

**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