Dell EqualLogic PS6510 and PS6500 Series

Density, capacity and performance in one array

Dell™ EqualLogic™ PS6510 and PS6500 virtualized iSCSI SANs maximize enterprise performance, reliability and capacity while minimizing total cost of ownership (TCO) and administrative overhead. The PS65x0 series arrays provide cost-effective capacity and performance designed to scale up to 2.3PB without downtime.

Always ready for the next big thing

Intelligently manage your infrastructure with enterprise storage that is reliable, easy to use and enables you to keep pace with your changing business needs. The EqualLogic PS65x0 series is designed to optimize capacity utilization and performance dynamically through auto-tiering and load balancing. It enhances the value of your existing infrastructure investments by seamlessly integrating with virtualized applications and toolsets already in place. In addition, as your needs change, the EqualLogic PS65x0 series brings peer scaling to your storage environment, enabling you to add capacity without downtime while protecting your data securely and reliably. As a result, users can optimize both performance and capacity while achieving a lower total cost of ownership over a five-year period compared to two competitive systems.**

Deliver data dynamically

The EqualLogic PS6510 and PS6500 arrays automatically adjust to changing data demands by reducing latency and load balancing across all EqualLogic SAN resources. Available with 10GbE or 1GbE controller options, the PS65x0 series also features NL-SAS, 10K SAS, or auto-tiering hybrid (SSD + NL-SAS) configurations. When combined with EqualLogic FS series NAS appliances, the PS65x0 arrays offer a unified block and file storage solution minimizing both resource management and storage costs.

Easily manage your virtual environment

Seamlessly integrate and manage storage within a virtual environment. As with all EqualLogic arrays, all-inclusive software licensing delivers advanced storage functionality at no additional cost. EqualLogic software is multi-generational, so as your storage and business requirements grow, your existing SAN resources receive continuous advancements and capabilities, helping to generate a substantial return on investment. EqualLogic's Host Integration Toolkits for VMware®, Microsoft® and Linux® are all engineered to heighten performance and increase efficiency and reliability of the virtualization technologies you are already using.

Scale without fail

Workloads are expanding rapidly, and storage is required to meet demands today and in the future. EqualLogic adapts to increasing demands with iSCSI SAN storage that non-disruptively moves the right data to the right place at the right time at the right cost. The EqualLogic peer-scaling architecture provides the flexibility to scale your storage environment when the need arises. This distinctive feature enables expansion of computing power and capacity across multi-generational EqualLogic arrays.

For tiered workloads, the PS6510 hybrid arrays can process up to 430% more IOPS with 79% reduced latency than peer systems.*

Dell EqualLogic PS65x0 Features						
Product configurations	**PS6500E**	**PS6500X**	**PS6500ES**	**PS6510E**	**PS6510X**	**PS6510ES**
Storage controllers	Dual 1GbE controllers with a total of 4 GB† battery-backed memory per array. Battery-backed cache provides up to 72 hours of data protection			Dual 10GbE controllers with a total of 4 GB† battery-backed memory per array. Battery-backed cache provides up to 72 hours of data protection		
Network interfaces	Four (4) GbE copper per controller			Two (2) 10GbE SFP+ per controller		
Hard disk drives	Forty eight (48) SATA or NL-SAS hot-plug-gable hard disk drives	48 SAS hot-pluggable hard disk drives	Seven (7) SSD drives + Forty one (41) NL-SAS hot-pluggable hard disk drives	Forty eight (48) SATA or NL-SAS hot-plug-gable hard disk drives	48 SAS hot-pluggable hard disk drives	Seven (7) SSD drives and forty one (41) NL-SAS hot-pluggable hard disk drives
Drive capacities	• 1 TB or 2 TB 7.2k SATA • 3 TB 7.2k NL-SAS or SED***	• 600 GB SAS • 900 GB 10k SAS or SED***	• Seven (7) 400 GB SSDs and forty-one (41) 2 TB NL-SAS	• 1 TB or 2 TB 7.2k SATA II • 3 TB 7.2k NL-SAS or SED***	• 600 GB 10k SAS • 900 GB 10k SAS or SED***	• Seven (7) 400 GB SSDs and forty-one (41) 2 TB NL-SAS
System capacities	• 24 TB using 500 GB drives • 48 TB using 1 TB drives • 96 TB using 2 TB drives • 144 TB using 3 TB HDD or SED drives***	• 28.8 TB using 600 GB drives • 43.2 TB using 900 GB HDD or SED drives***	• 84.8 TB (2.8 TB using 400 GB SSD high performance and 82 TB using 2 TB NL-SAS drives)	• 48 TB using 1 TB SATA II • 96 TB using 2 TB SATA II • 144 TB using 3 TB HDD or SED drives***	• 28.8 TB using 600 GB drives • 43.2 TB using 900 GB HDD or SED drives***	• 84.8 TB (2.8 TB using 400 GB SSD high performance and 82TB using 2 TB NL-SAS drives)
Volumes	Up to 1024					
Snapshots	512 per volume/up to 10,000 total					
OS supported	Windows® 2000 Server, Windows Server® 2003, Windows Server® 2008, including Hyper-V™, Windows Server® 2008 R2 including Hyper-V™, Windows Server® 2012, Red Hat® Enterprise Linux®, SUSE® Linux® Enterprise, Sun™ Solaris™, IBM® AIX®, HP-UX, Mac OS® X, VMware® ESX Server 3/3.5/4/4.1/5, ESXi 3.5/4/4.1/5, Citrix® XenServer™, Novell® NetWare®					
RAID supported	RAID 6, RAID 10, RAID 50, and RAID 5****		RAID 6 Accelerated	RAID 6, RAID 10, RAID 50, and RAID 5****		RAID 6 Accelerated
Expansion option	Can be combined with other EqualLogic PS Series arrays in the same SAN group, online. Up to 16 total members per group					
Unified storage options	Adding an EqualLogic FS7500, FS7600 or FS7610 NAS appliance to an EqualLogic group enables both block and file storage from a single storage solution					
Physical	Height: 17.5 cm / 6.89 in / 4 EIA units Width: 48.3 cm / 19.01 in / 1EC rack compliant Depth: 96 cm / 37.8 in Weight: 74.8 kg / 165 lb (maximum configuration)					
Warranty/support	Warranty: 3 year NBD Parts Support: 3 year ProSupport Installation and Implementation, 1 year Proactive Maintenance					

†GB means 1 billion bytes, TB equals 1 trillion bytes and PB equals 1 quadrillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
*Results based on August 2012 internal Dell testing using Dell ™ PowerEdge™ R710 and Dell 12G Servers
**According to 2012 Enterprise Strategy Group Lab Validation testing
***SED drives available November 2012
****RAID 5 only available via CLI

Maximize your TCO at dell.com/PSseries