

PowerStore vs. Pure FlashArray

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 Upgrade, Industry's most flexible program for controller upgrades²

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



Scale-Up & Scale-Out

Scale up maximum capacity across models and scale out to up to 5.71 PB Raw (18PBe⁴) across four arrays managed as a cluster.



Always on, intelligent data reduction with 4:1 guarantee⁵

Future-Proof offers average 4:1 data reduction guarantee; always-on data reduction proactively optimizes both performance and capacity.



SCM as Persistent Storage or metadata

Leverage SCM as persistent storage for your highest performance workloads, across all PowerStore models.



Automated deployment of 100GbE NVMe/TCP with SmartFabric Storage Software (SFSS)

Industry's first software tool for automating NVMe/TCP infrastructure discovery and configuration.⁶



Pure FlashArray//X

No VMware ESXi support to host apps locally
Purity Run does not support VMware ESXi; it supports a limited number of applications suited to lightweight, data services-oriented processes.

Evergreen//Forever - Controller refresh every three years with "Ever Modern" provision
Optional controller refresh to newest generation controller only. Requires 3-year commitment and 3-year renewal. "Ever Agile" controller upgrade credit requires capacity upgrade and resets the clock on the "Ever Modern" controller refresh.

No native Scale-Out

Scale-up capacity is limited based on controller model. No block scale-out capabilities - each array is isolated and managed separately.

Adaptive data reduction without data reduction guarantee

No data reduction rate guaranteed; Right Size Guarantee is a separate add-on which requires an assessment.

SCM only as read cache, not persistent storage

SCM used only as a read cache, and only available on higher-end FlashArray models; SCM not used as persistent storage.

No NVMe/TCP, 100GbE only on select models

FlashArray does not support NVMe/TCP at this time, NVMe/RoCE or FC. 100GbE only available on FlashArray //XL models.

¹ Available on PowerStore X models only.

² Based on Dell analysis, April 2020 using publicly available data to compare the highest available program/subscription offers for node upgrades. 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 Max effective capacity assuming 4:1 average data reduction. Actual results may vary, depending on data types.

⁵ 4:1 average rate guaranteed across customer applications. Rates for individual applications may vary. See Future-Proof Program terms and conditions for details.

⁶ Based on Dell analysis comparing NVMe/TCP discovery and registration with PowerMax/PowerStore using SmartFabric Storage Software vs competitive storage solutions, March 2022.

Comparison based on Dell analysis using publicly available information, July 2022.

Copyright © 2022 Dell Inc. or its subsidiaries. All Rights Reserved. Dell Technologies, Dell, EMC, Dell EMC and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners.