

# VMware Site Recovery Manager: Install, Configure, Manage



## Course Description

This two-day, hands-on training course gives experienced VMware vSphere® administrators the knowledge to install, configure, and manage VMware Site Recovery Manager™ 8.2. This course also shows you how to write and test disaster recovery plans that use Site Recovery Manager.

## Course Duration:

2 days

## Prerequisites:

This class requires completion of one of the following courses:

- VMware vSphere: Install, Configure, Manage [V6.x]
- VMware vSphere: Fast Track [V6.x]
- VMware vSphere: What's New [V5.5 to V6.x]
- VMware vSphere: Troubleshooting Workshop [V6.x]

Or equivalent knowledge and administration experience with VMware ESXi™ and VMware vCenter Server™.

## Objectives:

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

## Course Outline:

1. Course Introduction
  - Outline the necessary information to effectively undertake this course
  - Identify resources for additional information
2. Overview and Architecture
  - Discuss Site Recovery Manager architecture
  - Examine disaster recovery options with Site Recovery Manager
  - Describe Site Recovery Manager integration with VMware vSphere® 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
  - Describe how VMware Site Recovery™ for VMware Cloud™ on AWS integrates with Site Recovery Manager.
3. Deploy & 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
  4. Configuring Inventory Mappings
    - Outline the importance of inventory mappings
    - Examine configuration options for inventory mappings
    - Outline the importance of placeholders
  5. 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
  6. 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
  7. 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
  8. 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
  9. 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

#### 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
- 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

#### 11. 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

## Who Should Attend

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