DELL Technologies

Handout

TOP REASONS TO MIGRATE TO DELL EMC POWERSTORE

PowerStore is architected to eliminate the typical tradeoffs in performance, scalability and storage efficiency, and is built on the most advanced technologies available in order to deliver the performance, cloud-like flexibility and extended lifecycles that organizations require. PowerStore delivers a dynamic approach to scalability with storage efficiency based on advanced, inline data reduction. It supports any workload, including physical or virtual, block, file, or container-based, with NVMe Flash and SCM performance that can scale both up and out as application demands increase. And PowerStore's native data migration capabilities will accelerate time-to-value for existing applications.

1 | Next-Generation Storage Technology

PowerStore has been designed from the ground up to take advantage of the latest developments in storage, interface and network technologies. The end-to-end NVMe architecture of the PowerStore appliance delivers the full benefits of solid-state storage, with higher bandwidth and lower latency to match the requirements of Flash SSDs, as well as new Intel Optane storage class memory (SCM) for even greater performance. PowerStore's high-availability active-active design supports block, file and vVols natively on a single system.

2 | Scale Up and Out for Flexible Growth

Advanced clustering technology enables PowerStore to scale system processing power up to four appliances, while individual drive scaling addresses flexible capacity growth and resource balancing. With This balanced approach enables capacity and performance to be scaled independently and cost-effectively. to storage scalability, the traditional strength of midrange storage, delivering cost effective scaleup capacity, is matched with the ability to scale performance as application needs grow and evolve. And with intelligent resource balancing, PowerStore can automatically balance storage and workloads to maximize system utility.

3 | Advanced Data Reduction

PowerStore delivers superior, consistent storage efficiency enabled by its inline, always-on data reduction, including advanced deduplication and compression, with the significant performance benefits of hardware acceleration utilizing Intel QuickAssist Technology. The hardware offload capability integrated into each PowerStore appliance provides 40 Gbps of total throughput, thereby conserving main CPU cycles for storage I/O tasks. With always-on data reduction, PowerStore provides a guaranteed reduction rate of 4:1, with up to 20:1 available depending of the type of data.

4 | Unmatched Agility with AppsON

Integration of PowerStore's software-defined architecture with on-board VMware ESXi results in a new level consolidation for enterprise storage, combining the benefits of a local on-array application environment with unmatched integration with the vSphere management environment and server resources. Benefits of the AppsON capability include a new level of agility for application deployments, with seamless movement between the PowerStore appliances and VMware ESXi servers, as well as the ability to shrink the stack by eliminating server and networking footprint for space-efficient edge and remote deployments.

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5 | Intelligent Automation

PowerStore uses intelligent data placement to improve system utilization and performance through the balanced provisioning of new appliance storage volumes, while the machine learning engine continuously monitors the cluster and recommends actions for re-balancing of cluster resources, identifying and automating the changes required to maintain optimal efficiency. PowerStore streamlines application development and automates storage workflows through integration with a broad ecosystem of leading DevOps and open management frameworks. It supports comprehensive integration with VMware management and its operational features including vSphere storage management and provisioning, VAAI, VASA and native vVols support. In the burgeoning areas on containerization and DevOps, PowerStore users can take advantage of plug-ins including those for CSI, Kubernetes, Ansible and vRealize Operations.

6 | Seamless Migrations

The PowerStore system as well as its ecosystem of supporting solutions are designed to accelerate time to value as customers deploy their new platform. Those deployments involving existing data and applications are inherently the most challenging, and PowerStore includes a comprehensive set of capabilities for online migration of applications from users' existing Dell EMC storage platforms. Native PowerStore tools include Data Migration plugin for Dell EMC PowerStore, enabling automated, non-disruptive migration of users block storage.

Learn more about Dell EMC PowerStore solutions

Contact a Dell EMC Expert

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