Unify Big Data and Fast Data with Scalable Grid Technology

Challenges

- Keeping pace with exponential data growth without busting the budget
- Growing costs and complexity of supporting and maintaining multiple nonintegrated solutions
- Meeting increasing data retention, security and compliance requirements
- Increasing time spent managing systems due to lack of quality automation and monitoring tools

Highlights

- Unifies file, block and object storage into a single platform with advanced storage grid technology
- Simplifies automation and management to lower maintenance costs
- Delivers end-to-end protection to assist meeting NIST, CJIS, and HIPAA requirements

Solution

The combination of OSNEXUS QuantaStor with Western Digital hybrid storage platforms creates a unified software-defined storage platform that delivers maximum IOPS and throughput for mission-critical workloads and applications while enabling rapidly growing amounts of data to be stored, managed and protected without busting tight IT budgets.
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August 2020

Applications due to their reduced server and network hardware requirements. QuantaStor leverages OpenZFS technology in its scale-up cluster solutions.

Scale-out solutions combine 3x to 64x servers into a cluster and use erasure-coding and replica-based data distribution and fault-tolerance techniques to achieve high availability in the event of one or more server outages. Scale-out storage clusters are generally better at scaling throughput with capacity while presenting all of the storage to the end users within a single namespace. Scale-out clusters can also span multiple sites. QuantaStor leverages Ceph™ technology in its scale-out cluster solutions.

Conclusion

With data continuing to grow exponentially, storing, managing, and protecting both Fast Data and Big Data within a tight budget is a challenge. Western Digital and OSNEXUS balance storage efficiency at scale with the need to access data quickly enabling the acceleration of business activities, processes, and competencies. The combination of OSNEXUS QuantaStor with Western Digital storage platforms enable digital business transformation in a strategic and prioritized way by delivering the ability to analyze Fast Data in real-time while gaining insight from the large collections of Big Data.

For more information on Western Digital’s powerful lineup of storage platforms, visit our website at www.westerndigital.com/platforms.

IsoVibe™ Vibration Isolation Technology

Precise cuts in the baseboard provide a suspension for the drives in the chassis, isolating them from transmitted vibration. The result is that consistent performance is maintained, even when all the drivers are working hard.

ArcticFlow™ Thermal Zone Cooling Technology

By introducing cool air into the center of the chassis, drives operate at lower and more consistent temperatures than conventional systems. This results in lower fan speeds, reduced vibration, lower power consumption, quieter operation and ultimately higher reliability.

Western Digital Ultrastar® and OpenFlex™ Hybrid Storage Platforms