



NetApp®

Data ONTAP® 8.2

Documentation Roadmap

For 7-Mode



NetApp, Inc.
495 East Java Drive
Sunnyvale, CA 94089
U.S.

Telephone: +1(408) 822-6000
Fax: +1(408) 822-4501
Support telephone: +1 (888) 463-8277
Web: www.netapp.com
Feedback: doccomments@netapp.com

Part number: 215-07952_A0
May 2013

Contents

Using the documentation map	4
Planning to set up storage systems	4
Installing storage systems	6
Setting up Data ONTAP on storage systems	7
Upgrading Data ONTAP on storage systems	8
Managing storage systems	9
Diagnosing and troubleshooting issues in storage systems	11
Learning about additional tools and resources	12
Copyright information	13
Trademark information	14
How to send your comments	15

Using the documentation map

You can use the documentation map to identify documentation and other sources of information that address the major tasks you can perform with a storage system running Data ONTAP software in 7-Mode. This document is not an exhaustive list of all available documentation.

Each table in the documentation map lists documentation to help you complete the following major tasks:

- *Planning to set up storage systems* on page 4
- *Installing storage system hardware* on page 6
- *Setting up Data ONTAP on storage systems* on page 7
- *Upgrading Data ONTAP on storage systems* on page 8
- *Managing storage systems* on page 9
- *Diagnosing and troubleshooting issues* on page 11
- *Learning about additional tools and resources* on page 12

This document applies to systems running Data ONTAP 8.2 and later, including V-Series systems and Data ONTAP-v systems. The tables include information about the following types of documentation:

- Product documents, such as software and hardware guides
- Web pages, such as configuration tables, software and firmware download tables, software release matrices, technical reports, frequently asked questions (FAQs), and information about software bugs (Bugs Online)

Planning to set up storage systems

On the NetApp Support Site, you can find documentation about planning to set up new storage systems, such as information about site preparation, power and connectivity requirements, and physical and logical storage design.

To learn about...	Go to this information source on the NetApp Support Site at support.netapp.com ...
<ul style="list-style-type: none"> • Physical site preparation • Connectivity requirements • Power requirements • Platform-specific requirements 	<i>Site Requirements Guide</i>

To learn about...	Go to this information source on the NetApp Support Site at support.netapp.com...
<ul style="list-style-type: none"> • System configuration and compatibility requirements 	<ul style="list-style-type: none"> • <i>Hardware Universe</i> (formerly the <i>System Configuration Guide</i>) • <i>Interoperability Matrix</i> • <i>Data ONTAP SAN Configuration Guide for 7-Mode</i> (formerly <i>Data ONTAP 7-Mode Fibre Channel and iSCSI Configuration Guide</i>)
<ul style="list-style-type: none"> • New features and enhancements • Known issues • Cautions 	<i>Data ONTAP Release Notes for 7-Mode</i>
<ul style="list-style-type: none"> • Requirements for setting up a V-Series system with any storage array 	<i>V-Series Installation Requirements and Reference Guide</i>
<ul style="list-style-type: none"> • Supported configurations for storage arrays and required storage array settings for working with V-Series systems 	<i>V-Series Implementation Guide for Third-Party Storage</i>
<ul style="list-style-type: none"> • Requirements for setting up systems based on Data ONTAP-v technology, such as Data ONTAP Edge 	<i>Data ONTAP Edge Installation and Administration Guide</i>

Installing storage systems

On the NetApp Support Site, you can find documentation about installing new storage systems, disk shelves, and storage systems in a high-availability configuration.

