



Preface

This document explains how to install Cisco Security Management Suite (Security Manager) in a high availability (HA) or disaster recovery (DR) environment. The Security Manager HA/DR solution is based on Symantec's Veritas Storage Foundation and High Availability solutions.

For the steps to install Security Manager in a VMware based high availability (HA) or disaster recovery (DR) environment, see [High Availability and Disaster Recovery in Virtual Machines](#).

Audience

The primary audience for this guide is system administrators who are responsible for installing and managing the HA/DR solutions. This guide assumes that you are familiar with the topics in [Table 1](#).

Table 1 **Topics in this Guide**

Configuration	Topics
Local Redundancy	<ul style="list-style-type: none">• Cisco Security Management Suite• Microsoft Windows Server 2012, Standard and Datacenter Edition, or Microsoft Windows Server 2012 R2, Standard and Datacenter Edition• Symantec Veritas Storage Foundation HA for Windows 6.0.1, 6.0.2 or 6.1

Table 1 *Topics in this Guide (continued)*

Configuration	Topics
Geographic Redundancy	<ul style="list-style-type: none"> • Cisco Security Management Suite • Microsoft Windows Server 2012, Standard and Datacenter Edition, or Microsoft Windows Server 2012 R2, Standard and Datacenter Edition • Symantec Veritas Storage Foundation HA/DR for Windows 6.0.1, 6.0.2, or 6.1 • Symantec Veritas Volume Replicator Option
Geographic Redundancy without Clustering	<ul style="list-style-type: none"> • Cisco Security Management Suite • Microsoft Windows Server 2012, Standard and Datacenter Edition, or Microsoft Windows Server 2012 R2, Standard and Datacenter Edition • Symantec Veritas Storage Foundation Basic for Windows 6.0.1, 6.0.2, or 6.1 • Symantec Veritas Volume Replicator Option

Because the Security Manager HA/DR solution utilizes Symantec’s Veritas Storage Foundation and High Availability Solutions for Windows, we highly recommend the following Symantec courses for a local redundancy solution:

- Veritas Storage Foundation for Windows
- Veritas Cluster Server for Windows

For a geographically redundant solution, the following additional courses are highly recommended:

- Veritas Volume Replicator for Windows
- Disaster Recovery Using Veritas Volume Replicator and Global Cluster Option for Windows

For more information, please refer to the Symantec website.

Conventions

This document uses the following conventions:

Item	Convention
Commands, keywords, special terminology, and options that should be selected during procedures	boldface font
Variables for which you supply values and new or important terminology	<i>italic font</i>
Displayed session and system information, paths and file names	<code>screen font</code>
Information you enter	boldface screen font
Variables you enter	<i>italic screen font</i>
Menu items and button names	boldface font
Indicates menu items to select, in the order you select them.	Option > Network Preferences

**Tip**

Identifies information to help you get the most benefit from your product.

**Note**

Means *reader take note*. Notes identify important information that you should reflect upon before continuing, contain helpful suggestions, or provide references to materials not contained in the document.

**Caution**

Means *reader be careful*. In this situation, you might do something that could result in equipment damage, loss of data, or a potential breach in your network security.

**Warning**

Identifies information that you must heed to prevent damaging yourself, the state of software, or equipment. Warnings identify definite security breaches that will result if the information presented is not followed carefully.

Related Documentation

Refer to the following Cisco publications for additional information. These documents are available at <http://www.cisco.com/c/en/us/support/security/security-manager/tsd-products-support-series-home.html>.

- *Installation Guide for Cisco Security Manager 4.11*
- *User Guide for Cisco Security Manager 4.11*
- *Release Notes for Cisco Security Manager 4.11*

Refer to the following Symantec publications for additional information concerning Veritas Storage Foundation:

- *Veritas Storage Foundation™ and High Availability Solutions Getting Started Guide*
- *Veritas Storage Foundation™ and High Availability Solutions Release Notes*
- *Veritas Storage Foundation™ and High Availability Solutions Installation and Upgrade Guide*
- *Veritas Storage Foundation™ Administrator's Guide*
- *Veritas™ Cluster Server Release Notes*
- *Veritas™ Cluster Server Installation and Upgrade Guide*
- *Veritas™ Cluster Server Bundled Agents Reference Guide*
- *Veritas™ Cluster Server Administrator's Guide*
- *Veritas™ Volume Replicator Administrator's Guide*
- *Veritas™ Volume Replicator Advisor User's Guide*
- *Hardware Compatibility List (HCL) for Veritas Storage Foundation™ and High Availability Solutions for Windows*
- *Software Compatibility List (SCL) for Veritas Storage Foundation™ and High Availability Solutions for Windows*

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.