

Veritas™ Cluster Server for NetApp SnapMirror Installation and Configuration Guide for Microsoft Exchange

Windows 2000, Windows Server 2003

5.0

Veritas Cluster Server for NetApp SnapMirror Installation and Configuration Guide for Microsoft Exchange

Copyright © 2007 Symantec Corporation. All rights reserved.

VCS for NetApp SnapMirror 5.0

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

VCS for NetApp SnapMirror is a licensed product. See the Licensing section in this 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.

Contents

Chapter 1	Introduction	
	VCS application agent for Microsoft Exchange	11
	Exchange Service agent	11
	Exchange Protocol agent	13
	VCS enterprise agent for Network Appliance	14
	NetApp Filer agent	14
	NetApp SnapDrive agent	15
	NetApp SnapMirror agent	16
	How the agents make Microsoft Exchange highly available	17
	Local cluster configuration	17
	Disaster recovery configuration	17
	Typical Exchange configurations in a VCS cluster	18
	Active/Passive failover configuration	18
	Any-to-Any failover configuration	19
	Disaster recovery configuration	20
Chapter 2	Installing the software	
	Licensing	21
	Prerequisites	23
	Supported software	23
	System requirements	24
	Software requirements	24
	Configuration requirements	24
	Installing the software using the product installer	25
	Installing the software from the command line	28
	Parameters for Setup.exe	28
	Example for Setup.exe: Client Installation	30
	Example for Setup.exe: Server Installation	30
	Configuring Veritas Cluster Server	31
	Upgrading VCS for Network Appliance SnapMirror	32
	Upgrade scenarios	32
	Performing the pre-upgrade tasks	34
	Upgrading Microsoft Exchange	35
	Performing the post-upgrade tasks	35
	Preparing to upgrade VCS for Network Appliance SnapMirror	36

Upgrading to VCS 5.0 for Network Appliance SnapMirror	37
---	----

Chapter 3 Installing Microsoft Exchange Server

Overview of tasks	41
Prerequisites	42
Privileges requirements	43
Verifying DNS settings for Exchange hosts	44
Configuring Microsoft iSCSI initiator	45
Managing storage using Network Appliance filer	46
Installing Exchange on the first node	47
Exchange pre-installation: first node	47
Exchange Server installation: first node	49
Exchange post-installation: first node	50
Moving Exchange databases to shared storage	51
Installing Exchange on additional nodes	55
Exchange pre-installation: additional nodes	55
Exchange Server installation: additional nodes	57
Exchange post-installation: additional nodes	58

Chapter 4 Configuring the service group

Configuring the service group using the wizard	59
Prerequisites	60
Configuration instructions	60
Running SnapManager for Exchange	67
Verifying the service group configuration	67
Bringing the service group online	67
Taking the service group offline	68
Switching the service group	69
Modifying the service group configuration	70
Prerequisites	70
Instructions	70
Deleting the Exchange service group	71

Chapter 5 Adding a node to an Exchange cluster

Prerequisites	73
Overview of tasks	74
Installing Exchange on additional nodes	75
Exchange pre-installation: additional nodes	75
Exchange Server installation: additional nodes	77
Exchange post-installation: additional nodes	78
Configuring the agent on the new node	79

