

Dell PowerStore vs. HPE Alletra

Dell PowerStore

Run VMware ESXi hosted apps via AppsON technology¹

Dell PowerStore with AppsON¹ offers a purpose-built array with a built-in VMware ESXi hypervisor.

Anytime Upgrade², Industry's most flexible program for controller upgrades³

Optional controller upgrade program offers choice of next gen, higher model or discounted additional new controller.³ No subscription renewal required.

End-to-end NVMe and SCM

Persistent NVMe or SCM or use SCM as a metadata tier to reduce latency. NVMe/FC or NVMe/TCP (up to 100 GbE) with SmartFabric Storage Software.

Unified Storage with block, native file, and vVols support

File⁴, block and vVols in a single, unified, easy-to-manage platform.

Flexible drive resiliency for lower TCO

PowerStore implements resiliency sets to improve reliability. Supports single or dual parity, can expand 1 drive at a time using different drive sizes for lower TCO.

Intelligent data reduction with 4:1 DRR guarantee⁵

Always-on dedupe and compression work proactively to optimize capacity and performance. No assessment required⁶.

Robust security

Security includes Hardware Root of Trust, security anomaly detection, RBAC, FLR, FIPS 140-2 Level 2 validation.



HPE Alletra 6000 & 9000

No VMware ESXi support to host apps locally

No option to deploy app on the array.

Technology Refresh Service

Optional service offers upgrade to latest-gen controller after 3 years. 6-year program participation required for media credit towards new purchase.

All-NVMe but SCM only as read cache

SCM is only used as extended read cache and only in Alletra 6050, 6070, and 6090. SCM is not available in Alletra 9000. Only Alletra 9000 has NVMe-oF.

Block and vVols support only

No native file support. File services require a gateway server adding costs and complexity.

Less flexible drive resiliency options

Alletra 6000 uses triple parity, expands in 12 or 24 drive bundles. Alletra 9000 uses dual parity, requires drive symmetry.

Adaptive data reduction

Always-on, inline dedupe and adaptive compression. Data compaction guarantee depends on workload type, an assessment may be required.

Lacks some security features

Security includes FIPS-certified encryption and RBAC. No Hardware Root of Trust or security anomaly detection.

¹ Available on PowerStore X models only. ² Anytime Upgrade is available for purchase with PowerStore at POS only and requires a ProSupport or ProSupport Plus contract with a 3, 4 or 5-year term. Upgrades available 180 days after invoice. ³ Anytime Upgrades Select provides next gen controller from Anytime Upgrades Standard, plus choice of in-family upgrade or scale-out discount toward second appliance solution, availability may vary by model. Dell ProDeploy Plus is required for scale-out deployment. ⁴ Available on PowerStore T models only. ⁵ Storage Data Reduction Guarantee: Requires customer signature and purchase of ProSupport Plus or ProSupport with Mission Critical. Applicable products include All-Flash Storage products only. See [Terms and Conditions](#). ⁶ Based on a Principled Technologies report commissioned by Dell EMC, "Enable Greater Data Reduction and Storage Performance with Dell EMC PowerStore 7000 Series Storage Arrays", August 2020. Actual results may vary. See the full report [here](#).