This guide provides information to upgrade HP ProLiant storage servers from Microsoft® Windows® Storage Server 2003 Service Pack 1 to Microsoft Windows Storage Server 2003 R2.
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About this guide

This guide contains procedures to upgrade HP ProLiant Storage Servers from the Microsoft Windows Storage Server Service Pack 1 (SP1) operating system to the Microsoft Windows Storage Server 2003 R2 operating system. For a list of models eligible for upgrade, see Table 5 on page 13.

In addition to being printed and included in your product upgrade kit, this guide is also provided as a PDF printable document on the HP ProLiant Storage Server Documentation CD and on the HP Web site (http://www.hp.com/support/manuals).

Intended audience

This guide is intended for use by technical professionals who are experienced with the following:

• Microsoft® administrative procedures
• System and storage configurations

Getting help

If you still have a question after reading this guide, contact an HP-authorized service provider or access our web site: http://www.hp.com/support/.

NOTE:

Known issues and work arounds for the storage server products and the service release are addressed in release notes. To view the latest version, visit http://www.hp.com/go/support. Select See support and troubleshooting information and enter a product name/number. Under self-help resources, select manuals (guides, supplements, addendums, etc.).

Related documentation

In addition to this guide, refer to the following documents for more information about using your storage server with the Windows Storage Server 2003 R2 operating system:
These documents are available on the Documentation CD or they can be obtained at http://www.hp.com/support/manuals. Select your product, then click **Technical documentation** under the Support section.

**Conventions**

This document contains the following conventions and symbols:

- Document conventions
- Text symbols
Document conventions and symbols

Table 1 Document conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue text</td>
<td>Cross-reference links and e-mail addresses</td>
</tr>
<tr>
<td>Medium blue, underlined text</td>
<td>Web site addresses</td>
</tr>
<tr>
<td>(<a href="http://www.hp.com">http://www.hp.com</a>)</td>
<td></td>
</tr>
<tr>
<td>Bold font</td>
<td>• Key names</td>
</tr>
<tr>
<td></td>
<td>• Text typed into a GUI element, such as into a box</td>
</tr>
<tr>
<td></td>
<td>• GUI elements that are clicked or selected, such as menu and list items,</td>
</tr>
<tr>
<td></td>
<td>buttons, and check boxes</td>
</tr>
<tr>
<td>Italic font</td>
<td>Text emphasis</td>
</tr>
<tr>
<td>Monospace font</td>
<td>• File and directory names</td>
</tr>
<tr>
<td></td>
<td>• System output</td>
</tr>
<tr>
<td></td>
<td>• Code</td>
</tr>
<tr>
<td></td>
<td>• Text typed at the command line</td>
</tr>
<tr>
<td>Monospace, italic font</td>
<td>• Code variables</td>
</tr>
<tr>
<td></td>
<td>• Command-line variables</td>
</tr>
<tr>
<td>Monospace, bold font</td>
<td>Emphasis of file and directory names, system output, code, and text</td>
</tr>
<tr>
<td></td>
<td>typed at the command line</td>
</tr>
</tbody>
</table>

Text symbols

⚠️ WARNING!
Indicates that failure to follow directions could result in bodily harm or death.
CAUTION:
Indicates that failure to follow directions could result in damage to equipment or data.

IMPORTANT:
Provides clarifying information or specific instructions.

NOTE:
Provides additional information.

TIP:
Provides helpful hints and shortcuts.

HP technical support
Telephone numbers for worldwide technical support are listed on the HP support web site: http://www.hp.com/support/.

Collect the following information before calling:
• Technical support registration number (if applicable)
• Product serial numbers
• Product model names and numbers
• Applicable error messages
• Operating system type and revision level
• Detailed, specific questions

For continuous quality improvement, calls may be recorded or monitored.

