

Optimizing OSNEXUS' QuantaStor SDS for Backup and Archive

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One of the most compelling use cases for OSNEXUS' QuantaStor Software Defined Storage (SDS) is to automate backup, restore and archiving of business-critical data. QuantaStor's software-defined storage grid technology effortlessly solves many of the typical challenges faced by IT shops everywhere, including protecting that data that will continue to grow unabated for most companies. That explosion of data is due at least in part to Big Data and data analytics that companies are leveraging as a strategic business competitive advantage. As companies begin to rely on Big Data and analytics for strategic and tactical planning purposes, the underlying data then meets the definition of business-critical data: data without which companies cannot generate revenue and continue normal operations. This shift from 'nice-to-have' to business-critical status for your data underscores the importance of backing-up and archiving that data on an ongoing basis. QuantaStor offers a compelling, scale-out backup and archiving solution at a very competitive price.

Approximately 50% of all stored data consists of backup and analytic data that must be available for restore and business use, reinforcing the need for a cost-effective, scalable storage solution that is easy to deploy, operate and maintain. QuantaStor SDS makes sophisticated backup and archiving capabilities available to companies of all sizes, including data that was previously stored on tape can now be shifted to low-cost nearline disk storage, while maintaining high recovery time objectives (RTOs).

The growth of public clouds also presents an opportunity for on-premises storage solutions to access very competitively priced cloud storage and archiving offerings while simultaneously providing off-premises protection of that data. In addition to reducing the complexity of private clouds and assuring regulatory compliance of your data storage strategy, QuantaStor SDS offers load balancing between Grid nodes and multiple fault-tolerance options across the Grid whether storage is on premises or in the cloud.

Features that bolster backup/archive

QuantaStor helps eliminate all of these challenges via scale up and scale out capabilities that concurrently support file, block and object storage technology. QuantaStor also seamlessly supports NFS, CIFS/SMB and OpenStack SWIFT/S3 with "one-click" encryption and security at the user and cloud level. Furthermore, QuantaStor supports Volume Shadow Copy Services, unlimited on-demand snapshots, as well as automated snapshot scheduling. All in-transit data is protected using IPSEC and Intel AES-NI extensions for high-performance data encryption/decryption. QuantaStor supports at-rest data security using Avago MegaRAID SafeStore RAID controllers for self-encrypting drives. QuantaStor also supports RAID controllers from Dell, IBM, Adaptec, HP and HGST. These layers of data protection meet or exceed regulatory and corporate governance data security requirements. Bit Rot protection and data compression are also standard features of QuantaStor SDS. Finally, QuantaStor is compatible with many backup applications including Veritas NetBackup and Backup Exec and Commvault Data Management System.

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One of the reasons that companies of all sizes have always struggled with backup and archiving of business-critical data is due to the cost and complexity of traditional backup and archiving strategies. QuantaStor SDS solves all of these problems in a very cost-effective, easy-to-use software-defined storage solution that can provide elastic storage capabilities, automated backups and optional cloud-based archiving, all through the physical or virtualized storage nodes that offer high-performance encryption, fault-tolerance and load balancing. QuantaStor solves the myriad data protection problems facing companies of all sizes, from mom-and-pop shops all the way up to enterprise IT organizations. ●

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