

Veritas™ Cluster Server for NetApp SnapMirror Getting Started Guide

Windows 2000, Windows Server 2003

5.0

Veritas Cluster Server for NetApp SnapMirror Getting Started Guide

Copyright © 2007 Symantec Corporation. All rights reserved.

Veritas Cluster Server 5.0 for NetApp SnapMirror

Symantec, the Symantec logo, Veritas, and Veritas Storage Foundation are trademarks or registered trademarks of Symantec Corporation or its affiliates in the U.S. and other countries. Other names may be trademarks of their respective owners.

The product described in this document is distributed under licenses restricting its use, copying, distribution, and decompilation/reverse engineering. No part of this document may be reproduced in any form by any means without prior written authorization of Symantec Corporation and its licensors, if any.

THIS DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID, SYMANTEC CORPORATION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE FURNISHING PERFORMANCE, OR USE OF THIS DOCUMENTATION. THE INFORMATION CONTAINED IN THIS DOCUMENTATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

The Licensed Software and Documentation are deemed to be "commercial computer software" and "commercial computer software documentation" as defined in FAR Sections 12.212 and DFARS Section 227.7202.

Symantec Corporation
20330 Stevens Creek Blvd.
Cupertino, CA 95014
www.symantec.com

Third-party legal notices

Third-party software may be recommended, distributed, embedded, or bundled with this Symantec product. Such third-party software is licensed separately by its copyright holder. All third-party copyrights associated with this product are listed in the accompanying release notes.

Windows is a registered trademark of Microsoft Corporation.

Licensing and registration

Veritas Cluster Server for NetApp SnapMirror is a licensed product. See the installation and configuration guide for license installation instructions.

Technical support

For technical assistance, visit <http://entsupport.symantec.com> and select phone or email support. Use the Knowledge Base search feature to access resources such as TechNotes, product alerts, software downloads, hardware compatibility lists, and our customer email notification service.

Getting Started with Veritas Cluster Server for NetApp SnapMirror

Introduction

This Getting Started Guide provides an overview of the licensing, documentation, and installation of the Veritas Cluster Server 5.0 for Network Appliance SnapMirror.

Topics in this guide are:

- [“What’s included”](#)
- [“About Veritas Cluster Server for NetApp SnapMirror”](#)
- [“Symantec Licensing Portal”](#)
- [“Installation Requirements”](#)
- [“What’s new in this version”](#)
- [“Getting Help”](#)
- [“Operating system requirements”](#)
- [“Documentation”](#)
- [“Late-breaking news”](#)

What's included

The Veritas Storage Foundation and High Availability Solutions media kit includes multiple software discs. The disc label describes the contents of each disc.

Table 1-1 Media kit contents

Veritas disc	Contents
Veritas Cluster Server 5.0 for Network Appliance SnapMirror	Available in 32-bit only.
Veritas Cluster Management Console for Windows	32-bit and 64-bit versions of Cluster Management Console.

Note: If you wish to assess products and options for which you have not purchased a license, an evaluation license key is embedded in the product. To use this key click Next at the license key entry screen of the product installer. This license key is valid for a limited evaluation period only.

About Veritas Cluster Server for NetApp SnapMirror

Veritas Cluster Server for NetApp SnapMirror contains the following components:

Veritas Cluster Server (VCS)

Veritas Cluster Server provides the high availability component. A cluster connects multiple independent systems to provide fault tolerance and failover capability thus reducing application downtime. VCS supports local and global clusters. VCS for NetApp combines VCS with NetApp's storage systems to provide transparent server, application and data failover.

Graphical user interfaces

Veritas Cluster Server for NetApp SnapMirror offers several GUIs:

Cluster Management Console (CMC)

The Cluster Management Console allows you to monitor, manage, and report on multiple VCS clusters from a single Web-based console. CMC provides enhanced visualization of the managed clusters, centralized control for global applications, and complete reports of each application's availability status.

