



# **Configure storage system for disaster recovery**

ONTAP tools for VMware vSphere 10.1

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# Table of Contents

- Configure storage system for disaster recovery ..... 1
- Configure SRA for SAN and NAS environments ..... 1
- Configure SRA for highly scaled environment ..... 2

# Configure storage system for disaster recovery

## Configure SRA for SAN and NAS environments

You should set up the storage systems before running Storage Replication Adapter (SRA) for Site Recovery Manager (SRM).

### Configure SRA for SAN environment

#### What you will need

You should have the following programs installed on the protected site and the recovery site:

- SRM

Documentation about installing SRM is on the VMware site.

[VMware Site Recovery Manager Documentation](#)

- SRA

The adapter is installed either on SRM.

#### Steps

1. Verify that the primary ESXi hosts are connected to the LUNs in the primary storage system on the protected site.
2. Verify that the LUNS are in igroups that have the `ostype` option set to *VMware* on the primary storage system.
3. Verify that the ESXi hosts at the recovery site have appropriate iSCSI connectivity to the storage virtual machine (SVM). The secondary site ESXi hosts should have access to the secondary site storage, similarly the primary site ESXi hosts should have access to the primary site storage.

You can do this either by verifying that the ESXi hosts have local LUNs connected on the SVM or the `iscsi show initiators` command on the SVMs. Check the LUN access for the mapped LUNs in the ESXi host to verify iSCSI connectivity.

### Configure SRA for NAS environment

#### What you will need

You should have the following programs installed on the protected site and the recovery site:

- SRM

Documentation about installing SRM can be found on the VMware site.

[VMware Site Recovery Manager Documentation](#)

- SRA

The adapter is installed on SRM and the SRA server.

## Steps

1. Verify that the datastores at the protected site contain virtual machines that are registered with vCenter Server.
2. Verify that the ESXi hosts at the protected site have mounted the NFS exports volumes from the storage virtual machine (SVM).
3. Verify that valid addresses such as the IP address, host name, or FQDN on which the NFS exports are present are specified in the **NFS Addresses** field when using the Array Manager wizard to add arrays to SRM.
4. Use the `ping` command on each ESXi host at the recovery site to verify that the host has a VMkernel port that can access the IP addresses that are used to serve NFS exports from the SVM.

## Configure SRA for highly scaled environment

You should configure the storage timeout intervals per the recommended settings for Storage Replication Adapter (SRA) to perform optimally in highly scaled environments.

### Storage Provider settings

You should set the following timeout values on SRM for scaled environment:

| Advanced settings                                 | Timeout values   |
|---|--|
| <code>StorageProvider.resignatureTimeout</code>   | Increase the value of the setting from 900 seconds to 12000 seconds. |
| <code>storageProvider.hostRescanDelaySec</code>   | 60   |
| <code>storageProvider.hostRescanRepeatCnt</code>  | 20   |
| <code>storageProvider.hostRescanTimeoutSec</code> | Set a high value (For example: 99999)                                |

You should also enable the `StorageProvider.autoResignatureMode` option.

See VMware documentation for more information on modifying Storage Provider settings.

[VMware vSphere Documentation: Change Storage Provider Settings](#)

### Storage settings

When you hit a timeout, increase the values of `storage.commandTimeout` and `storage.maxConcurrentCommandCnt` to a higher value.



The timeout interval specified is the maximum value. You do not need to wait for the maximum timeout to be reached. Most commands finish within the set maximum timeout interval.

VMware documentation on modifying SAN Provider settings has more information.

[VMware Site Recovery Manager Documentation: Change Storage Settings](#)

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