

NetApp® Disaster Recovery NAS Adapter 1.4 for VMware® vCenter Site Recovery Manager **Release Notes**

NetApp, Inc.
495 East Java Drive
Sunnyvale, CA 94089 U.S.A.
Telephone: +1 (408) 822-6000
Fax: +1 (408) 822-4501
Support telephone: +1 (888) 4-NETAPP
Documentation comments: doccomments@netapp.com
Information Web: <http://www.netapp.com>

Part number: 215-04773_A0
October 2009

Contents

Copyright information.....5

Trademark information.....7

NetApp Disaster Recovery NAS Adapter for

VMware vCenter Site Recovery Manager.....9

 System requirements for using the disaster recovery NAS scripts.....9

 Limitations of the disaster recovery NAS scripts.....10

Copyright information

Copyright © 1994–2009 NetApp, Inc. All rights reserved. Printed in the U.S.A.

No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S.A. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark information

NetApp, the Network Appliance logo, the bolt design, NetApp-the Network Appliance Company, Cryptainer, Cryptoshred, DataFabric, DataFort, Data ONTAP, Decru, FAServer, FilerView, FlexClone, FlexVol, Manage ONTAP, MultiStore, NearStore, NetCache, NOW NetApp on the Web, SANscreen, SecureShare, SnapDrive, SnapLock, SnapManager, SnapMirror, SnapMover, SnapRestore, SnapValidator, SnapVault, Spinnaker Networks, SpinCluster, SpinFS, SpinHA, SpinMove, SpinServer, StoreVault, SyncMirror, Topio, VFM, VFM Virtual File Manager, and WAFL are registered trademarks of NetApp, Inc. in the U.S.A. and/or other countries. gFiler, Network Appliance, SnapCopy, Snapshot, and The evolution of storage are trademarks of NetApp, Inc. in the U.S.A. and/or other countries and registered trademarks in some other countries. The NetApp arch logo; the StoreVault logo; ApplianceWatch; BareMetal; Camera-to-Viewer; ComplianceClock; ComplianceJournal; ContentDirector; ContentFabric; EdgeFiler; FlexShare; FPolicy; Go Further, Faster; HyperSAN; InfoFabric; Lifetime Key Management, LockVault; NOW; ONTAPI; OpenKey, RAID-DP; ReplicatorX; RoboCache; RoboFiler; SecureAdmin; Serving Data by Design; Shadow Tape; SharedStorage; Simplicore; Simulate ONTAP; Smart SAN; SnapCache; SnapDirector; SnapFilter; SnapMigrator; SnapSuite; SohoFiler; SpinMirror; SpinRestore; SpinShot; SpinStor; vFiler; VPolicy; and Web Filer are trademarks of NetApp, Inc. in the U.S.A. and other countries. NetApp Availability Assurance and NetApp ProTech Expert are service marks of NetApp, Inc. in the U.S.A.

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. A complete and current list of other IBM trademarks is available on the Web at <http://www.ibm.com/legal/copytrade.shtml>.

Apple is a registered trademark and QuickTime is a trademark of Apple, Inc. in the U.S.A. and/or other countries. Microsoft is a registered trademark and Windows Media is a trademark of Microsoft Corporation in the U.S.A. and/or other countries. RealAudio, RealNetworks, RealPlayer, RealSystem, RealText, and RealVideo are registered trademarks and RealMedia, RealProxy, and SureStream are trademarks of RealNetworks, Inc. in the U.S.A. and/or other countries.

All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such.

NetApp, Inc. is a licensee of the CompactFlash and CF Logo trademarks.

NetApp, Inc. NetCache is certified RealSystem compatible.

NetApp Disaster Recovery NAS Adapter for VMware vCenter Site Recovery Manager

NetApp Disaster Recovery NAS Adapter is a storage vendor specific plug-in to Site Recovery Manager that enables interaction between Site Recovery Manager and the storage controller.

The NAS adapter interacts with the storage controller on behalf of Site Recovery Manager to discover storage arrays and replicated datastores, and to fail over or test failover the replicated datastores on which the virtual machines reside.

For more information about the new and enhanced features of Site Recovery Manager, see the Site Recovery Manager documentation.

Next topics

[System requirements for using the disaster recovery NAS scripts](#) on page 9

[Limitations of the disaster recovery NAS scripts](#) on page 10

System requirements for using the disaster recovery NAS scripts

Before you run Disaster Recovery NAS Adapter, ensure that you meet the system requirements.

The system requirements include the following:

- Data ONTAP 7.2.4 or later is installed on the following storage systems:
 - FAS200 series
 - FAS20xx
 - FAS30xx
 - FAS31xx
 - FAS60xx
 - V30xx
 - V31xx
 - V60xx

For more information about supported platforms, see the supportability matrix on the NOW site.

- Support for the NearStore option.
- FlexClone license to test failover.
- SnapMirror license is enabled on the storage system running Data ONTAP.

- NFS services are running.
- Site Recovery Manager is installed on Windows.
Site Recovery Manager supports NFS storage environments.
- Perl 5.8 is installed in the system in which Site Recovery Manager is installed.

Note: If the Site Recovery Manager installation does not include Perl 5.8, you can install Perl separately with the default configuration. For more information about downloading Perl, see the Perl download page.

For more information about installing SSL on Perl, see the knowledgebase article on the NOW site.

- If you want to use secureHTTP, you must set up SecureAdmin and ensure that SSL or SSH is running.

By default, the Perl script calls the Data ONTAP API over HTTP.

Note: SecureAdmin does not require a license.

- To keep the corresponding port open, the firewall (if any) between Data ONTAP and Site Recovery Manager must be configured because SOAP, HTTP, or SSL is used.

Related information

[Perl script download page](#)

www.now.netapp.com

Limitations of the disaster recovery NAS scripts

When you use Disaster Recovery NAS Adapter for Site Recovery Manager, exports with multiple replication destinations cannot be failed over. Also, SyncMirror replication is not supported.

- Exports that have multiple replication destinations cannot be failed over.
- The TestFailover operation might fail if there is a volume with the same name that it tries to create. This step might destroy the existing volume when TestFailover cleans up.
- The TestFailover operation is not supported on traditional volumes because FlexClone technology is not available for traditional volumes.
- Exports from the storage array must have values in the `rw=` field of export permissions. Exports that are exported only as read-only by using `ro` or exported read/write to all hosts by using the `rw` field with no values will not be discovered by the disaster recovery scripts.
- SyncMirror replication between Site Recovery Manager sites (as in MetroCluster) is not supported.

Note: A MetroCluster system might be either the source or destination of a SnapMirror relationship; however, Site Recovery Manager does not support management of SyncMirror failover between MetroCluster nodes.

For specific information about recommended configurations and best practices when using different replication modes, see the *Data ONTAP Data Protection Online Backup and Recovery Guide*.

