

NetApp[®] System Manager Quick Start Guide

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About this guide

You can use your product more effectively when you understand this document's intended audience and the conventions that this document uses to present information.

This guide describes how to install, configure, and use System Manager.

Next topics

[Audience](#) on page 9

[Keyboard and formatting conventions](#) on page 9

[Special messages](#) on page 10

[How to send your comments](#) on page 10

Audience

This document is written with certain assumptions about your technical knowledge and experience.

It also assumes that you are familiar with the following topics:

- Knowledge of how Hypertext Transport Protocol over Secure Sockets Layer (HTTPS) is used for file sharing or transfers
- Knowledge of how block storage protocols, such as FCP and iSCSI, work with SAN storage

Keyboard and formatting conventions

You can use your product more effectively when you understand how this document uses keyboard and formatting conventions to present information.

Keyboard conventions

Convention	What it means
The NOW site	Refers to <i>NetApp On the Web</i> at now.netapp.com/ .
<i>Enter</i> , <i>enter</i>	• Used to refer to the key that generates a carriage return; the key is named Return on some keyboards. • Used to mean pressing one or more keys on the keyboard and then pressing the Enter key, or clicking in a field in a graphical interface and then typing information into the field.

Convention	What it means
hyphen (-)	Used to separate individual keys. For example, Ctrl-D means holding down the Ctrl key while pressing the D key.
type	Used to mean pressing one or more keys on the keyboard.

Formatting conventions

Convention	What it means
<i>Italic font</i>	- Words or characters that require special attention. - Placeholders for information that you must supply. For example, if the guide says to enter the <code>arp -d hostname</code> command, you enter the characters "arp -d" followed by the actual name of the host. - Book titles in cross-references.
Monospaced font	- Command names, option names, keywords, and daemon names. - Information displayed on the system console or other computer monitors. - Contents of files. - File, path, and directory names.
Bold monospaced font	Words or characters you type. What you type is always shown in lowercase letters, unless your program is case-sensitive and uppercase letters are necessary for it to work properly.

Special messages

This document might contain the following types of messages to alert you to conditions that you need to be aware of.

Note: A note contains important information that helps you install or operate the system efficiently.

Attention: An attention notice contains instructions that you must follow to avoid a system crash, loss of data, or damage to the equipment.

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 name of your product and the applicable operating system. For example, *FAS6070—Data ONTAP 7.3*, or *Host Utilities—Solaris*, or *Operations Manager 3.8—Windows*.

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What System Manager is

You can use System Manager to manage your storage systems and storage system components.

System Manager provides setup and management capabilities for storage system components such as disks, volumes, and aggregates. You can use System Manager to quickly and efficiently set up NetApp storage systems. You can use this tool to configure protocols such as CIFS, NFS, FC, and iSCSI, provision file sharing, and monitor and manage your storage systems.

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System requirements

You can install the System Manager application on a desktop or laptop.

The minimum host system configuration required is:

- Pentium x86 processor
- 1 GB RAM
- 40 GB HDD
- Wireless or Ethernet connection to the network
- Host system running a 32-bit Windows or a Linux operating system
- Java Runtime Environment (JRE) 1.6 or later installed

The System Manager application is supported on following operating systems and browsers:

- Windows systems:
 - Windows XP Pro SP2 and later
 - Windows Vista Enterprise SP1
 - Windows 2007
 - Windows Server 2003 SP2
 - Windows Server 2008
 - Internet Explorer 6.0, 7.0, or 8.0
 - Mozilla Firefox 3 or later
- Linux systems:
 - Red Hat Enterprise Linux 5
 - SUSE Linux Enterprise Server 11
 - Mozilla Firefox 3 or later

The storage systems, to be managed by System Manager, must be running Data ONTAP 7.2.3 or later. Click the following link to see a list of currently supported systems.

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

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Downloading the System Manager software

You can download the System Manager software from the NOW site. It is a free download for all customers.

Steps

1. Log in to the NOW site. If you are an existing customer, log in using your user name and password. Else, register as a new user by following the instructions.
2. In the Service and Support page, click **Downloads > Software**.
3. Go to the System Manager row, select the platform, and click **Go!**.
4. Follow the on-screen prompts and download the software file to a local directory.

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System Manager installation

You can install the System Manager software on a desktop or laptop that is running a 32-bit Windows or a Linux operating system.

Depending on the platform, there are two installers, one for Windows and the other for Linux. On Windows, you can install System Manager by using the standard wizard based installer. On Linux, you can use Red Hat Package Manager.

Next topics

[Installing System Manager software on Windows](#) on page 19

[Upgrading to System Manager 2.0](#) on page 20

[Installing System Manager software on Linux](#) on page 20

Installing System Manager software on Windows

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

Before you begin

Any earlier version of System Manager that is running on your system must be closed.

The System Manager software must be downloaded from the NOW site

About this task

You do not need to uninstall earlier versions of System Manager to upgrade to System Manager 2.0.

Steps

1. Run the System Manager executable (.exe) file and follow the instructions on the screen.
2. Type or select information as requested by the NetApp System Manager Setup wizard.
3. After the installation is complete, use any of the following methods to launch the application.
 - a. Click the NetApp System Manager 2.0 icon on the desktop.
 - b. Click **Start > All Programs > NetApp System Manager 2.0**.