HP Subscriber’s choice
HP strongly recommends that customers sign up online using the Subscriber’s choice web site: http://www.hp.com/go/e-updates.
• Subscribing to this service provides you with e-mail updates on the latest product enhancements, newest versions of drivers, and
firmware documentation updates, as well as instant access to numerous other product resources.

- After signing up, you can quickly locate your products by selecting **Business support**, and then **Storage** under Product Category.

**HP-authorized reseller**

For the name of your nearest HP-authorized reseller:

- In the United States, call 1-800-282-6672.
- Elsewhere, visit the HP web site: [http://www.hp.com](http://www.hp.com). Then, click **Contact HP** to find locations and telephone numbers.

**Other helpful web sites**

For other product information, see the following HP web sites:

- [http://www.hp.com/go/storage](http://www.hp.com/go/storage)
- [http://www.hp.com/support/](http://www.hp.com/support/)
- [http://www.docs.hp.com](http://www.docs.hp.com)
- [http://www.microsoft.com](http://www.microsoft.com)
1 Overview

Upgrade process

This guide contains step-by-step instructions for upgrading an HP ProLiant Storage Server to the Windows Storage Server (WSS) 2003 R2 operating system. Windows Storage Server 2003 R2 extends the Windows Storage Server 2003 operating system (OS), providing a more efficient way to manage and control access to local and remote resources. In addition, Windows Storage Server 2003 R2 provides a scalable, security-enhanced Web platform for simplified branch server management, improved identity and access management, and more efficient storage management.

Follow the procedures in this guide to upgrade the Windows Storage Server operating systems as follows:

**Table 2 WSS 2003 R2 > R2 upgrade**

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSS 2003 R2 Workgroup OS</td>
<td>WSS 2003 R2 Standard OS</td>
</tr>
</tbody>
</table>

**Table 3 WSS 2003 SP1 > R2 upgrade**

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSS 2003 SP1 Standard OS</td>
<td>WSS 2003 R2 Standard OS</td>
</tr>
<tr>
<td>WSS 2003 SP1 Workgroup OS</td>
<td>WSS 2003 R2 Workgroup OS</td>
</tr>
<tr>
<td>WSS 2003 SP1 Enterprise OS</td>
<td>WSS 2003 R2 Enterprise OS</td>
</tr>
<tr>
<td>WSS 2003 SP1 Express OS</td>
<td>WSS 2003 R2 Express OS</td>
</tr>
</tbody>
</table>
Table 4 WSS 2003 R2 quick restore upgrade

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAUTION:</td>
<td></td>
</tr>
<tr>
<td>The quick restore upgrade replaces the existing OS with the Standard or Enterprise version of WSS 2003 R2. This procedure formats the OS partition, so all data on that partition is lost. This upgrade method is required for all legacy servers (identified in Table 5).</td>
<td></td>
</tr>
<tr>
<td>Valid existing HP NAS OS</td>
<td>WSS 2003 R2 Standard OS</td>
</tr>
<tr>
<td>Valid existing HP NAS OS</td>
<td>WSS 2003 R2 Enterprise OS</td>
</tr>
</tbody>
</table>

