

OnCommand™ System Manager 2.0

Quick Start Guide

NetApp, Inc.
495 East Java Drive
Sunnyvale, CA 94089 USA
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: 215-05279_A0
August 2011

Contents

Understanding System Manager	5
Where to find additional Data ONTAP 7-Mode information	5
Where to find additional Data ONTAP Cluster-Mode information	6
Installing, uninstalling, and upgrading System Manager	9
System requirements for System Manager	9
Downloading the System Manager software	10
Installing System Manager on Windows	10
Installing System Manager on Linux	11
Upgrading to System Manager 2.0 on Windows	12
Uninstalling System Manager 2.0 on Windows	13
Uninstalling System Manager 2.0 on Linux	14
Launching System Manager	15
Getting started with System Manager	17
Adding storage systems	17
Discovering storage systems	18
Configuring storage systems	19
Copyright information	21
Trademark information	23
How to send your comments	25
Index	27

Understanding System Manager

System Manager enables you to manage storage systems and storage objects, such as disks, volumes, and aggregates. System Manager is a Web-based graphical management interface to manage common functions related to storage systems from a Web browser.

You can use System Manager to manage storage systems and HA configurations running the following versions of Data ONTAP:

- Data ONTAP 7.x (starting from 7.2.3)
- Data ONTAP 8.x 7-Mode
- Data ONTAP 8.1 Cluster-Mode

Note: In the Data ONTAP 8.x 7-Mode product name, the term *7-Mode* signifies that the 8.x release has the same features and functionality found in the prior Data ONTAP 7.1, 7.2, and 7.3 release families.

You can also manage V-Series systems.

System Manager enables you to perform many common tasks such as the following:

- Configure and manage storage objects, such as disks, aggregates, volumes, qtrees, and quotas.
- Configure protocols such as CIFS and NFS and provision file sharing.
- Configure protocols such as FC and iSCSI for block access.
- Create and manage vFiler units.
- Set up and manage SnapMirror relationships.
- Manage HA configurations and perform takeover and giveback operations.
- Perform cluster management, storage node management, and Vserver management operations in a cluster environment.
- Create and configure Vservers, manage storage objects associated with a Vserver, and manage Vserver services.
- Monitor and manage your storage systems.

Note: Starting Data ONTAP 8.1, System Manager replaces FilerView as the tool to manage storage systems.

Where to find additional Data ONTAP 7-Mode information

System Manager Help provides basic Data ONTAP 7-Mode conceptual information you need to help you perform tasks from System Manager. For more information about how to configure, monitor, and manage storage objects and storage systems, you can see the Data ONTAP documentation available on the NetApp Support Site.

You might find the following Data ONTAP documentation useful when using System Manager:

Storage Management Guide	Describes how to configure, operate, and manage the storage resources for storage systems running Data ONTAP 7-Mode, using disks, RAID groups, aggregates, volumes, FlexClone volumes, files and LUNs, FlexCache volumes, deduplication, compression, qtrees, and quotas.
System Administration Guide	Describes general system administration for storage systems that run Data ONTAP software.
High-Availability Configuration Guide	Describes how to install and manage high-availability configurations.
MultiStore Management Guide	Describes how to administer vFiler units (virtual storage systems) with the MultiStore software available by license with Data ONTAP 7-Mode.
Network Management Guide	Describes how to configure and manage networks associated with storage systems running Data ONTAP 7-Mode.
Storage Efficiency Management Guide	Describes the features and functionalities that help to significantly improve storage utilization.
Block Access Management Guide for iSCSI and FC	Describes how to configure and manage the iSCSI and FC protocols for SAN environments.
File Access and Protocols Management Guide	Describes how to manage file access on storage systems with Data ONTAP 7-Mode for NFS, CIFS, HTTP, FTP, and WebDAV protocols.
Data Protection Online Backup and Recovery Guide	Describes how to back up and recover data using Data ONTAP 7-Mode online backup and recovery features.
Archive and Compliance Management Guide	Describes how to archive and protect data for compliance purposes.

Related information

Data ONTAP 7-Mode Information Library page - http://now.netapp.com/NOW/knowledge/docs/ontap/ontap_index.shtml

Where to find additional Data ONTAP Cluster-Mode information

System Manager Help provides basic Data ONTAP Cluster-Mode conceptual information that is relevant to the tasks that you can perform using System Manager. For more in-depth conceptual information that you might require for configuration, monitoring, and management of storage objects

and storage systems, you can see the Data ONTAP documentation available on the NetApp Support Site.

