

QuantaStor 5 Overview

OSNEXUS leverages open-source technologies to build an enterprise-class SDS platform that delivers performance, availability, scalability, security, and efficiency. QuantaStor, the company's flagship storage platform, is based on grid technology for easy scalability, supports unified storage (block, file, and object), and consolidates different workload types onto a single, centrally-managed storage platform to meet performance, availability, and efficiency requirements.

Grid Technology

QuantaStor's built-in technology combines up to 64 appliances with up to 100PB into a single, easy-to-manage storage grid. Storage grids can span locations and datacenters and can be easily accessed by logging into the web interface on any individual appliance within the grid. Automation is simplified with QuantaStor's REST API and scriptable CLI that allows IT administrators to orchestrate operations and provisioning regardless of the location of the datacenter.

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. With NIST 800-53, 800-171, HIPAA, and CJIS compliance, QuantaStor SDS provides the advanced security features required by governments and regulated industries.

QuantaStor 5 Features

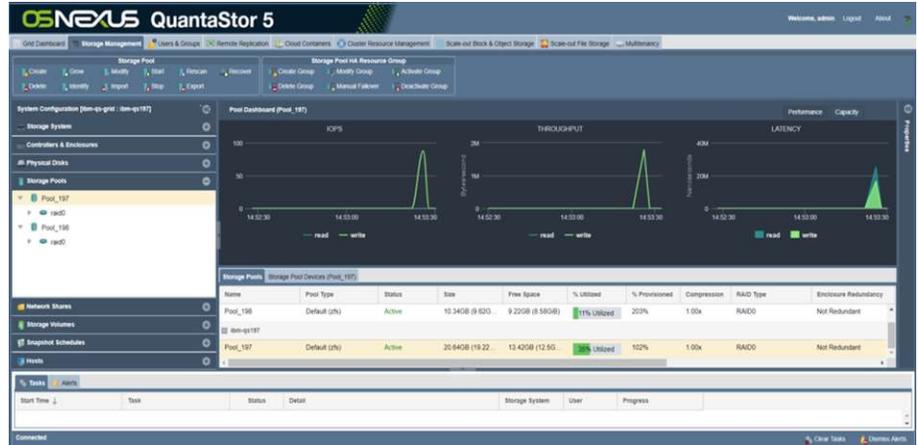
Configuration and Security Analytics - One-click analysis of network, security, and performance settings across all QuantaStor appliances in a given storage grid, making it easy to validate a storage configuration before production deployment.

Ansible Automation - With Ansible integration support, users can quickly and easily set up playbooks to automatically provision file, block, and object storage within QuantaStor storage grids for use cases including software development, testing, continuous integration, or analytics.

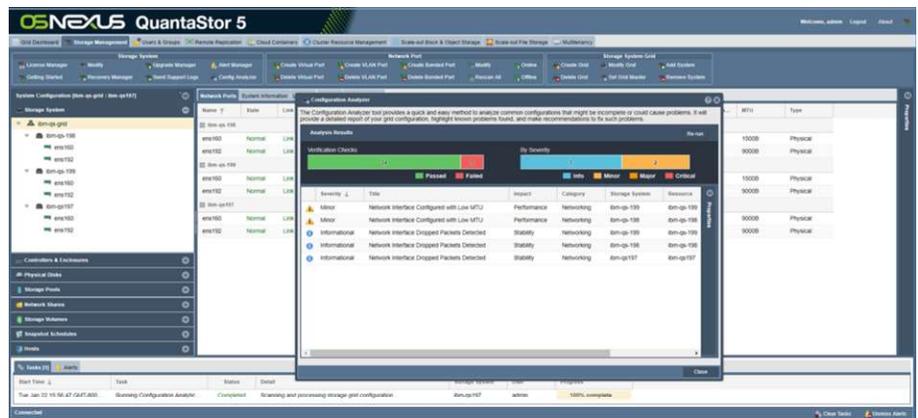
Advanced Server Monitoring - QuantaStor monitors the server internals (temperature, fans, power supplies, CPU, firmware, etc.) for all major server models. Monitoring is tied into the QuantaStor call-home system so that administrators can more easily manage and monitor the hardware in distributed hybrid-cloud configurations.