List of servers eligible for upgrade

Table 5 correlates operating systems with servers eligible for upgrade. The procedure for upgrading legacy servers is different than the procedure for non-legacy servers. For most servers, see Upgrading non-legacy storage servers for upgrade instructions. For legacy servers (marked with an asterisk), see Upgrading legacy storage servers.
<table>
<thead>
<tr>
<th>Upgrade OS</th>
<th>HP ProLiant storage server</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSS 2003 R2 Express OS</td>
<td>• ML110 G2 (320GB only)</td>
</tr>
<tr>
<td>WSS 2003 R2 Workgroup OS</td>
<td>• DL100 G2</td>
</tr>
<tr>
<td></td>
<td>• ML110 G2</td>
</tr>
<tr>
<td></td>
<td>• ML310 G3</td>
</tr>
<tr>
<td>WSS 2003 R2 Standard OS</td>
<td>• ML110</td>
</tr>
<tr>
<td></td>
<td>• DL100 *</td>
</tr>
<tr>
<td></td>
<td>• StorageWorks NAS 1500s *</td>
</tr>
<tr>
<td></td>
<td>• DL100 G2 File-Print</td>
</tr>
<tr>
<td></td>
<td>Appliance (640GB only)</td>
</tr>
<tr>
<td></td>
<td>• DL100 G2 DPSS</td>
</tr>
<tr>
<td></td>
<td>• ML310 G3 DPSS</td>
</tr>
<tr>
<td></td>
<td>• ML350 G4</td>
</tr>
<tr>
<td></td>
<td>• ML350 G4p</td>
</tr>
<tr>
<td></td>
<td>• ML370 G4</td>
</tr>
<tr>
<td></td>
<td>• DL380 G3 (standard edition)</td>
</tr>
<tr>
<td></td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>• StorageWorks NAS 2000s *</td>
</tr>
<tr>
<td></td>
<td>• DL380 G4</td>
</tr>
<tr>
<td></td>
<td>• DL380 G4 DPSS</td>
</tr>
<tr>
<td>WSS 2003 R2 Enterprise OS</td>
<td>• DL380 G3 (SAN Gateway</td>
</tr>
<tr>
<td></td>
<td>only) *</td>
</tr>
<tr>
<td></td>
<td>• StorageWorks NAS 4000s *</td>
</tr>
<tr>
<td></td>
<td>• DL380 G4 (SAN Gateway</td>
</tr>
<tr>
<td></td>
<td>only)</td>
</tr>
<tr>
<td></td>
<td>• StorageWorks NAS 9000s *</td>
</tr>
<tr>
<td></td>
<td>• DL580 G2</td>
</tr>
<tr>
<td></td>
<td>• DL585</td>
</tr>
</tbody>
</table>

* Legacy server. Refer to Upgrading legacy storage servers for upgrade instructions.
Requirements for upgrade process

Before you begin the upgrade process, carefully review the requirements listed below. In some instances, the upgrade process will not be complete if these requirements are not met.

Before you begin

⚠️ CAUTION:
Once you begin the upgrade process, you cannot undo this process or uninstall the upgrade. **Complete a full-system backup including system state information and all user data before you begin the upgrade process.** Store this backup in a remote location, so it will be available if you need to restore the system to the point before the upgrade begins.

You should complete the following tasks before upgrading to Windows Storage Server 2003 R2:

- Install Service Pack 1 (SP1) from Service Release 5.5 or Service Release 5.6.
- If applicable, make a note of your Microsoft Services for Network File System (NFS) settings (see below).
- If applicable, uninstall HP ProLiant Storage Server iSCSI Feature Pack software. This software will not run under Windows Storage Server 2003 R2.

Important information about upgrade requirements


NOTE:

• You cannot uninstall Windows Storage Server 2003 R2 once it is installed.
• Help files and other obsolete documents that are no longer valid will be removed by the upgrade process.
• The upgrade process provides a new network-attached interface for storage sever management called the HP Storage Server Management console. The upgrade process removes the existing Windows Storage Server 2003 Web UI, which is now obsolete.
• The upgrade process installs a new File Server Resource Manager (FSRM), which replaces the existing Storage Manager software. The new Quota settings are not migrated during the upgrade process; however, with non-legacy platforms (see Table 5), existing settings are listed in the SM_SaveConfig.txt file, which is placed on your desktop.
• The upgrade process uninstalls Windows Storage Server Feature Pack. The upgrade process removes only the Web UI plug-in component.
• With non-legacy platforms (see Table 5), the shared resources that were created on the NAS server and the Exchange server configuration are preserved. For information about how to install the Exchange Feature Pack in Windows Storage Server 2003 R2, see Appendix B: Installing Exchange Feature Pack.
• Before you begin the upgrade process, you need to record the setting for Microsoft Services for NFS; see Appendix A: Recording settings for Microsoft Services for NFS.
• The following NFS features are not available in Windows Storage Server 2003 R2. If you require these features and cannot transfer them to another server, do not attempt the upgrade process.
  • Gateway for NFS
  • Server for PCNFS

