

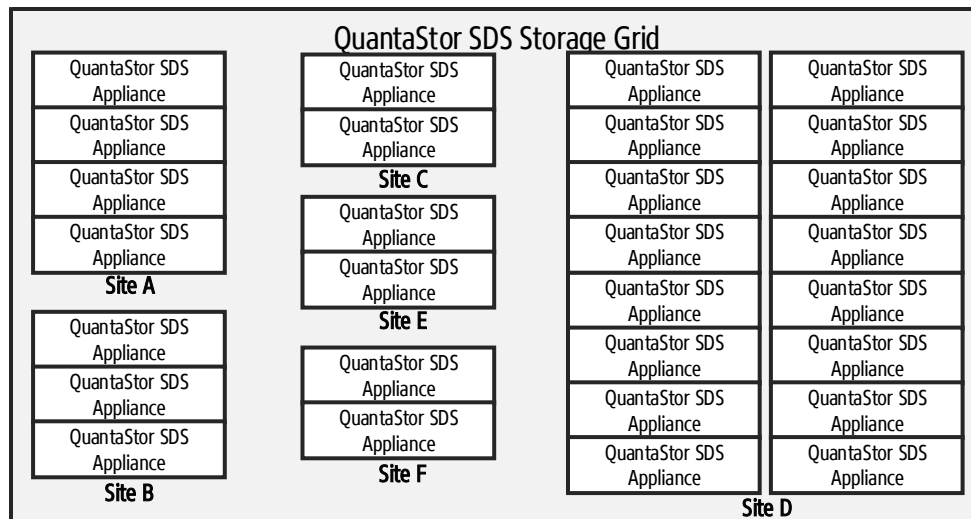
QuantaStor SDS Storage Grid Technology Overview

As organizations grow and additional storage appliances are added to an environment it can quickly create a myriad of problems including management complexity, security and asset tracking problems that can greatly impact the ROI for storage investments across an environment. Some organizations try to address these issues by introducing storage resource management (SRM) software but that too can slow the provisioning process and reduce the agility of an organization.

The complexity of managing storage at scale yielded a number of questions and requirements challenging the traditional SAN/NAS storage system architectures. Questions including:

- Why not link appliances together into a “grid” so that it’s just as easy to manage 10x or 100x or more appliances as a unit?
- Why not allow the storage grid to span sites and datacenters so that it is easy for IT organizations to deploy across data-centers, co-lo, and remote offices?
- Why not enable IT organizations to use a heterogeneous mix of server hardware based of a set of Reference Configurations for all the major vendors?
- Why not allow appliances to have different types of storage (SSD, NVMe, SAS, SATA) and capacities to meet a variety of application requirements?
- Why not make it easy to automate the grid from any node using REST APIs and a CLI so that organizations and MSPs can simplify common tasks?
- Why not support SAN, NAS and S3 Object storage in a single platform so that storage assets can be reconfigured with ease to match the changing needs of agile IT organizations?
- Why not design it to be easy to manage by IT generalists via a intuitive web management interface rather than requiring expensive and time consuming training programs?

All these questions led us to the development of the QuantaStor SDS platform and its internal storage grid technology which answers all of the above. With QuantaStor SDS an appliance is just a piece of a larger picture that can grow from a single appliance to 64x appliances and over 64PB of storage. With storage grid technology administrators can now enforce security policies with ease and make better more informed storage purchases. Grids also have global namespace capabilities so NAS shares can be grouped together and easily presented to users so they don’t have to go hunting for their content. IT organizations are no longer stuck with one-dimensional products but rather are empowered to deploy a mix of SAN/NAS and S3 object storage configurations under a single platform. Scaling is now easy and without worry of the hardware vendor lock-in issues inherent with traditional proprietary systems. With QuantaStor SDS storage grids the rigid expandability options and high-risk and expensive 3-4 year “fork-lift” upgrades of traditional SAN/NAS hardware go away leaving IT organizations empowered to upgrade on their time table.



Summary

QuantaStor enables organizations to easily scale and deploy storage appliances across sites and datacenters while linking them together to form a storage grid. Grids make it easy to manage, provision and replicate storage across an environment while maintaining strong security and encryption policies that are easy for IT organizations to enforce. With scalability from a single appliance to 64x appliances and 64PB in a single grid QuantaStor is an ideal solution for organizations looking to improve the ROI of their storage environment by up to 50% or more while boosting the agility and capabilities of their IT organization.

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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 to simplify 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.