About OSNEXUS

OSNEXUS is a leading manufacturer of hyper-scale SDS solutions with the QuantaStor™ Software Defined Storage (SDS) platform. QuantaStor SDS provides NAS, SAN, and Object storage in a single platform with unique storage grid technology. QuantaStor's grid technology simplifies the process of managing multisite and multi-PB storage environments. QuantaStor SDS is sold worldwide through, OEMs, VARs, MSPs, and System Integrators to provide customers with packaged turn-key solutions.



Storage media like SSDs, HDDs, and NVMe media are combined to create fault-tolerant and highly available Storage Pools. Storage Pools provide a logical entity from which all types of storage may be provisioned including file storage (Network Shares), and block storage (Storage Volumes).



Grid Configuration Analyzer - QuantaStor puts the expertise of a Solution and Support Engineer into the software itself with grid self-analysis tools which detect Security, Performance, Network, and other configuration issues, then compiles it into a report with a recommended action to resolve each item.

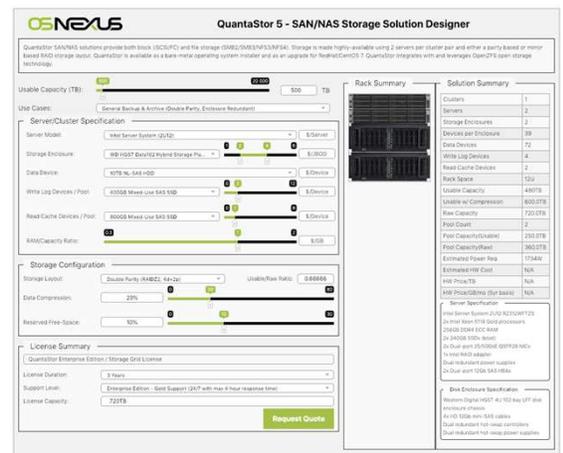
QuantaStor Solution Design Web Apps

SAN/NAS Solution Design

The SAN/NAS Solution Design web app makes designing SAN/NAS storage clusters quick and easy. Clusters are designed around a two-node server model with attached SAS or NVMe storage chassis. Protocol coverage includes block (iSCSI/FC) and file (SMB3/NFS4) storage access.

Object Storage Solution Design

The Object Storage Solution Design web app provides this same ease of configuration and design for scale-out storage clusters. QuantaStor scale-out clusters support replica and erasure-coding based data protection. Protocol coverage includes block (iSCSI/FC/Ceph RBD), file (SMB/NFS/CephFS), and object storage (S3/SWIFT) access.



www.osnexus.com/design

QuantaStor Reference Configurations

SAN/NAS Appliances

All Flash

All-Flash QuantaStor appliances provide high IOPS through the use of 10x SSDs per appliance for SAN/NAS workloads.



Hybrid

Hybrid QuantaStor appliances combine two SSDs with two or more HDDs to form a hybrid storage pool for SAN/NAS workloads.



Archive

Archive QuantaStor appliances combine hundreds of high capacity HDDs to deliver 3PB+ of raw capacity for NAS backup and archive use cases.



Scale-out Appliances

Scale-out iSCSI Block Storage

QuantaStor's Ceph based scale-out iSCSI block storage easily scales by adding appliances and can be used with a broad spectrum of hypervisors including VMware.



Scale-out S3 Object Storage

QuantaStor's Ceph based scale-out object configurations are S3 and SWIFT compatible. Configurations scale-out by adding additional drives and appliances.



Scale-out NAS Archive Storage

QuantaStor's Gluster based Scale-out NAS Storage provide NFS and SMB accessible scale-out NAS storage that is ideal for archive use cases.



NAS Gateway Appliances

NAS Gateway to Cloud Storage

QuantaStor NAS Gateway appliances provide 1-to-1 file-to-object access to cloud storage via standard file protocols including NFS and SMB. Appliances may also be configured to automatically back up servers or other NAS filers to cloud storage.



Virtual Storage Appliance

QuantaStor Virtual Storage Appliances (VSA) provide a low-cost way to expand a storage grid into other datacenters for quick and easy implementation of a disaster-recovery (DR) site. VSAs have all the same features as bare-metal QuantaStor deployments and are suitable for workloads with moderate capacity and performance requirements.