To learn about installing...	Go to Documentation on the NetApp Support Site...
<ul style="list-style-type: none"> • Disk shelves 	<ul style="list-style-type: none"> • <i>DS2246 Installation and Setup Instructions</i> • <i>DS4243, DS2246, DS4486, and DS4246 Disk Shelf Installation and Service Guide</i> • <i>DS4243 Overview, Installation and Setup Instructions</i> • <i>DS4243, DS2246, DS4486, and DS4246 Disk Shelf Installation and Service Guide</i> • <i>Universal SAS and ACP Cabling Guide</i> • <i>DiskShelf14mk2 FC and DiskShelf14mk4 FC Hardware and Service Guide</i> • <i>DiskShelf14mk2 AT Hardware Service Guide</i>
<ul style="list-style-type: none"> • A single storage system 	<ul style="list-style-type: none"> • The <i>Installation and Setup Guide</i> supplied with your storage system • The <i>Hardware Overview Guide</i> for your storage system
<ul style="list-style-type: none"> • Systems in a high-availability configuration 	<p><i>Data ONTAP High Availability and MetroCluster Configuration Guide for 7-Mode</i></p>
<ul style="list-style-type: none"> • MetroCluster systems 	<ul style="list-style-type: none"> • <i>Configuring a MetroCluster system with SAS disk shelves and FibreBridge 6500N bridges</i> • <i>Data ONTAP High Availability and MetroCluster Configuration Guide for 7-Mode</i> • <i>Fabric-attached MetroCluster Systems Brocade Switch Configuration Guide</i> • <i>Fabric-attached MetroCluster Cisco Switch Configuration Guide</i>

To learn about installing...	Go to Documentation on the NetApp Support Site...
<ul style="list-style-type: none"> Storage systems based on Data ONTAP-v technology 	<ul style="list-style-type: none"> <i>Data ONTAP-v Administration Tool Installation Guide</i> <i>Data ONTAP Edge Installation and Administration Guide</i>

Setting up Data ONTAP on storage systems

On the NetApp Support Site, you can find documentation about supported configurations, system setup information for experienced and new users, administrative functions in a storage system, AutoSupport, and setting up and managing configurations for a storage system.

To learn about...	Go to Documentation on the NetApp Support Site...
<ul style="list-style-type: none"> Supported configurations Cautions Licensing changes 	<i>Data ONTAP Release Notes for 7-Mode</i>
<ul style="list-style-type: none"> Initial setup of Data ONTAP 	<ul style="list-style-type: none"> <i>Data ONTAP Software Setup Guide for 7-Mode</i> For Data ONTAP-v systems, the <i>Data ONTAP Edge Installation and Administration Guide</i>
<ul style="list-style-type: none"> Access methods Role-based access control Basic administration AutoSupport 	<i>Data ONTAP System Administration Guide for 7-Mode</i>
<ul style="list-style-type: none"> Setting up and managing network configurations 	<i>Data ONTAP Network Management Guide for 7-Mode</i>
<ul style="list-style-type: none"> Setting up and administering Data ONTAP-v storage software 	<i>Data ONTAP Edge Installation and Administration Guide</i>

Upgrading Data ONTAP on storage systems

On the NetApp Support Site, you can find documentation about the software changes for a release, upgrading a storage system to Data ONTAP 8.2 and reverting to an earlier release from Data ONTAP 8.2, and the firmware releases that are applicable for your platform and disk drives.

To learn about...	Go to this information source on the NetApp Support Site at support.netapp.com ...
<ul style="list-style-type: none"> • New features and enhancements • Known issues • Upgrade cautions • Licensing changes 	<p><i>Data ONTAP Release Notes for 7-Mode</i></p>
<ul style="list-style-type: none"> • Planning and performing a Data ONTAP upgrade 	<ul style="list-style-type: none"> • Upgrade Advisor at MyAutoSupport If your system sends AutoSupport messages to NetApp, you can use the Upgrade Advisor to generate an upgrade plan automatically based on your system configuration. • <i>Data ONTAP Upgrade and Revert/Downgrade Guide for 7-Mode</i> If your system does not send AutoSupport messages, you should use the <i>Release Notes</i> and <i>Upgrade Guide</i> to generate an upgrade plan.
<ul style="list-style-type: none"> • System configurations and compatibility requirements 	<ul style="list-style-type: none"> • Hardware Universe (formerly the <i>System Configuration Guide</i>) • Interoperability Matrix
<ul style="list-style-type: none"> • System firmware releases available for your platform 	<p>Downloads > Firmware > System Firmware and Diagnostics</p>
<ul style="list-style-type: none"> • Disk drive firmware release recommended for your disk drives 	<p>Downloads > Firmware > Disk Drive and Firmware Matrix</p>
<ul style="list-style-type: none"> • Perform remote filer management using RLM (Remote LAN Module) 	<p>Downloads > Firmware > RLM Firmware</p>
<ul style="list-style-type: none"> • Disk shelf and ESH firmware releases 	<p>Downloads > Firmware > Disk Shelf Firmware</p>

To learn about...	Go to this information source on the NetApp Support Site at support.netapp.com...
<ul style="list-style-type: none"> • Hardware upgrade of a storage system 	Documentation > Product Documentation > More Resources > 7-Mode Controller Hardware Upgrade Information

Managing storage systems

On the NetApp Support Site, you can find documentation about performing daily management tasks, such as managing storage resources and data, setting up and managing file access protocols, managing systems in a high-availability configuration, and managing one or more storage systems running Data ONTAP by using a graphical user interface.

