

**VMware Site Recovery Manager: Install, Configure, Manage**

**Course Number:** VM-108
**Duration:** 2 days

**Overview**

This VMware Site Recovery Manager training course teaches experienced VMware vSphere® administrators how to install, configure, and manage VMware Site Recovery Manager™ 8.2. Attendees learn how to write and test disaster recovery plans that use Site Recovery Manager. Note: This course is based on beta software.

**Prerequisites**

All students should have taken the [VMware vSphere: Install, Configure, Manage](file:////training/vmware-vsphere-install-configure-manage) course or have the equivalent knowledge.

**Materials**

All attendees receive the official VMware courseware for this course.

**Software Needed on Each Student PC**

A modern web browser and an Internet connection free of restrictive firewalls so that the student can connect by SSH and Remote Desktop (RDP) into the virtual environment for the training.

**Objectives**

* Summarize the components of Site Recovery Manager architecture
* Deploy and configure the Site Recovery Manager appliance
* 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
* Configure Site Recovery Manager to leverage array-based replication
* 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

**Outline**

* Overview and Architecture
	+ Discuss Site Recovery Manager architecture
	+ Examine disaster recovery options with Site Recovery Manager
	+ Describe Site Recovery Manager integration with VMware vSphere
	+ 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
	+ Describe how VMware Site Recovery
* Deploy and Configure Site Recovery Manager
	+ Identify the requirements to deploy Site Recovery Manager
	+ Discuss the benefits of the Site Recovery Manager appliance
	+ Explore vSphere deployment models
	+ Deploy the Site Recovery Manager appliance
	+ Navigate the Site Recovery Manager configuration user interface
	+ Describe the process to register Site Recovery Manager with VMware vCenter Server
	+ Configure site pairing
	+ Identify how to perform updates to the Site Recovery Manager appliance
* Configuring Inventory Mappings
	+ Outline the importance of inventory mappings
	+ Examine configuration options for inventory mappings
	+ Outline the importance of placeholders
* Using Array-based Replication
	+ Describe array-based replication
	+ Discuss the role of the Storage Replication Adapter (SRA)
	+ Explore the relationship between devices, consistency groups, and datastore groups
	+ Configure array pairs
* vSphere Replication
	+ 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
	+ Deploy a vSphere Replication server
	+ Register a vSphere Replication server
* Replicating Virtual Machines with vSphere Replication
	+ Configure vSphere Replication for virtual machines
	+ Explain the importance of datastore mappings
	+ Describe vSphere Replication recovery point objective scheduling
	+ Describe the vSphere Replication disk transfer protocol
* Building Protection Groups
	+ Define protection group functionality
	+ Examine the differences between array-based protection groups, 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
* Building Recovery Plans
	+ Discuss recovery plan concepts
	+ List recovery plan steps
	+ Discuss network planning
	+ Discuss customization options in recovery planning
	+ Outline how to implement a recovery plan
	+ Investigate recovery plan options
* 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
	+ 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
	+ 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
* Monitoring and Troubleshooting
	+ Discuss Site Recovery Manager alarms
	+ Explore Site Recovery Manager history reports
	+ Configuring advanced Site Recovery Manager settings
	+ Describe how to modify logging levels
	+ Explain how to collect log bundles
	+ Identify key log locations
* Conclusion