.

High-Availability and Disaster Recovery
Server and desktop virtualization environments require highly-available block storage that can deliver consistent performance with minimal downtime. QuantaStor SDS appliances are designed with high-availability and remote-replication/DR features needed for mission-critical desktop and server virtualization solutions.

S3/SWIFT Compatible Object Storage Support
In configurations with three or more appliances, QuantaStor may be configured to deliver S3 compatible object storage. Object storage is ideal for applications including large-scale media archive, next-generation applications using S3/SWIFT protocols, content delivery networks, and HPC environments requiring hyperscale storage.

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QuantaStor SDS Common Configurations

All-Flash High-Performance SAN/NAS Solutions for Virtualization & OLTP

All-flash configurations are designed to deliver maximum IOPS and throughput numbers for mission critical workloads and applications including server and desktop virtualization and high load OLTP/database use cases.

Hybrid High-Performance SAN/NAS Solutions for Virtualization & OLTP

Using a combination of HDD with SSD for read and write performance acceleration, QuantaStor hybrid SAN/NAS configurations are ideal for a broad spectrum of general application workloads and use cases including OLTP and server virtualization.

S3/SWIFT Object Storage for Biotech, Energy, Media & CDN Workloads

Using a combination of HDD with SSD for improved read and write performance acceleration, QuantaStor scale-out object storage configurations are ideal for a broad spectrum of object storage workloads requiring hyperscale to 64PB using the S3 and SWIFT REST based protocols. Scale-out object storage configurations can start with as few as three appliances with sixty-four appliances enabling organizations to easily scale on demand with zero downtime.