You can access the following related Data ONTAP Cluster-Mode documentation from the NetApp Support Site.

Physical Storage Management Guide	Describes how to configure, operate, and manage the physical storage resources for storage systems running Data ONTAP Cluster-Mode. It covers disks, RAID groups, plexes, and aggregates.
Logical Storage Management Guide	Describes how to configure, operate, and manage the storage resources for storage systems running Data ONTAP Cluster-Mode. It covers volumes, FlexClone volumes, files and LUNs, deduplication, compression, qtrees, and quotas.
System Administration Guide	Describes general system administration for storage systems that run Data ONTAP software.
High Availability Configuration Guide	Describes installation and management for high availability configurations.
Vserver Administrator Capabilities Overview	Describes the capabilities of a Vserver administrator to administer Vservers (virtual storage systems) in the Data ONTAP Cluster-Mode.
Network Management Guide	Describes how to configure and manage networks associated with NetApp storage systems running Data ONTAP Cluster-Mode and how to manage file access with NFS and CIFS protocols.
Block Access Management Guide for iSCSI and FC	Describes how to configure and manage the iSCSI and FC protocols for NetApp SAN environments.
File Access and Protocols Management Guide	Describes how to configure and manage networks and how to manage file access with NFS and CIFS protocols.
Data Protection Management Guide	Describes how to back up and recover data using Data ONTAP Cluster-Mode online backup and recovery features.

Related information

Data ONTAP Cluster-Mode Information Library page - http://now.netapp.com/NOW/knowledge/docs/ontap/ontap_cmode_index.shtml

Installing, uninstalling, and upgrading System Manager

You can download and install System Manager on a desktop or laptop that is running a Windows or a Linux operating system. You can upgrade to System Manager 2.0 from the earlier versions of System Manager. When required, you can uninstall System Manager.

On Windows, you can install System Manager by using the standard wizard-based installer. On Linux, you can use Red Hat Package Manager (RPM).

System requirements for System Manager

You must ensure that you have the required host system configuration, operating system, and browser to run the System Manager software.

Your host system must meet the following minimum requirements:

- Pentium x86 processor
- 1-GB RAM
- 40-GB HDD
- Wireless or Ethernet connection to the network
- A 32-bit Windows or Linux operating system or a 64-bit Windows operating system
- Adobe Flash Player 8.0 or later
- 32-bit Sun Java Runtime Environment (JRE) 6

Note: You should use 32-bit Sun Java Runtime Environment (JRE) 6 update 24 or later.

Your Windows system must be running one of the following:

- Windows XP Pro SP2 or later
- Windows Vista Enterprise SP1
- Windows 7
- Windows Server 2003 SP2
- Windows Server 2008

Your Linux system must be running one of the following:

- Red Hat Enterprise Linux 5
- SUSE Linux Enterprise Server 11

Your Linux system must have a graphical desktop environment, such as Gnome or KDE, installed.

Your Web browser must be one of the following:

- 32-bit Internet Explorer 7.0 or 8.0 (for Windows)
- 32-bit Mozilla Firefox 3.0, 3.5, or 3.6 (for both Windows and Linux)

The screen resolution must be set to 1280 by 1024 pixels.

Your storage systems must be running any of the following versions of Data ONTAP:

- Data ONTAP 7G (starting from 7.2.3)
- Data ONTAP 8.x 7-Mode
- Data ONTAP 8.1 Cluster-Mode

For the latest information about currently supported systems, see the Interoperability Matrix.

Related information

<http://now.netapp.com/NOW/products/interoperability/>

Downloading the System Manager software

Before you install System Manager, you must download the software from the NetApp Support Site. The software is available to all registered users for free download.

Before you begin

You must have access to the NetApp Support Site.

Steps

1. Log in to the NetApp Support Site.
2. In the Service and Support page, click **Downloads > Software**.
3. In the System Manager row, select the platform, and click **Go!**.
4. Follow the prompts and download the software file to a local directory.

Related information

NetApp Support Site: <http://support.netapp.com/>

Installing System Manager on Windows

You can install System Manager on your Windows system by using the wizard-based installer.

Before you begin

- Your Windows host system and the storage systems must be running the supported software versions.

- The System Manager software must be downloaded from the NetApp Support Site.
- You must have the necessary administrator privileges to install the application.
- If you manually specify the port for the Jetty Web server that System Manager installs, the selected port must not already be used by another application whenever the System Manager application is launched.

Note: If the port is already being used by another application, the installation is completed. However, you cannot launch System Manager and you must perform the installation again.

