



# Dell EqualLogic Host Integration Tools

Dell® EqualLogic delivers comprehensive end-to-end storage solutions to help you store and manage your data. EqualLogic is inspired by its users with built-in advanced software features enabling high-end storage to organizations of all sizes with no additional licensing fees.

The EqualLogic Host Integration Tools include several easy-to-use host-based tools that tightly integrate EqualLogic storage area networks (SANs) with hosts and applications, delivering advanced data protection, high availability and performance, and simplified management of application data and virtual machines for Microsoft®, VMware® and Linux® environments.

## Protect business-critical data

Dell helps simplify and automate backup and recovery tasks customized to user applications and environments with a family of Host Integration Tools that enhance the efficiency and performance of data-protection tasks in Microsoft, VMware, and Linux environments.

Auto-Snapshot Manager/Microsoft® Edition (ASM/ME) provides centralized data-protection capabilities to backup and protect multiple Microsoft hosts from a single central host. ASM/ME creates, recovers and schedules Volume Shadow Copy Service (VSS)-compliant snapshots for Hyper-V virtual machines. ASM/ME enhances protection for application environments including Exchange Server, SQL Server® and Microsoft® NTFS in virtualized and non-virtualized environments.

Auto-Snapshot Manager/VMware Edition (ASM/VE) enables fast, online protection of VMware Virtual Machine File System (VMFS) with a vSphere plug-in that automatically manages snapshots and replicas with vCenter. EqualLogic Storage Replication Adapter (SRA) for VMware Site Recovery Manager integrates with VMware to provide centralized disaster-recovery management, automation and testing for the entire virtualized datacenter.

Auto-Snapshot Manager/Linux Edition (ASM/LE) offers high-performance, space-efficient, and file system-consistent data protection, enabling online protection of Linux file system, folders and files. ASM/LE provides a command-line interface (CLI) that coordinates the creation, recovery and scheduling of snapshots and replicas.

## Optimize storage performance

The unique peer storage architecture of EqualLogic storage arrays automatically balance workloads by seamlessly spreading data across multiple active storage resources, optimizing the available network connections, cache, controllers, and drives. EqualLogic Multipath I/O (MPIO) enables Microsoft, VMware and Linux platforms to intelligently leverage the EqualLogic SAN architecture, storage and network for optimized performance in customer environments. For Linux systems, Host Performance and Configuration Tuning Suite (EQLTUNE) enhances performance and usability by verifying and proactively correcting your Linux system parameters for optimal setup of iSCSI configuration.

## Streamline storage management and operations

Organizations that are implementing a SAN for the first time or want to migrate away from expensive, complex solutions will benefit from the integrated management features of EqualLogic. Built-in EqualLogic Host Integration Tools automate end-to-end operations from the hosts to the array, helping streamline data management on hosts. Host Integration Tools also enable simplified configuration and management of EqualLogic arrays, helping minimize time and training, and reducing the grind of daily operations. With the EqualLogic Remote Setup Wizard (RSW) and Remote Setup Wizard Command-line Interface (RSWCLI), traditionally tedious discovery and setup tasks are simplified using an intuitive, step-by-step user interface. EqualLogic PowerShell tools help manage and automate routine EqualLogic management tasks in a Microsoft environment.

