

Integrating vSphere with Dell EqualLogic PS Series Storage

Code:	971-6447
Length:	2 days
URL:	View Online

This 2-day course is designed to help you understand how to effectively use PS Series Storage in VMware environments and implement VMware integration tools including Virtual Storage Manager for VMware (VSM/VE) in order to build an efficient and fully optimized storage environment. Discussions on design considerations when deploying PS Series Storage in a vSphere environment are supplemented with hands-on exercises in order to provide practical knowledge and real-world experience prior to deploying in a live environment, resulting in less downtime.

Skills Gained

You will learn:

- The key components of the vSphere environment that interact with the EqualLogic SAN environment
- The setup requirements for using iSCSI volumes on ESX servers
- How to create and present PS Series volumes to Guest VMs
- How to install the Multipath Extension Module (MEM)
- How to use the PS Series data protection features in a VMware environment
- How the Dell EqualLogic Host Integration Tools for VMware are used
- How Dell EqualLogic Virtual Storage Manager for VMware is used to: Protect and recover VMs, Manage Datastores, Deploy VDI desktops, Configure VASA
- vSphere API for Array Integration (VAAI)

Who Can Benefit

- Storage Administrators
- IT Professionals
- Technical Support

Prerequisites

Suggested:

- Course: Dell EqualLogic PS Series Advanced Management and Data Protection Tools

Course Details

Module 1: vSphere and Dell EqualLogic Storage Interoperability Overview

- Review Dell EqualLogic storage
- Review vSphere components: Virtual Storage Manager (VSM), vSphere API for Array Integration (VAAI) functionality

Module 2: VMware MPIO and Multipath Extension Module (MEM)

- Configure ESX to use PS Series Volumes
- Requirements for PS Series volumes to be used by ESX servers in a vSphere Datacenter
- MPIO requirements and configuration
- Configuration settings that must be performed on ESX servers to use PS Series volumes as Datastores

Module 3: Dell EqualLogic Virtual Storage Manager (VSM)

- Discuss requirements, capabilities and how to install a VSM
- Configuring vSphere API for Storage Awareness (VASA)

Module 4: Working with Groups and Data Stores Using Dell EqualLogic Virtual Storage Manager (VSM)

- Groups Menu and functionality in VSM
- Datastore Menu and functionality in VSM
- Demonstrate the creation, resizing and removal of data stores using VSM
- Adding PS groups to VSM for management

Module 5: Guest Attached Volumes

- Providing Storage to Virtual Machines
- Methods for attaching volumes to Guest Operating Systems
- Advantages and disadvantages of using the iSCSI initiator inside a guest OS
- Advantages and disadvantages of using VMFS based virtual disks for data volumes
- Advantages and disadvantages of using RDMS initiator inside a guest OS

Module 6: Working with Smart Copies in VSM

- Describe VSM Smart Copies
- Protection of VMs by making Smart Copies
- Methods of recovery for virtual machines from Smart Copies

Module 7: Working with Smart Copy Replication in VSM

- Configuring replication partners
- Replicating datastores
- Recovery methods with VSM

Module 8: Working with Virtual Desktop Infrastructure Tool in VSM

- Describe VSM VDI integration
- Demonstrate the VDI deployment process

Module 9: Troubleshooting

- Describe some of the issues that can occur with Host Integration Tools for VMware
 - Describe some troubleshooting tools
 - Demonstrate how to collect diagnostics from the Virtual Storage Manager (VSM)
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