

VMware Site Recovery Manager: Install, Configure, Manage [V6.1]

Duration: 2 Days

Course Overview:

This two-day, hands-on training course gives experienced VMware vSphere® administrators the how to knowledge to install, configure, and manage VMware Site Recovery Manager™ 6.1. This course also shows you write and test disaster recovery plans that use Site Recovery Manager.

Objectives: By the end of the course, you should be able to meet the following objectives:

- Summarize the components of Site Recovery Manager architecture
- Install Site Recovery Manager software
- Describe the principal disaster recovery topologies that are used with Site Recovery Manager
- Configure inventory and resource mappings
- Describe the storage replication options that are used with Site Recovery Manager
- Describe VMware vSphere® Replication™ functionality
- Describe the vSphere Replication architecture
- Deploy and configure vSphere Replication for use with Site Recovery Manager
- Build Site Recovery Manager protection groups based on vSphere Replication
- Build, edit, execute, test, and remove a recovery plan
- Perform a planned migration
- Perform reprotect and failback using Site Recovery Manager and vSphere Replication

Product Alignment

- VMware vCenter™ Site Recovery Manager™ [V6.0]
- VMware Site Recovery Manager [V6.1]

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Intended Audience:

vSphere administrators, architects, system engineers, and systems integrators who are responsible for the deployment or management of Site Recovery Manager

Prerequisites: This class requires completion of one of the following courses:

- VMware vSphere: Install, Configure, manage [V6]
 - VMware vSphere: Fast Track [V6]
 - VMware vSphere: What's New [V5.5 to V6]
 - VMware vSphere: Troubleshooting Workshop [V5.5]
- Or equivalent knowledge and administration experience with VMware ESXi™ and VMware vCenter Server™.

Course Outline

1 Course Introduction

- Outline the necessary information to effectively undertake this course
- Identify resources for additional information
- Outline an overview of Site Recovery Manager

2 Overview and Architecture

- Examine disaster recovery options with Site Recovery Manager
- Describe Site Recovery Manager integration with VMware vSphere® Web Client
- Discuss Site Recovery Manager features
- Analyze Site Recovery Manager storage policies and integration options
- Discuss how Site Recovery Manager supports several disaster recovery topologies
- Identify use cases for Site Recovery Manager across various scenarios
- Compare disaster recovery with VMware vCloud® Air™ and Site Recovery Manager

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3 Installing Site Recovery Manager

- Identify the necessary components to deploy and use Site Recovery Manager
- Describe prerequisites for installing a Site Recovery Manager server and the associated database
- Describe prerequisites for the Site Recovery Manager database
- Discuss requirements for VMware ESXi™ hosts and virtual machines with which Site Recovery Manager operates
- Install the Site Recovery Manager software
- Describe the Site Recovery Manager site-pairing process
- Define the credentials required for Site Recovery Manager site pairing

4 Configuring Inventory Mappings

- Outline the importance of inventory mappings
- Examine configuration options for inventory mappings
- Outline the importance of placeholders

5 Storage Replication

- Describe array-based replication
- Describe vSphere Replication
- Compare Site Recovery Manager storage replication options

6 Deploying Replication

- Describe storage replication adapters
- Describe the process for adding an array manager in Site Recovery Manager
- Explore vSphere Replication architecture
- Examine vSphere Replication functionality
- Formulate use cases for vSphere Replication
- Deploy a vSphere Replication appliance
- Configure vSphere Replication appliance settings
- Configure a vSphere Replication appliance connection

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- Deploy a vSphere Replication server
- Register a vSphere Replication server

7 Configuring vSphere Replication

- Configure vSphere Replication for virtual machines
- Explain the importance of data store mappings
- Describe vSphere Replication recovery point objective scheduling
- Describe the vSphere Replication disk transfer protocol

8 Building Protection Groups

- Define protection group functionality
- Examine the differences between array-based protection group, protection groups based on vSphere Replication, and storage profile protection groups
- Create a protection group
- Discuss protection group settings
- Remove protection from a virtual machine
- Create a storage profile protection group

9 Building Recovery Plans

- Discuss recovery plan concepts
- List recovery plan steps
- Discuss network planning
- Discuss customization options in recovery planning
- Recognize Site Recovery Manager alarm options
- Outline how to implement a recovery plan
- Investigate recovery plan options
- Describe the customization of recovery plans

10 Testing and Running a Recovery Plan

- Discuss use cases for Site Recovery Manager
- Describe planned migration
- Identify Site Recovery Manager workflows

- Discuss the importance of VMware vSphere® VMFS resignaturing
- Examine Site Recovery Manager integration with various vSphere technologies
- Outline how to conduct a recovery plan test
- Perform recovery plan test execution
- Identify the effects on the storage layer during recovery steps
- Review recovery plan reports
- Explain a recovery plan execution in planned migration or disaster recovery mode
- Understand storage layer changes for plan execution types
- Identify the recovery steps for each execution type
- Describe how to reprotect a data center
- Examine failback steps

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