

INTEGRATING DELL™ EQUALLOGIC™ STORAGE WITHIN VMWARE® VIRTUAL INFRASTRUCTURE 3.5 WORKSHOP



Instructor-led training to get you up to speed on your Dell EqualLogic Storage Array.

OVERVIEW

This 2-day workshop provides the opportunity for the student to participate in a hands-on intensive workshop that is focused on the integration of the PS Series Storage in VMware Infrastructure 3 version 3.5 environments. VMware Infrastructure 3 version 3.5 includes VMware's Hypervisor, ESX Server™ 3.5, VirtualCenter Server 2.5, Site Recovery Manager (SRM) and many other features such as VMotion, Distributed Resource Scheduling (DRS), and High Availability (HA).

COURSE DETAILS

Module 1: Brief Dell EqualLogic Solution and Product Overview

- Key characteristics of the PS Series Storage Array
- PS Series Storage Array product family
- Overview of software components

Module 2: Brief Overview of VMware Virtual Infrastructure 3 Components

- Understand the VMware family of products
- Describe the advantages of server virtualization
- Describe the features included in Virtual Infrastructure 3
- Understand the functionality of VMware VMotion, VMware HA (High Availability), VMware SRM (Site Recovery Manager), and VMware DRS (Distributed Resource Scheduling)

Module 3: Configuring PS Series Volumes for use In VMware

- Configure volumes for use with VMware ESX Server and or Virtual Machines
- Understand the access control methods for PS Series Storage volumes

Module 4: Configuring ESX Server to mount iSCSI targets

- Storage Terminology used by ESX Servers
- ESX Server and PS Storage array requirements
- iSCSI LUNS discovery
- Network configuration requirements for using the SW Initiator on an ESX Server
- Network configuration requirements for using a HW Initiator on an ESX Server

Lab Exercise - 1

Module 5: Using Guest attached Data Volumes

- Accessing PS Series Volumes from the Guest OS
- Describe the Dell EqualLogic Host Integration Tools for Microsoft® Windows®
- Benefits of Guest SW initiator

Lab Exercise - 2

Module 6: PS series Data Protection Features

- Advantages of using Dell EqualLogic snapshots, clones & replication with VMware Infrastructure 3.x
- Difference between Dell Equallogic hardware snapshots and VMware snapshots
- Configuration settings required to use snapshots, clones or replicas as VMware Datastores
- Use the New Virtual Machine Wizard to create a VM from a Snapshot, clone or replica

Lab Exercises - 3 & 4

Module 7: PS Series Replication and VMware Site Recovery Manager

- Review PS Series Replication features
- VMware SRM features and requirements
- Use SRM and PS Series Replication to test and deploy a Disaster Recovery solution

Lab Exercise - 5

Module 8: Configuring Virtual Center for VMotion

- Advantages of VMotion
- Network and system requirement for VMotion
- Use Virtual Center to VMotion a Virtual Machine

Lab Exercise - 6

Module 9: Troubleshooting, Design, and Best Practices Considerations

- Use command line tools for troubleshooting
- Design considerations
- Review common issues

Lab Exercise - 7

YOU WILL LEARN TO:

- Identify key characteristics and advantages of using the PS Series Storage Array in a VMware environment
- Describe and define the Virtual Infrastructure Components and how they interact with PS Series Storage Arrays
- Describe and then create PS Series Volumes for use with Virtual Machines on ESX Server 3.x
- Describe and then create PS Series snapshots for backing up Virtual Machines and virtual machine volumes
- Describe and then create PS Series Replication for Disaster Recovery of Virtual Machines
- Define and describe where PS Series Storage Array fits within the Virtual Center 2.5 feature set
- Define and describe the requirements for running VMotion
- Perform creation and configuration of VMFS file systems on PS series group
- Perform VMotion of live Virtual Machines that reside on PS Series Volumes
- Identify and perform key system troubleshooting steps
- Review design considerations and best practices when using the PS Series Storage Array in VMware environment

FEATURES	INTEGRATING DELL EQUALLOGIC STORAGE WITHIN VMWARE VIRTUAL INFRASTRUCTURE 3 WORKSHOP
Type of Course	Instructor-led workshop with hands-on labs
Class Length	2 day
Number of Students Per Class	Up to 12
Who Should Attend	<ul style="list-style-type: none">• System administrators• Systems engineers• Technical end users• Storage administrators• Technical support
Skill Level	Basic to intermediate
Suggested Prerequisites	<p>The following Dell EqualLogic prerequisite courses are required before attending this course:</p> <ul style="list-style-type: none">• PS Series Storage – Basic Operations and Administration• PS Series Storage – Advanced Features <p>The following prerequisite knowledge is desired before attending this course.</p> <ul style="list-style-type: none">• Storage Area Networks• Storage Network Protocols – iSCSI, SCSI, etc.• Local Area Network Protocols – Gigabit Ethernet• Internet Protocols• Solid understanding of PS Series as well as investigating server virtualization with VMware ESX Server 3.x and Virtual Center 2.0

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