

VMware Site Recovery Manager 6.1

Automated Application Availability and Mobility for Private Cloud Environments

AT A GLANCE

VMware Site Recovery Manager™ is the industry-leading solution to enable application availability and mobility across sites in private cloud environments. Site Recovery Manager is an automation software that integrates with an underlying replication technology to provide policy-based management, non-disruptive testing, and automated orchestration of recovery plans. This provides simple and reliable recovery and mobility of virtual machines between sites with minimal or no downtime.

KEY BENEFITS

- Use for multiple use cases, such as disaster recovery (DR), disaster avoidance, data center migration and other.
- Perform frequent non-disruptive testing to ensure predictable recovery objectives.
- Reduce recovery time to minutes with reliability using automated failover and failback workflows.
- Achieve zero-downtime application mobility by orchestrating live migration of virtual machines at scale across sites.
- Lower the total cost of ownership for DR by up to 50%.

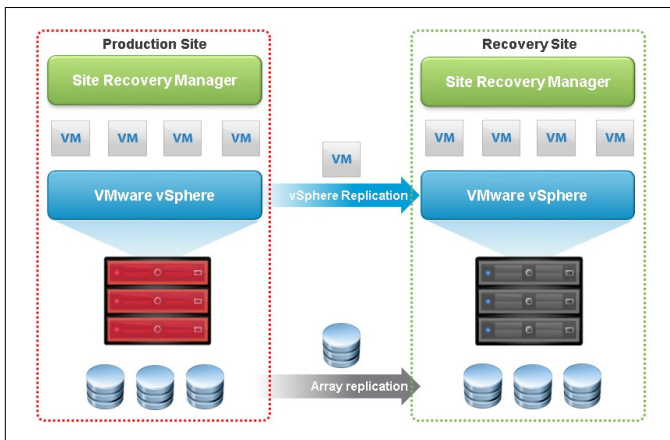


Figure 1. Site Recovery Manager automates the failover and migration of virtual machines to a secondary site. Site Recovery Manager relies on either vSphere Replication or a broad range of storage-based replication products to replicate virtual machines to the recovery site.

What Is Site Recovery Manager?

VMware Site Recovery Manager is an automation software that integrates with an underlying replication technology to provide policy-based management, non-disruptive testing, and automated orchestration of recovery plans. To deliver flexibility and choice, it integrates natively with VMware vSphere® Replication™ and also supports a broad range of array-based replication solutions available from all major VMware storage partners.

Site Recovery Manager natively leverages the benefits of VMware vSphere and can also take advantage of the Software-Defined Data Center (SDDC) architecture, integrating with other VMware solutions, such as [VMware NSX™](#) (network virtualization) and [VMware Virtual SAN™](#) (hyper-converged software-defined storage).

By allowing users to test and automate the migration of applications between sites with minimal or no downtime, Site Recovery Manager fulfills the needs for a variety of use cases, such as disaster recovery, disaster avoidance, planned data center migrations, site-level load balancing, or even application maintenance testing.

Site Recovery Manager ensures fast and highly predictable recovery times, simplifies management through automation, and minimizes the total cost of ownership, making it the industry-leading solution to enable application availability and mobility across sites in private cloud environments.

What Else Do You Need?

Site Recovery Manager requires an underlying replication technology to orchestrate recovery operations of protected virtual machines.

- vSphere Replication. Hypervisor-based replication with customizable recovery point objective and multiple point-in-time recovery. Natively integrated with Site Recovery Manager and included with most vSphere editions. [Learn more](#)
- Third-party solutions. Site Recovery Manager uses Storage Replication Adapters ([compatibility guide](#)) developed by storage partners to integrate with array-based replication solutions and stretched storage solutions.

Key Features and Capabilities

Traditional DR solutions that rely on manual processes often fail to meet business requirements because they are too expensive, complex and unreliable. Organizations using Site Recovery Manager obtain the following features and benefits.

Fast and Reliable recovery

Site Recovery Manager automates every aspect of executing a

recovery plan in order to accelerate recovery and eliminate the risks involved with manual processes

- **Non-disruptive recovery testing** – perform automated failover testing as frequently as needed in an isolated network to avoid impact to production applications and ensure regulatory compliance through detailed reports.
- **Automated orchestration workflows** – perform a DR failover or a planned migration, and failback recovered virtual machines to the original site, all executing the same recovery plan with a single click.
- **Automated recovery of network and security settings** – Site Recovery Manager integrates with VMware NSX, eliminating the need to re-configure IP addresses on recovered virtual machines. Security policies are also preserved, further reducing configurations post-recovery.
- **Extensibility for custom automation** – use the VMware vRealize™ Orchestrator™ plug-in for Site Recovery Manager to build custom automation workflows. Pre-built workflows simplify the process to get you started with custom workflow creation.

Zero-Downtime Application Mobility

Site Recovery Manager can enable live migration of applications between two sites when using a certified stretched solution. See the [compatibility guide](#)

- **Orchestrated cross-vCenter vMotion** – use recovery plans to orchestrate cross-vCenter™ vMotion® operations at scale when using stretched storage. Perform zero-downtime disaster avoidance and data center migrations.
- **Stretched storage support** – leverage these solutions that combine synchronous replication with array-based clustering in metropolitan distances Site Recovery Manager also integrates with a broad range of replication solutions, allowing organizations to flexibly tailor topologies and recovery point objectives (RPO)
 - **vSphere Replication** – virtual machine replication that enables heterogenous storage topologies, with flexible recovery point objective. Replication engine for Virtual SAN
 - **Array-based replication support** – allows customers to use current storage investments and offers options for zero data loss through synchronous replication. See [compatibility guide](#)

Simple and policy-based management

From the initial setup to the on-going management, Site Recovery Manager delivers simple and policy-based operations thanks to automation and integration with SDDC technology.

- **Centralized recovery plans** – Create and manage recovery plans for thousands of virtual machines directly from the vSphere Web Client.

- **Policy-based management** – “storage-profile” protection groups identify protected datastores and automate the process of protecting and unprotecting virtual machines and adding and removing datastores from protection groups.
- **Automated network mappings** – use VMware NSX logical switches to automatically map network settings across the two sites when creating a recovery plan.
- **Self-service provisioning** – allow application tenants to provision disaster recovery protection using blueprints in VMware vRealize Automation™.

Up to 50% lower TCO

Site Recovery Manager can dramatically lower the total cost of ownership (TCO) through management and testing automation that eliminates the complexity of manual processes, while enabling the use of technology that lower capital expense for recovery infrastructure. These calculations were validated by a third-party global research firm. [Read the complete study.](#)

How to Buy

Site Recovery Manager is available in two editions to help you protect your environment according to business needs. [Learn more](#)

Both editions of Site Recovery Manager are licensed “per protected virtual machine”.

Site Recovery Manager Enterprise can also be licensed “per protected CPU” as part of the VMware vCloud Suite® Enterprise. [Learn more](#)

SRM STANDARD	SRM ENTERPRISE
Licensing	
Up to 75 protected VMs per site	No licensing limitation on the number of protected VMs
Features	
	Exclusive features: <ul style="list-style-type: none"> • VMware NSX integration • Orchestrated cross-vCenter vMotion • Stretched storage support • Storage policy-based management

Learn more

For more information or to purchase VMware products, call 877- 4 -VMWARE (outside North America, +1-650 -427-5000), visit <http://www.vmware.com/products>, or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the vSphere documentation.