What you get with an R2 upgrade

HP Storage Server Management console

The HP Storage Server Management console (see HP Storage Management Console) is a new user interface in Windows Storage Server 2003 R2 that provides one place to manage files or print serving components. The console is also accessible using Remote Desktop or a web browser.
The Storage Management page provides a portal to:

- File Server Resource Manager
- DFS Management
- Disk and Volume Management
- Indexing Service
- MSNFS (under Share Folder)
- Cluster Management (under Utilities)
The Share Folder Management feature provides a portal to Shared Folders, consisting of:

- Shares
- Sessions
- Open Files

Integrated Microsoft Services for NFS components

Windows Storage Server 2003 R2 contains integrated Microsoft Services for NFS components. For example:

- Server for NFS
- Client for NFS

Before you begin the upgrade process, record the setting for Microsoft Services for NFS; see Appendix A: Recording settings for Microsoft Services for NFS for more information.

Remote connectivity through Distributed File System (DFS)

Windows Server 2003 R2 provides Distributed File System (DFS) capabilities that are focused on the need to replicate data with remote branch offices over wide area networks (WANs). These include:

- New DFS UI console
- New DFS Replication that uses the Remote Differential Compression (RDC) algorithm
- New DFS Cross File RDC capability when Windows Storage Server 2003 R2 Enterprise Edition is at one end of the hub/branch link
• Updated DFS namespace failover, failback, and prioritization controls

Single-Instance Storage (SIS) enhancements (Standard and Enterprise OS only)

With Windows Storage Server 2003 R2, SIS includes a copy-on-write link between identical files, reducing the amount of redundant data stored on a server. This feature is similar to the symbolic link feature implemented in UNIX and other operating systems. However, SIS differs from symbolic links in three ways:

1. If two files share disk storage using SIS and someone modifies one of the files, users of the second files do not see the changes. The two files are linked if they are identical in content. In files using symbolic links, changes made through one of the links change the content of all links to a file.

2. The shared disk storage that underlies SIS links is maintained by the system. This storage is deleted only if all the SIS links pointing to it are deleted. In files using symbolic links, the link can break if a user deletes the target file.

3. SIS works automatically without any user involvement. By contrast, symbolic links must be set up and maintained by the user. SIS automatically determines if two or more files have the same content and links them together.

NOTE:


IMPORTANT:

If a backup program is not aware of SIS files, the application makes duplicate copies of the SIS files in the backup data file. When restored, this creates normal files instead of reparse points. The SIS groveler eventually combines these files, but sometimes this activity does not happen in time to prevent the restore operation from running out of disk space.
Enhanced indexing

In Windows Storage Server 2003 R2, the indexing service is tuned for enhanced indexing and query performance. Before the R2 release, if the indexing service was not entirely up-to-date, the client search engine was required to check every file within the scope of the search on the server. With Windows Storage Server 2003 R2, performance tuning of the indexing service is included in the operating system. The indexing service no longer needs to be 100 percent up-to-date to be used.

The amount of disk space the indexing service requires depends on how much text is in the data files that are being indexed. Pure text files (.txt) usually require an additional 30 percent of disk space for the index, but these are the most data-intensive file types. Other file types that also include non-text data (for example, graphics, audio, and binary data) require less index space.

NOTE:
The SIS common store is automatically excluded from being indexed, so files will not be indexed twice.
2 Upgrading non-legacy storage servers

Running the HP ProLiant Storage Server R2 Update DVD

1. Power on the HP ProLiant Storage Server.
2. Insert HP ProLiant Storage Server R2 Update DVD into the disk drive on the storage server.

