



Dell EqualLogic Host Integration Tools

Dell® EqualLogic delivers comprehensive end-to-end storage solutions to help you store and manage your data so you can effectively move the right data to the right place at the right time—for the right cost. 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 SAN 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 the Host Integration Tool features that enhance the efficiency and performance of data protection tasks in Microsoft and VMware 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 coordinates and automates the creation, recovery and scheduling of Volume Shadow Copy Service (VSS) compliant EqualLogic SAN based snapshots for Hyper-V virtual machines. ASM/ME also provides enhanced data 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 machines and VMFS file systems. ASM/VE provides a VMware vSphere plugin interface that coordinates and automates the creation, recovery and scheduling of snapshots and replicas with vCenter. With ASM/VE, VMware-based virtual infrastructures can achieve enhanced protection, storage utilization, and performance. Data protection in a VMware environment can be further enhanced with EqualLogic Storage Replication Adapter for VMware Site Recovery Manager (SRA SRM) which integrates with VMware to provide centralized disaster recovery management, automation and testing for the entire virtualized datacenter.

Optimize storage performance

The unique peer storage architecture of EqualLogic storage arrays automatically balances workloads by seamlessly spreading data across multiple active storage resources, and optimizing the available network connections, cache, controllers, and drives. EqualLogic Multipath I/O (MPIO) enables Microsoft, VMware and Linux platforms to intelligently leverage EqualLogic SAN architecture, storage and network usage for optimized performance for customer environments. For Linux systems, Host Performance and Configuration Tuning Suite (EQLTUNE) enhances performance and usability by verifying your Linux system for optimal set up 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 RSW CLI), 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 Set-Up Wizard (RSW) Remote Set-Up 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. (https://www.equallogic.com/support/Default.aspx)
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 Plugin – 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"> EqualLogic vSphere Plugin includes Auto-Snapshot Manager/VMware Edition, Datastore Manager and Virtual Desktop Deployment Utility Features Storage Replication Adapter for VMware Site Recovery Manager Multipath I/O All EqualLogic Software is available for download from the EqualLogic support site. (https://www.equallogic.com/support/Default.aspx)
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
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	Red Hat Enterprise Linux Version 5.5 (RHEL 5.5), Red Hat Enterprise Linux Version 6 (RHEL 6)
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. (https://www.equallogic.com/support/Default.aspx)
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
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