

# Simple, Full-Featured Hyperscale Deployments with OSNEXUS QuantaStor Storage Grids

**Date:** February 2019 **Author:** Aviv Kaufmann, Senior ESG Lab Analyst

## According to ESG Research:



The top three most-cited benefits of deploying software-defined storage (SDS) are **lower operational cost, faster deployment, and simplified management**.<sup>1</sup>

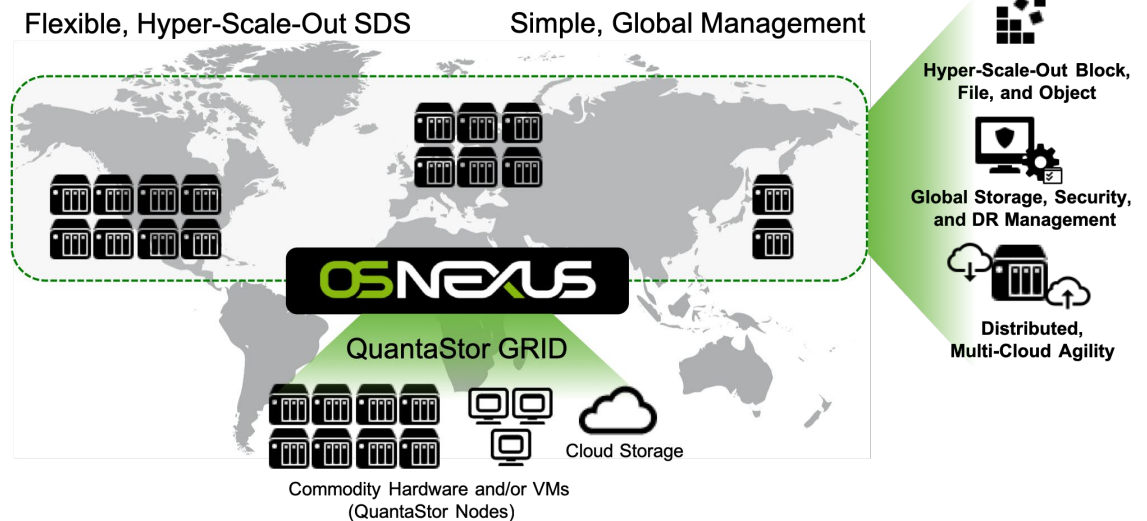


**Storage infrastructure** is the most-cited area of on-premises infrastructure and operations that IT professionals believe offers an **opportunity to significantly streamline or reduce costs**.<sup>2</sup>

## OSNEXUS QuantaStor Storage Grids: Simplified Scale-out SDS for File, Block, and Object

OSNEXUS QuantaStor is a hyperscale SDS solution that allows organizations to turn commodity hardware into a globally scalable, software-defined storage solution with file, block, and object protocol support. OSNEXUS leverages the scale-out capabilities of proven open source solutions from Ceph, GlusterFS, and ZFS in conjunction with its own proprietary storage hardware virtualization capabilities. This enables OSNEXUS to offer organizations storage deployment flexibility from open source technologies, while also removing many of the complexities related to configuration, management, and growth. And because QuantaStor supports simultaneous

deployments of high-performance file, block, and object storage via Ceph, GlusterFS, and ZFS, organizations gain agility to dynamically allocate storage resources to applications with different storage requirements whenever they are needed across the globe.



ESG took an early look at OSNEXUS' technology in 2016 and encourages readers to read the [2016 report available on the OSNEXUS website](#) for a basic understanding of the underlying technologies and the results of some initial testing around the deployment and configuration of a Ceph-based QuantaStor deployment at a single location. QuantaStor Grid technology allows local and remote QuantaStor appliances to be linked together and managed and monitored using a single web management interface, REST API, or CLI session. Operations and workflows can be fully automated and orchestrated across the entire Storage Grid, creating a global software-defined storage appliance that can be managed by a single administrator. This greatly reduces operational expenses by simplifying deployment, management, monitoring, planning, and security. The operational agility provided by deploying a QuantaStor Grid instead of point storage solutions at each location is increasingly

<sup>1</sup> Source: ESG Research Report, [Software-defined Storage \(SDS\) Market Trends](#), February 2017.

<sup>2</sup> Source: ESG Brief, [Streamlining On-premises Infrastructure: Lessons from the Cloud](#), January 2018.

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## First Impressions

Organizations are increasingly aware of the value of the data that they create, acquire, and store. Data created on mobile devices, web-based applications, IoT, and at offices and data centers located around the globe contain information that is critical to the success of the business. Each platform may be optimized to run on a particular storage technology and being able to move data between platforms is critical. Providing high-performance, cloud-like hyperscale storage services to a globally distributed organization is costly in terms of equipment and complex to plan, manage, monitor, and secure.

By now, most organizations understand the economic and operational benefits of deploying software-defined storage solutions, but choosing the right solution for all use cases can prove difficult. Deploying SDS across distributed sites and on disparate hardware can be complex and introduce challenges around interoperability. OSNEXUS QuantaStor grid technology greatly reduces the complexity of deploying, managing, and monitoring distributed storage systems and technologies, while reducing risk to the organization and providing the benefit of automated workflows. If you're considering deploying hyperscale SDS for a globally distributed organization, ESG Lab suggests considering OSNEXUS.

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