Steps

1. Run the System Manager setup (.exe) file from the directory where you downloaded and saved the software.
2. Follow the on-screen prompts to complete your installation.

After you finish

You can launch System Manager and start managing your storage systems and objects.

Related tasks

[Downloading the System Manager software](#) on page 10

[Launching System Manager](#) on page 15

Related references

[System requirements for System Manager](#) on page 9

Related information

[NetApp Support Site: http://support.netapp.com/](http://support.netapp.com/)

Installing System Manager on Linux

You can install System Manager on your Linux system by using Red Hat Package Manager (RPM).

Before you begin

- Your Linux host system and storage systems must be running the supported software versions.
- The System Manager software must be downloaded from the NetApp Support Site.

Steps

1. Install System Manager by performing the appropriate action:

If you want to install from the...	Then...
Desktop	Double-click the RPM package file.
Command-line-interface	Enter the following command: <code>rpm -i downloaded_rpm_file_name</code>

- Optional: Check the progress of the installation by using the following command:

```
rpm -ivv downloaded_rpm_file_name
```

After you finish

You can launch System Manager and start managing your storage systems and objects.

Related tasks

[Downloading the System Manager software](#) on page 10

[Launching System Manager](#) on page 15

Related references

[System requirements for System Manager](#) on page 9

Related information

[NetApp Support Site: http://support.netapp.com/](http://support.netapp.com/)

Upgrading to System Manager 2.0 on Windows

You can upgrade to System Manager 2.0 from the earlier versions of System Manager to configure and manage your storage systems. After the upgrade, you can continue to manage the storage systems that you were managing with the earlier versions of System Manager.

Before you begin

- Your Windows host system and the storage systems must be running the supported software versions
- The System Manager software must be downloaded from the NetApp Support Site.
- Any earlier version of System Manager that is running on your system must be closed.

About this task

You do not have to uninstall earlier versions of System Manager.

Steps

1. Download the System Manager 2.0 software from the NetApp Support Site.
2. Run the System Manager executable (.exe) file and follow the on-screen instructions.

After the upgrade, the IP addresses of all the storage systems you managed using the earlier version of System Manager are migrated.

After you finish

You can launch System Manager and start managing your storage systems.

Because the storage system credentials are not migrated, you must provide them before you use System Manager to manage your storage systems.

Related tasks

[Downloading the System Manager software](#) on page 10

[Launching System Manager](#) on page 15

Related references

[System requirements for System Manager](#) on page 9

Related information

[NetApp Support Site: http://support.netapp.com/](http://support.netapp.com/)

Uninstalling System Manager 2.0 on Windows

You can uninstall System Manager 2.0 by using the Windows Add or Remove Programs utility.

Before you begin

If the System Manager 2.0 application is running, it must be closed.

Steps

1. Click **Start > Control Panel**.
2. Open the utility to add or remove programs and uninstall System Manager 2.0.

Uninstalling System Manager 2.0 on Linux

You can uninstall System Manager 2.0 through the desktop or from the CLI by using the Red Hat Package Manager (RPM).

Before you begin

If the System Manager 2.0 application is running, it must be closed.

Step

- 1. Uninstall System Manager by performing the appropriate action:

If you want to uninstall System Manager from the...	Then...
Desktop	a. Click Applications. b. Open the utility to add or remove programs and uninstall System Manager 2.0.
Command-line-interface	Enter the following command: rpm -e <i>system_manager_package_name</i>

Launching System Manager

After installing System Manager, you must launch the application to configure and manage your storage systems from a Web browser.

Before you begin

- If you are using a Windows Server operating system and Internet Explorer, the URL `http://127.0.0.1` must be added as a trusted site in Internet Explorer.
- If you are using a proxy server, it must be disabled.
- Sun Java Runtime Environment (JRE) 6 must be installed.
- If you are running Windows or Linux guest OS on Mac OS by using VMware Fusion:
 - The Shared folders feature must be disabled.
 - The desktop option of the Mirrored folders feature must be disabled.

Step

1. Launch System Manager 2.0 by double-clicking the System Manager 2.0 icon on your desktop.

Getting started with System Manager

The System Manager user interface enables you to configure your storage systems and manage storage objects such as disks, aggregates, volumes, quotas, qtrees, and LUNs; protocols such as CIFS, NFS, iSCSI, and FCP; vFiler units; Vservers; HA configurations; V-Series systems; and SnapMirror relationships.

For more information about how to configure and manage your storage systems from System Manager, see the *System Manager Help*. You can access the Help in PDF format from the NetApp Support Site or from the Help provided with the System Manager software.