Host Integration Tool – Microsoft® (HIT/Microsoft)	
Uses	Features
Protect Business-Critical Data	Auto-Snapshot Manager/Microsoft Edition (ASM/ME) – Microsoft Exchange Auto-Snapshot Manager/Microsoft Edition (ASM/ME) – Microsoft SQL Server® Auto-Snapshot Manager/Microsoft Edition (ASM/ME) – NTFS File System Auto-Snapshot Manager/Microsoft Edition (ASM/ME) – Microsoft Hyper-V Volume Shadow Copy Service (VSS) Provider
Optimize Storage Performance	Multipath I/O (MPIO)
Streamline Storage Management and Operations	Remote Setup Wizard (RSW) Remote Setup Wizard Command-line Interface (RSWCLI) PowerShell Tools High Performance Computing (HPC) iSCSI Provider
Technical Highlights	
Operating Platforms	Microsoft XP Pro SP2, Windows Vista®, Windows® 7, Windows Server® 2003 R2 SP2, Windows Server® 2008, Windows Server® 2008 Core, Windows Server 2008 R2, Windows Server® 2008 R2 Core <i>Note: PowerShell Tools require a minimum version of Windows PowerShell 2.0</i>
Supported EqualLogic Arrays	Host Integration Tools support arrays under the EqualLogic PS Series Brand
Software Delivery	HIT/Microsoft is delivered as a single package and is available for download from the EqualLogic support site. ( <a href="https://www.equallogic.com/support/Default.aspx">https://www.equallogic.com/support/Default.aspx</a> )
Availability	All EqualLogic software is included in the cost of the array. Customers with a valid Dell ProSupport* agreement can download software updates without paying additional license fees.
Host Integration Tool – VMware® (HIT/VMware)	
Uses	Features
Protect Business-Critical Data	Auto-Snapshot Manager/VMware Edition (ASM/VE) for VMware virtual machines, virtual machine folders, data stores and clusters
Optimize Storage Performance	Multipath I/O (MPIO)
Streamline Storage Management and Operations	Datastore Manager Virtual Desktop Deployment Utility
Technical Highlights	
Operating Platforms	EqualLogic vSphere Plug-in - VMware ESX server 4.1, 5.0, and vSphere Client 4.1, 5.0 <i>Note: Virtual Desktop Deployment Utility feature requires VMware View 4.5, 4.6 or 5.0</i> EqualLogic Storage Adapter for VMware Site Recovery Manager- Windows Server 2003 or Windows Server 2008 <i>Note: Requires VMware Site Recovery Manager 1.0 or 4.0</i> Multipath I/O - VMware ESX or ESXi 4.1, 5.0 and vSphere Client 4.1, 5.0 or vSphere vMA/CLI 4.1, 5.0
Supported EqualLogic Arrays	Host Integration Tools support arrays under the EqualLogic PS Series Brand
Software Delivery	HIT/VMware is delivered as three packages: <ul style="list-style-type: none"> <li>EqualLogic vSphere Plug-in includes Auto-Snapshot Manager/VMware Edition, Datastore Manager and Virtual Desktop Deployment Utility Features</li> <li>Storage Replication Adapter for VMware Site Recovery Manager</li> <li>Multipath I/O</li> </ul> All EqualLogic Software is available for download from the EqualLogic support site. ( <a href="https://www.equallogic.com/support/Default.aspx">https://www.equallogic.com/support/Default.aspx</a> )
Availability	All EqualLogic software is included in the cost of the array. Customers with a valid Dell ProSupport* agreement can download software updates without paying additional license fees.
Host Integration Tool – Linux® (HIT/Linux)	
Uses	Feature
Protect Business-Critical Data	Auto-Snapshot Manager/Linux Edition (ASM/LE) - Linux File System
Optimize Storage Performance	Multipath I/O (MPIO) Host Performance and Configuration Tuning Suite - (EQLTUNE)
Streamline Storage Management and Operations	Remote Setup Wizard Command Line Interface - (RSWCLI)
Technical Highlights	
Operating Platforms	CentOS 5.7, Red Hat Enterprise Linux (RHEL) 5.7, 6.1 and 6.2, SUSE Enterprise Linux Server (SLES) 11 SP1
Supported EqualLogic Arrays	Host Integration Tools support arrays under the EqualLogic PS Series Brand
Software Delivery	HIT/Linux is delivered as a single package and is available for download from the EqualLogic support site. ( <a href="https://www.equallogic.com/support/Default.aspx">https://www.equallogic.com/support/Default.aspx</a> )
Availability	All EqualLogic software is included in the cost of the array. Customers with a valid Dell ProSupport* agreement can download software updates without paying additional license fees.

\*Availability and terms of Dell Services vary by region. For more information, visit [www.dell.com/servicesdescriptions](http://www.dell.com/servicesdescriptions).  
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