NOTE:
If you have auto run enabled, the upgrade will automatically begin.

3. Open Windows Explorer, access the DVD disk drive, and double-click the storage server.
5. Read the End User License Agreement (EULA) and click **Accept**.

6. If the R2 Uninstall Warning prompt displays, click **OK**.

![R2 Uninstall Warning](image)

The R2 upgrade cannot be uninstalled. Press OK to continue or Cancel to end the upgrade process.

7. Enter a user ID and password for this storage server (with local administrator rights), and click **Accept**.

![HP ProLiant Storage Server Upgrade to Windows Storage Server R2](image)

**User with Administrator Privileges**

**Administrator**

**Password**

**Verify Password**

**Domain**

**IMPORTANT:**

You must have administrative rights to enter a user name and password for the storage server.
8. If Microsoft Services for UNIX 3.5 (SFU 3.5) is found on the storage server, uninstall it by clicking **Accept**.
WARNING!

Interrupting the uninstall process will damage the upgrade process. This SFU 3.5 uninstall process starts a progress window and reboots the machine when uninstallation is complete.

- Do not interrupt this process. The system will reboot when removal is complete.
- All NFS connections will be lost.
- The system will reboot automatically when complete.
9. Once the storage server reboots, the update process begins. You see the screen below.

⚠️ CAUTION:

Interrupting the update process will cause data loss.

The update process automatically cycles through the following steps.

**Table 6 Automatic update process**

<table>
<thead>
<tr>
<th>Action</th>
<th>Automatic Update Process</th>
</tr>
</thead>
</table>
| Uninstalls these components (if they are present on operating system): | • Microsoft Services for Network File System (NFS)  
  • Exchange Feature Pack for Windows Storage Server 2003  
  • Storage Manager  
  • Server Appliance Kit  
  • Cluster components |
| Installation of these components:                | Microsoft .NET Framework 2.0 |
10. If prompted to insert Service Pack 1 CD-ROM, click OK.

![Insert Disk]

NOTE: Repeat this step as necessary to continue upgrade process.

11. If prompted for needed files, click Browse and Open, then click OK.

![Files Needed]

If Confirm File Replace pop-up message appears, click YES.

After uninstalling components, the HP ProLiant Storage Server configures newly installed components. The screen below is displayed.
Next, HP ProLiant Storage Server Upgrade reboots the storage server again.
Next, HP ProLiant Storage Server Upgrade completes the system upgrade process. You see the screen below.

Next, HP ProLiant Storage Server Upgrade completes the cleanup process. You see the screen below.
12. The HP ProLiant Storage Server Upgrade prompts you to complete the system upgrade process. Click **Finish**.

13. Click **Finish** to automatically reboot the storage server.

Additional update tasks

After the storage server is upgraded, you can perform the following tasks:

- Rebuild directory quotas
- Rebuild NFS shares
Upgrading non-legacy storage servers
3 Upgrading legacy storage servers

Refer to Table 5 for a list of legacy storage servers.

⚠️ CAUTION:

The quick restore upgrade replaces the existing OS with the Standard or Enterprise version of WSS 2003 R2. This procedure formats the OS partition, so all data on that partition is lost. This upgrade method is required for all legacy servers (identified in Table 5).

⚠️ CAUTION:

The upgrade process installs a new File Server Resource Manager (FSRM), which replaces the existing Storage Manager software. The current Quota settings are not saved and will be lost.

⚠️ CAUTION:

The upgrade process does not preserve NFS settings. Before performing the upgrade, refer to Appendix A: Recording settings for Microsoft Services for NFS for instructions on recording current NFS settings. HP strongly recommends saving the NFS settings to a temporary location on another server.

🔗 IMPORTANT:

The System Installation and Recovery DVD performs OS installation and configuration. Keep this DVD in a safe place. After initial configuration, you can use this DVD to restore the operating system to factory defaults.