Related information

[NetApp on the Web \(NOW site\)](#)

Upgrading to System Manager 2.0

You can upgrade to System Manager 2.0 from the earlier versions of System Manager to configure and manage your storage systems in a better way. After the upgrade, you can straightaway start managing 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.

Any earlier version of System Manager that is running on your system must be closed.

About this task

You do not need to uninstall earlier versions of System Manager to upgrade to System Manager 2.0.

Steps

1. Download the System Manager software from the NOW site.
2. Run the System Manager executable (.exe) file and follow the instructions on the screen.

After the upgrade, the IP addresses of all storage systems running compatible versions of Data ONTAP are migrated.

3. Use any of the following methods to launch the application.
 - a. Click the NetApp System Manager 2.0 icon on the desktop.
 - b. Click **Start > All Programs > NetApp > System Manager 2.0**.

After you finish

Because the storage system credentials are not migrated, provide them before you start managing the storage systems.

Installing System Manager software on Linux

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

Before you begin

The System Manager must be downloaded from the NOW site.

Step

1. Enter the following *rpm* command:

```
rpm -i <rpm system manager package name>
```

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Uninstalling System Manager 2.0 in 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 software is running, all instances of the software must be closed.

Steps

1. In the **Control Panel**, click **Add or Remove Programs** and then click **Remove a program**.
2. Select the entry for System Manager and click **Remove**.
3. Click **Yes** in the confirmation window and then click **OK**.

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Uninstalling System Manager 2.0 in Linux

You can uninstall System Manager 2.0 from the command line interface by using Red Hat Package Manager (RPM).

Before you begin

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

Step

1. Enter the following *rpm* command:

```
rpm -e <rpm system manager package name>
```

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Adding a storage system

If you know the host name or IP address of a storage system, you can add a storage system or an active/active configuration by using the **Add** dialog box.

Steps

1. From the **Home** tab, click **Add** to add a storage system.
2. Enter the host name or IPv4 or IPv6 address of the storage system and click **Add**.
Note: If you are adding one of the storage controllers from an active/active pair, the partner system is automatically added to the list of managed systems. If an active/active partner node is down, you can still add the other node.
3. Verify that the storage system or the active/active configuration that you added is included in the list of managed systems.

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Discovering storage systems

You can use the **Discover Storage Systems** dialog box to discover storage systems or an active/active storage systems on a network subnet and add them to the list of managed systems.

Steps

1. From the **Home** tab, click **Discover**.
2. In the **Discover Storage Systems** dialog box, enter the subnet IP address and click **Discover**.
Note: You can type an IP address in any of the following formats: A.B.C.D, A.B.C, A.B.C.*, or A.B.C.D/24.
3. Select one or more storage systems from the list of discovered systems and click **Add Selected Systems**.
Note: If you are adding one of the storage controllers from an active/active pair, the partner system is automatically added to the list of managed systems.
4. Verify that the storage system or the active/active configuration that you added is included in the list of managed systems.

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Dashboard window

You can use the **Dashboard** window to view detailed diagnostic information about your storage systems.

You can use the application to display detailed, realtime diagnostic information in a four-pane dashboard:

- If you select an individual storage system from the console tree list of managed storage systems, a dashboard for that storage system is displayed.
- If you select a parent entry for an active/active pair from the console tree list of managed storage systems, a dashboard for that pair of storage systems is displayed. This dashboard shows different information than the dashboard for individual storage systems.
- If you select a storage system or active/active pair that is down, the status of the system is shown in red. System Manager is unable to connect to the system.

The available panes in both dashboard types are titled as follows:

- **Properties** pane
- **Notifications** pane
- **Reminders** pane
- **CPU Utilization** pane
- **I/O** pane
- **Protocol Ops** pane
- **Protocol Latency** pane

For detailed information about the content of these panes, click  to display the context-sensitive help for each pane.

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Monitoring storage systems

The dashboard enables you to monitor health and performance of storage systems. You can also identify hardware problems and storage configuration issues by using the dashboard.

Steps

1. From the **Home** tab, double-click the appropriate storage system to display a subtree of management features.
2. Select the host or the node in the left navigation pane.
3. View the details in the dashboard panes.

The dashboard panels display the following information:

- Properties
- Notifications
- CPU utilization
- Reminders
- I/O
- Protocol Ops
- Protocol Latency

Note: The dashboard displays up to four panes. For storage systems that are in clusters, the dashboard does not display the I/O, protocol ops, and protocol latency panes.

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Management of storage objects

System Manager has a graphical user interface that enables you to manage your storage systems and storage objects.

You can use the System Manager GUI to configure and set up your storage systems and storage objects such as disks, volumes, LUNs, and aggregates. You can set up and manage protocols such as CIFS, NFS, iSCSI, and FCP, and provision file sharing.

You can use the **Home** tab to access a storage system and the various management features.

For more information, see the System Manager Help. You can access this document in PDF format from the NOW site or from the online Help provided with System Manager 2.0.

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