To learn about...	Go to Documentation on the NetApp Support Site...
<ul style="list-style-type: none"> • Access methods • Role-based access control • Basic administration • AutoSupport 	<i>Data ONTAP System Administration Guide for 7-Mode</i>
<ul style="list-style-type: none"> • Managing systems in a high-availability (HA pair) configuration 	<i>Data ONTAP High Availability and MetroCluster Configuration Guide for 7-Mode</i>
<ul style="list-style-type: none"> • Managing storage resources by using aggregates and RAID groups • Managing and provisioning data by using volumes, qtrees, and quotas • Increasing storage efficiency by using deduplication and compression 	<i>Data ONTAP Storage Management Guide for 7-Mode</i>
<ul style="list-style-type: none"> • Managing storage efficiency technologies 	<i>Data ONTAP Storage Efficiency Management Guide for 7-Mode</i>
<ul style="list-style-type: none"> • Setting up and managing file access by using the NFS, CIFS, HTTP, FTP, and WebDAV protocols 	<i>Data ONTAP File Access and Protocols Management Guide for 7-Mode</i>

To learn about...	Go to Documentation on the NetApp Support Site...
<ul style="list-style-type: none"> • Using the following data protection features of Data ONTAP: <ul style="list-style-type: none"> • Snapshot technology • SnapMirror • SnapVault • SyncMirror • The <code>vol copy</code> command • Antivirus protection 	<p><i>Data ONTAP Data Protection Online Backup and Recovery Guide for 7-Mode</i></p>
<ul style="list-style-type: none"> • Data protection using tape devices 	<p><i>Data ONTAP Data Protection Tape Backup and Recovery Guide for 7-Mode</i></p>
<ul style="list-style-type: none"> • Setting up, configuring, and managing vFiler units with the MultiStore software 	<p><i>Data ONTAP MultiStore Management Guide for 7-Mode</i></p>
<ul style="list-style-type: none"> • Configuring and managing iSCSI, FCoE, and FC protocols for clustered SAN environments, including configuration of LUNs, igroups, and targets. 	<p><i>Data ONTAP SAN Administration Guide for 7-Mode (formerly Data ONTAP 7-Mode Block Access Management Guide for iSCSI and FC)</i></p>
<ul style="list-style-type: none"> • Archiving and protecting data for compliance purposes 	<p><i>Data ONTAP Archive and Compliance Management Guide for 7-Mode</i></p>
<ul style="list-style-type: none"> • The Data ONTAP commands documented in manual (man) pages 	<ul style="list-style-type: none"> • <i>Data ONTAP Commands: Manual Page Reference for 7-Mode, Volume 1</i> • <i>Data ONTAP Commands: Manual Page Reference for 7-Mode, Volume 2</i>
<ul style="list-style-type: none"> • Managing one or more storage systems from a graphical user interface 	<ul style="list-style-type: none"> • <i>OnCommand System Manager Quick Start Guide</i> • <i>OnCommand System Manager Help</i> • <i>OnCommand Unified Manager Operations Manager Administration Guide</i> • <i>OnCommand Unified Manager Administration Guide</i>

Diagnosing and troubleshooting issues in storage systems

On the NetApp Support Site, you can find documentation about monitoring, troubleshooting, and maintaining the physical resources of storage systems. You can also find information about diagnosing and correcting hardware issues, turning on AutoSupport, and interpreting Syslog messages.

