

Solution Brief:

EqualLogic PS Series With VMware®

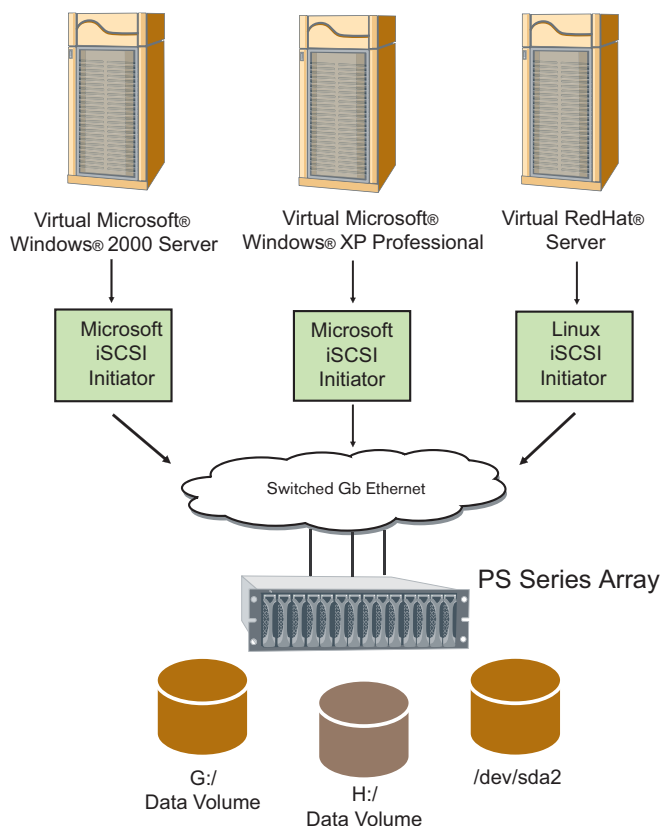
Virtual Servers Meet Virtual Storage

Consolidation of data center assets has become a trend in many IT environments, providing benefits such as improved hardware resource utilization, easier management, and lower costs. For storage, consolidation is accomplished by moving data off of direct attached storage (DAS) inside the server onto a shared pool of storage in a storage area network (SAN). Recently, server consolidation has become popular thanks to technologies like VMware ESX Server™ and GSX Server™. These "virtual machine" products consolidate server data images onto fewer hardware platforms which improves IT efficiency.

EqualLogic provides storage virtualization features with its award-winning PS Series arrays, offering higher storage utilization rates than alternative solutions. By combining PS Series arrays with VMware, IT administrators achieve virtualized environments with fewer servers and less wasted space.

Benefits of deploying VMware with PS Series arrays:

VMware Server Environment



- *Easier Management through Consolidation of Both Servers and Storage*
Save time by virtualizing your storage environment. In less than 20 minutes, the PS Series SAN can be operating and providing storage for your virtual machines. EqualLogic's operational simplicity is a perfect match for a centralized deployment of virtual machines. All of the data required to run a virtual server environment resides on the PS Series array and can be utilized in an instant from any server connected to the SAN. Consolidating all storage in one place results in optimal utilization of resources.
- *Flexible Server Configurations and Mapping to Hardware Resources*
With virtual server and storage infrastructures, your operating systems and applications can be portable between physical machines. SAN environments make this process easier, and an iSCSI SAN built on top of the industry standard TCP/IP protocol makes the process simple and affordable. Virtual machines can reside directly on the SAN and existing staff can be more productive.

VMware and iSCSI Support

VMware guests operating systems include operating system support for iSCSI:
Windows®, Linux, Novell®, Solaris™

GSX servers support iSCSI:
Windows and Linux servers

ESX servers adds iSCSI support in ESX 3.0

- *Consistent Deployments*
Whether they reside on virtual machines or physical servers, operating system and application environments are deployed consistently with best-practice consolidated storage.
- *Cost Savings*
Cost savings result from increased storage and server utilization rates.
- *Grow On Demand Without Downtime*
EqualLogic products expand easily as storage requirements grow. All capacity is virtualized as a single pool of definable storage – the result is simple and immediate server storage pool expansion. Whether you deploy PS Series storage for your host computer or for your guest virtual machines, you can quickly expand the SAN with no disruption to users.
- *Reliability and Redundancy*
PS Series arrays allow for Microsoft cluster configurations between guest virtual machines. In addition, PS Series arrays are fully redundant with dual controllers, power supplies, and fans, all of which can be serviced online.
- *Remote Site PS Series Volume Replication*
With PS Series volume replication, VMware guest images can be automatically transferred to remote data centers, protecting the data from serious failures with no impact on data availability or performance.

Simplifying Networked Storage

EqualLogic PS Series solutions deliver the benefits of storage consolidation in an intelligent, enterprise-class storage system that is easy to install, manage and grow. Visit our web site at www.equallogic.com and let us show you what *simplifying networked storage* can mean for your business.

To learn more about EqualLogic, visit us at www.equallogic.com.



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