To upgrade a legacy storage server:

1. Connect a keyboard, monitor, and mouse directly to the storage server.
2. Insert the System Installation and Recovery DVD in the drive and allow the machine to boot from the DVD.

⚠️ **CAUTION:**
Do not interrupt the installation process.

🔍 **NOTE:**
If you are installing the OS for the first time, the process completes with no intervention required. The machine automatically reboots more than once.

3. When processing is complete, log in to the storage server using the following credentials:
   - Administrator name: **administrator**
   - Password: **hpinvent**

For more information about using the System Installation and Recovery DVD for installation or system recovery, see [http://www.hp.com/go/nas](http://www.hp.com/go/nas).
A Recording settings for Microsoft Services for NFS

Before you uninstall Microsoft Services for NFS, you need to record the NFS settings shown in Microsoft Services for NFS settings on page 34. Save this information, because you use it to restore Microsoft Services for NFS on the new operating system.
<table>
<thead>
<tr>
<th>Settings</th>
<th>What to do:</th>
<th>Record NFS data here</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server for NFS shares</strong></td>
<td>Discover the NFS share settings by running NFSSHARE. For each share listed by NFSSHARE, run NFSSHARE share_name.</td>
<td>Share name:</td>
</tr>
<tr>
<td><strong>Server for NFS client groups</strong></td>
<td>Discover the client group settings by running NFSADMIN SERVER LISTGROUPS. For each client group NFSADMIN lists, run NFSADMIN SERVER LISTMEMBERS group_name.</td>
<td>Group members:</td>
</tr>
<tr>
<td><strong>Server for NFS settings</strong></td>
<td>Discover the Server for NFS settings by running: NFSADMIN SERVER.</td>
<td>Server settings:</td>
</tr>
<tr>
<td><strong>User name mapping data</strong></td>
<td>Backup Windows-to-UNIX account mappings by running MAPADMIN BACKUP file_name.</td>
<td>File name:</td>
</tr>
<tr>
<td><strong>User name mapping hosts</strong></td>
<td>Backup the .maphosts file by copying the %sfudir%\mapper.maphosts file to a safe location.</td>
<td>File location:</td>
</tr>
</tbody>
</table>
After you uninstall Microsoft Services for NFS and complete the upgrade process, run Nasr2 setup and install NFS components. Then, follow the steps below to restore the Microsoft Services for NFS settings using the data from Microsoft Services for NFS settings:

1. Copy the .maphosts file to the %windir%\msnfs directory.
2. To restore Windows-to-UNIX account mappings, enter the following at a DOS command prompt:
   MAPADMIN RESTORE file_name
3. To setup the server for NFS settings, enter the following:
   NFSADMIN SERVER CONFIG all_config_options
4. To setup client groups, enter the following:
   NFSADMIN SERVER CREATEGROUP group_name
   NFSADMIN SERVER ADDMEMBERS group_name host1 host2
5. To setup NFS shares, enter the following:
   NFSSHARE share_name=drive: path all_share_options
6. Stop/start all NFS services:
   • Run NET STOP “Client for NFS”
   • Run NET STOP "Server for NFS"
   • Run NET STOP "User Name Mapping"
   • Run NET START "User Name Mapping"
   • Run NET START "Server for NFS"
   • Run NET START "Client for NFS"
36

Recording settings for Microsoft Services for NFS
B Installing Exchange Feature Pack

To install the Exchange Feature Pack in Windows Storage Server 2003 R2:


2. From the Exchange Server, execute \SETUP\EXE from the share created in step 1.

3. On the computer running Windows Storage Server 2003 R2, create shares to contain the Exchange files. Each share must have at least the following permissions on both the share and the underlying folder on the computer running Windows Storage Server 2003 R2:
   - Domain Administrator – Full Control
   - Exchange Server Computer Account – Full Control
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