To learn about...	Go to this information source on the NetApp Support Site at support.netapp.com ...
<ul style="list-style-type: none"> Monitoring, troubleshooting, and maintaining the physical resources of a system 	<i>Hardware Platform Monitoring Guide</i>
<ul style="list-style-type: none"> Testing field replaceable units and diagnosing and correcting system hardware problems 	<i>Diagnostics Guide</i>
<ul style="list-style-type: none"> Collecting data and uploading core files and diagnostic data directly to technical support 	<i>Remote Support Agent Configuration Guide for 7-Mode for Use with Data ONTAP</i>
<ul style="list-style-type: none"> Support features of your equipment, including AutoSupport Working with technical support during the life of your storage systems 	<ul style="list-style-type: none"> <i>Data ONTAP System Administration Guide for 7-Mode</i> <i>My AutoSupport</i> <i>Support Owner's Manual</i>
<ul style="list-style-type: none"> Technical tips and articles to help with specific issues and problems 	<i>Knowledgebase</i>
<ul style="list-style-type: none"> The current status of bugs 	<i>Bugs Online</i>
To learn about...	Go to this information source at netapp.com ...
<ul style="list-style-type: none"> Exchanging knowledge and information with certified experts and fellow professionals Joining current online discussions about storage and IT efficiency and flexibility 	<i>Communities</i>

Learning about additional tools and resources

On the NetApp Support Site, you can find additional tools and resources that help you administer NetApp products efficiently.

To learn about...	Go to this information source on the NetApp Support Site at support.netapp.com...
<ul style="list-style-type: none"> • Tools and utilities to improve the manageability and performance of your storage systems 	<i>Utility ToolChest</i>

To learn about...	Go to this information source at netapp.com...
<ul style="list-style-type: none"> • Analyst Reports • Customer Stories • Research Papers • Technical Reports • White Papers • Videos 	<i>Library</i>

Copyright information

Copyright © 1994–2013 NetApp, Inc. All rights reserved. Printed in the U.S.

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. 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 NetApp logo, Network Appliance, the Network Appliance logo, Akorri, ApplianceWatch, ASUP, AutoSupport, BalancePoint, BalancePoint Predictor, Bycast, Campaign Express, ComplianceClock, Cryptainer, CryptoShred, CyberSnap, Data Center Fitness, Data ONTAP, DataFabric, DataFort, Decru, Decru DataFort, DenseStak, Engenio, Engenio logo, E-Stack, ExpressPod, FAServer, FastStak, FilerView, Flash Accel, Flash Cache, Flash Pool, FlashRay, FlexCache, FlexClone, FlexPod, FlexScale, FlexShare, FlexSuite, FlexVol, FPolicy, GetSuccessful, gFiler, Go further, faster, Imagine Virtually Anything, Lifetime Key Management, LockVault, Mars, Manage ONTAP, MetroCluster, MultiStore, NearStore, NetCache, NOW (NetApp on the Web), Onaro, OnCommand, ONTAPI, OpenKey, PerformanceStak, RAID-DP, ReplicatorX, SANscreen, SANshare, SANtricity, SecureAdmin, SecureShare, Select, Service Builder, Shadow Tape, Simplicity, Simulate ONTAP, SnapCopy, Snap Creator, SnapDirector, SnapDrive, SnapFilter, SnapIntegrator, SnapLock, SnapManager, SnapMigrator, SnapMirror, SnapMover, SnapProtect, SnapRestore, Snapshot, SnapSuite, SnapValidator, SnapVault, StorageGRID, StoreVault, the StoreVault logo, SyncMirror, Tech OnTap, The evolution of storage, Topio, VelocityStak, vFiler, VFM, Virtual File Manager, VPolicy, WAFL, Web Filer, and XBB are trademarks or registered trademarks of NetApp, Inc. in the United States, other countries, or both.

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 www.ibm.com/legal/copytrade.shtml.

Apple is a registered trademark and QuickTime is a trademark of Apple, Inc. in the United States and/or other countries. Microsoft is a registered trademark and Windows Media is a trademark of Microsoft Corporation in the United States 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 United States 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.

How to send your comments

You can help us to improve the quality of our documentation by sending us your feedback.

Your feedback is important in helping us to provide the most accurate and high-quality information. If you have suggestions for improving this document, send us your comments by email to doccomments@netapp.com. To help us direct your comments to the correct division, include in the subject line the product name, version, and operating system.

You can also contact us in the following ways:

- NetApp, Inc., 495 East Java Drive, Sunnyvale, CA 94089 U.S.
- Telephone: +1 (408) 822-6000
- Fax: +1 (408) 822-4501
- Support telephone: +1 (888) 463-8277