Cluster Manager (Java Console)

Cluster Manager (Java Console) offers complete administration capabilities for your cluster. You can use the different views in the Java Console to monitor clusters and VCS objects, including service groups, systems, resources, and resource types.

Planning Tools

Cluster Simulator

Cluster Simulator allows cluster administrators to simulate and test application failover scenarios without affecting production environments.

Symantec Licensing Portal

To register and receive a valid software license key, access the Symantec Licensing Portal at <https://licensing.symantec.com>. You will need the Enterprise License System (ELS) serial number and customer number on your license certificate.

The Symantec Licensing Portal provides access to the following tools for registering and managing license keys:

- **License Management:** Register and manage product and maintenance licenses.
- **Version Upgrades:** Register your upgrade notification and receive new version keys.
- **Voucher Center:** Redeem vouchers created by Symantec business partners. A voucher typically entitles a customer to a specific Symantec software product.
- **FileConnect:** Download enterprise products as soon as they are available and request physical media shipments for version upgrades.
- **Enterprise Flex:** Deploy licenses on demand across a variety of Symantec products.
- **LKWeb (for use by Symantec business partners):** Create and register licenses prior to resale of Symantec products.

For additional help with Symantec product licenses, email questions to license@symantec.com.

Installation Requirements

The product installer enables you to install the software for Veritas Cluster Server for NetApp SnapMirror. You may select the desired applicable options during the installation.

If you wish to assess products and options for which you have not purchased a license, an evaluation license key is embedded in the product. To use this key click Next at the license key entry screen of the product installer. This license key is valid for a limited evaluation period only.

Installation options

During the product installation you choose an installation option, either Complete/Custom or Administrative Console.

- Complete/Custom installs the server components and allows you to customize the installation by choosing to install the client components, documentation, and other product options
- Administrative Console installs only the VCS Cluster Manager (Java console).

Installation methods

You can choose either method to install the product using either the wizard-driven product installer or silently from the command line. The product installer allows you to install to multiple systems simultaneously. A command line installation is limited to one local or remote system at a time.

What's new in this version

Veritas Cluster Server 5.0 for NetApp SnapMirror contains and builds upon version 4.3 functionality. A description of the new features in this version is available in the *Veritas Cluster Server for NetApp SnapMirror Release Notes* which can be found on the product disc or online at <http://entsupport.symantec.com/docs/285845>

Getting Help

If an issue arises while you are using VCS for NetApp, use the following information to pinpoint the problem and, if necessary, report it to Symantec.

For technical assistance, visit <http://entsupport.symantec.com/> and select phone or email support. This site also provides access to resources such as TechNotes, product alerts, software downloads, hardware compatibility lists, and the Symantec customer email notification service. Use the Knowledge Base Search feature to access additional product information, including current and past releases of product documentation.

System requirements

VCS for NetApp SnapMirror has client and server components that run on specific Windows operating systems.

Software for servers

Your server must run one of the following operating systems:

- Windows 2000 Server, Windows 2000 Advanced Server, or Windows 2000 Datacenter Server (all require Service Pack 4 with Update Rollup1).
- Windows Server 2003 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition (SP 1 required for all editions)
- Windows Server 2003 R2 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition
- Windows Server 2003 Web Edition: fully supports SFW and supports only file share for SFW HA (SP1 required)

Software for clients

Your client must run one of the following operating systems:

- Windows 2000 Server, Windows 2000 Advanced Server, or Windows 2000 Datacenter Server (all require Service Pack 4 with Update Rollup1)
- Windows Server 2003 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition (SP 1 required for all editions)
- Windows Server 2003 R2 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition
- Windows XP Professional (SP 2 required): supported only for SFW, not SFW HA
- Windows 2000 Professional (SP 4 required): supported only for SFW, not SFW HA

Display resolution

- Minimum required: 800 x 600 pixels
- Recommended: 1024 x 768 pixels or higher

Supported browsers

Veritas Cluster Management Console is supported on the following browsers:

- Microsoft Internet Explorer 6.0 with SP2 or newer
- Firefox 1.5 or newer
- Veritas Cluster Management requires the Macromedia Flash Plugin v8.0.