Before you can start managing a storage system from System Manager, you have to add it to System Manager.

Related information

NetApp Support Site: <http://support.netapp.com/>

Adding storage systems

Before you can use System Manager to manage your storage systems and objects, you have to add them to System Manager. You can add storage systems that are in a high-availability (HA) configuration.

Before you begin

- Your storage systems must be running a supported version of Data ONTAP.
- If your storage system is running a Data ONTAP release in the Data ONTAP 8.0 release family, SSL must be enabled on the storage system.
- All the nodes in the cluster must be running Data ONTAP 8.1.

About this task

If you are adding one of the storage systems from an HA pair, the partner node is automatically added to the list of managed systems. If a high-availability partner node is down, you can add the working storage node.

Steps

1. From the **Home** tab, click **Add**.
2. Type the fully qualified DNS host name, or the IPv4 or IPv6 address of the storage system.
3. Click the **More** arrow.

4. Select the method for discovering and adding the storage system:

- **SNMP**

You must specify the SNMP community and SNMP version.

Note: If the storage system is running a Data ONTAP release in the Data ONTAP 7.2 release family, use SNMP version1.

- **Credentials**

You must specify the user name and password.

5. Click **Add**.

Result

The storage system or the HA pair that you added is included in the list of managed systems.

Discovering storage systems

You can use the Discover Storage Systems dialog box to discover storage systems or a high-availability (HA) pair of storage systems on a network subnet and add them to the list of managed systems.

Before you begin

- Your storage systems must be running a supported version of Data ONTAP.
- All the nodes in the cluster must be running Data ONTAP 8.1.

About this task

If you are adding one of the storage controllers from an HA pair, the partner system is automatically added to the list of managed systems.

Steps

1. From the **Home** tab, click **Discover**.
2. In the **Discover Storage Systems** dialog box, type the subnet IP address, and click **Discover**.
3. Select one or more storage systems from the list of discovered systems and click **Add Selected Systems**.
4. Verify that the storage system or the HA pair that you added is included in the list of managed systems in the System Manager application window.

Configuring storage systems

You can use the Storage Configuration wizard to configure your storage system or a high-availability configuration. You must separately configure each storage system when you configure an HA configuration.

Before you begin

Your storage systems must be running any of the following versions of Data ONTAP:

- Data ONTAP 7.x (starting from 7.2.3)
- Data ONTAP 8.x 7-Mode

Steps

1. From the **Home** tab, double-click the appropriate storage system.
2. In the navigation pane, click **Storage**.
3. Click the **Storage Configuration** wizard.
4. Type or select information as requested by the wizard.
5. Confirm the details and click **Finish** to complete the wizard.

Copyright information

Copyright © 1994–2011 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 NetApp logo, Network Appliance, the Network Appliance logo, Akorri, ApplianceWatch, ASUP, AutoSupport, BalancePoint, BalancePoint Predictor, Bycast, Campaign Express, ComplianceClock, Cryptainer, CryptoShred, Data ONTAP, DataFabric, DataFort, Decru, Decru DataFort, DenseStak, Engenio, Engenio logo, E-Stack, FAServer, FastStak, FilerView, FlexCache, FlexClone, FlexPod, FlexScale, FlexShare, FlexSuite, FlexVol, FPolicy, GetSuccessful, gFiler, Go further, faster, Imagine Virtually Anything, Lifetime Key Management, LockVault, 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, SnapDirector, SnapDrive, SnapFilter, SnapLock, SnapManager, SnapMigrator, SnapMirror, SnapMover, SnapProtect, SnapRestore, Snapshot, SnapSuite, SnapValidator, SnapVault, StorageGRID, StoreVault, the StoreVault logo, SyncMirror, Tech OnTap, The evolution of storage, Topio, 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 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.

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 e-mail 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
- Telephone: +1 (408) 822-6000
- Fax: +1 (408) 822-4501
- Support Telephone: +1 (888) 4-NETAPP

Index

A

- adding
 - storage systems 17

C

- configuring
 - storage systems 19

D

- discovering
 - storage systems 18

S

- storage objects
 - managing 17
- storage systems

- adding 17
- configuring 19
- discovering 18

System Manager

- about 5
- downloading software 10
- getting started 17
- installing
 - Linux 11
 - supported browsers 9
 - system requirements 9
 - Windows 10

- launching 15

- uninstalling
 - Linux 14
 - upgrading 9
 - Windows 13
- upgrading
 - Windows 12