Documentation

All product documentation is available in Adobe Portable Document Format (PDF).

You can view and print the PDF documents with Adobe Acrobat Reader. For more information on the latest version of Acrobat Reader, or for help with the Acrobat Reader installation, visit the Adobe web site at <http://www.adobe.com>.

Note: The Release Notes file is located on the Veritas product disc. Symantec recommends that you copy the release notes from the disc to the directory `%Program Files%\Veritas\Docs\ENU` so they are available on your system for reference. Updated Release Notes can be found at <http://entsupport.symantec.com/docs/285845>

Where to find the documentation

Product documentation is available from the following locations:

- installed with the product and available from the Start menu.
- the Veritas software discs in the `\Docs` directory and, in some cases, at the root of the disc directory structure. To view a document, explore the software disc and double-click the file name
- the Symantec Support web site at <http://entsupport.symantec.com>.
- contact your salesperson to purchase hard copy software guides

Documentation set

[Table 1-2](#) lists the product documentation available with Veritas Cluster Server for NetApp SnapMirror.

Table 1-2 VCS for NetApp SnapMirror documentation set

Title	File Name
Veritas Cluster Server for NetApp SnapMirror	
<i>Veritas Cluster Server for NetApp SnapMirror Getting Started Guide</i>	VCS_NetApp_GettingStarted.pdf
<i>Veritas Cluster Server for NetApp SnapMirror 5.0 Release Notes</i>	VCS_NetApp_ReleaseNotes.pdf

Table 1-2 VCS for NetApp SnapMirror documentation set (Continued)

Title	File Name
<i>Veritas Cluster Server for NetApp SnapMirror Installation and Configuration Guide for Microsoft Exchange</i>	VCS_NetApp-Exch.pdf
<i>Veritas Cluster Server for NetApp SnapMirror Installation and Configuration Guide for Microsoft SQL</i>	VCS_NetApp-SQL.pdf
Veritas Cluster Server	
<i>Veritas Cluster Server 5.0 Administrator's Guide</i>	VCS_Admin.pdf
<i>Veritas Cluster Server 5.0 Agent Developer's Guide</i>	VCS_AgentDev.pdf
<i>Veritas Cluster Server 5.0 Bundled Agents Reference Guide</i>	VCS_BundledAgents.pdf
Veritas Cluster Management Console	
<i>Veritas Cluster Management Console 5.0 Implementation Guide</i>	VCMC_Implementation.pdf
<i>Veritas Cluster Management Console 5.0 Release Notes</i>	VCMC_Notes.pdf
Symantec Product Authentication Service	
<i>Veritas Storage Foundation and High Availability Solutions 5.0 Quick Start Guide for Symantec Product Authentication Service</i>	SPAS_QuickStart.pdf
<i>Symantec Product Authentication Service 4.3 Administrator's Guide</i>	SPAS_AT_Admin.pdf
<i>Symantec Product Authentication Service 4.3 Release Notes</i>	SPAS_AT_ReleaseNotes.pdf

Providing feedback about the documentation

Your feedback on product documentation is important to us. Send suggestions for improvements and reports on errors or omissions to sfwha_solns_docs@symantec.com. Include the title and part number of the document (located in the lower left corner of the title page), and chapter and section titles of the text on which you are reporting. Our goal is to ensure customer satisfaction by providing effective, quality documentation.

Late-breaking news

For the latest information on updates, patches, and software issues regarding this release, see the following Symantec Technical Support TechNote:
<http://entsupport.symantec.com/docs/285845>

Before installing or upgrading SFW or SFW HA, review the current compatibility lists to confirm the compatibility of your hardware and software.

<http://entsupport.symantec.com/>