



VERITAS NetBackup™ 6.0

Backup, Archive, and Restore Getting Started Guide

for UNIX, Windows, and Linux

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Preface

This guide for new users of NetBackup describes how to use the NetBackup Backup, Archive, and Restore interface to back up and restore files on:

- ◆ UNIX, Linux, and Macintosh OS X systems
- ◆ Microsoft Windows 2000, Windows XP, and Windows Server 2003 systems

Getting Help

You can find answers to questions and get help from the NetBackup documentation and from the VERITAS technical support web site.

Finding NetBackup Documentation

A list of the entire NetBackup documentation set appears as an appendix in the *NetBackup Release Notes*. All NetBackup documents are included in PDF format on the NetBackup Documentation CD.

For definitions of NetBackup terms, consult the online glossary.

▼ To access the NetBackup online glossary

1. In the NetBackup Administration Console, click **Help > Help Topics**.
2. Click the **Contents** tab.
3. Click **Glossary of NetBackup Terms**.

Use the scroll function to navigate through the glossary.

Accessing the VERITAS Technical Support Web Site

The address for the VERITAS Technical Support Web site is <http://support.veritas.com>.

Getting Help

The VERITAS Support Web site lets you do any of the following:

- ◆ Obtain updated information about NetBackup, including system requirements, supported platforms, and supported peripherals
- ◆ Contact the VERITAS Technical Support staff and post questions to them
- ◆ Get the latest patches, upgrades, and utilities
- ◆ View the NetBackup Frequently Asked Questions (FAQ) page
- ◆ Search the knowledge base for answers to technical support questions
- ◆ Receive automatic notice of product updates
- ◆ Find out about NetBackup training
- ◆ Read current white papers related to NetBackup

From <http://support.veritas.com>, you can complete various tasks to obtain specific types of support for NetBackup:

1. Subscribe to the VERITAS Email notification service to be informed of software alerts, newly published documentation, Beta programs, and other services.
 - a. From the main <http://support.veritas.com> page, select a product family and a product.
 - b. Under Support Resources, click **Email Notifications**.

Your customer profile ensures you receive the latest VERITAS technical information pertaining to your specific interests.
2. Locate the telephone support directory at <http://support.veritas.com> by clicking the **Phone Support** icon. A page appears that contains VERITAS support numbers from around the world.

Note Telephone support for NetBackup is only available with a valid support contract. To contact VERITAS for technical support, dial the appropriate phone number listed on the Technical Support Guide included in the product box and have your product license information ready for quick navigation to the proper support group.

3. Contact technical support using e-mail.

- a. From the main <http://support.veritas.com> page, click the **E-mail Support** icon.

A wizard guides you to do the following:

- ◆ Select a language of your preference
- ◆ Select a product and a platform
- ◆ Provide additional contact and product information, and your message
- ◆ Associate your message with an existing technical support case

- b. After providing the required information, click **Send Message**.

Contacting VERITAS Licensing

For license information, you can contact us as follows:

- ◆ Call 1-800-634-4747 and select option 3
- ◆ Fax questions to 1-650-527-0952
- ◆ In the Americas, send e-mail to amercustomercore@veritas.com.

In the Asia and Pacific areas, send email to apaccustomercore@veritas.com.

In all other areas, send email to internationallicense@veritas.com.

Accessibility Features

NetBackup contains features that make the user interface easier to use by people who are visually impaired and by people who have limited dexterity. Accessibility features include:

- ◆ Support for assistive technologies such as screen readers and voice input (Windows servers only)
- ◆ Support for keyboard (mouseless) navigation using accelerator keys and mnemonic keys

For more information, see the *NetBackup Installation Guide*.

Comment on the Documentation

Comment on the Documentation

Let us know what you like and dislike about the documentation. Were you able to find the information you needed quickly? Was the information clearly presented? You can report errors and omissions or tell us what you would find useful in future versions of our manuals and online help.

Please include the following information with your comment:

- ◆ The title and product version of the manual on which you are commenting
- ◆ The topic (if relevant) on which you are commenting
- ◆ Your comment
- ◆ Your name

Email your comment to NBDocs@veritas.com.

Please only use this address to comment on product documentation. See “Getting Help” in this preface for information on how to contact Technical Support about our software.

We appreciate your feedback.

Introduction

1

This guide provides information about basic user-directed back up and restore procedures for new users of NetBackup.

Overview

NetBackup lets you back up, archive, and restore files, folders/directories, and volumes/partitions that reside on your computer. The computer that needs the backup or restore is the *client*; the computer that manages the backup and retrieval of the data is the *server*.

Backup, Archive, and Restore is your interface to the NetBackup client software on your computer. When you start a backup or archive operation, the client software on your computer sends the data to be backed up to the NetBackup server, which writes it to a storage device. When you start a restore operation, the client software on your computer requests the data from the NetBackup server, and the server sends the data to the client so it can be restored.

The NetBackup administrator configures *policies* that define the rules that NetBackup follows when backing up clients. The policies include schedules for automatic, unattended backups of the NetBackup clients (*server-directed backups*). Policies also define when you can back up and restore files manually (*user-directed operations*). For example, if the time range in which you can perform user-directed operations (your *user window*) is from 8 am to 6 pm, you will not be able to back up or archive at other times (although you can restore at any time).

All of the files, folders/directories, and volumes/partitions from a backup job (either server- or user-directed) are stored in a *backup image*. When you restore files, you select the items to restore from a backup image or from multiple backup images. Backup images can expire after a certain amount of time (configured by your NetBackup administrator); if a backup image expires, you cannot see or restore its files.

Installing and Configuring

The NetBackup administrator installs and configures NetBackup, which includes the following:

- ◆ Installing and configuring the client software and the Backup, Archive, and Restore interface on the computers that will be backed up in your computing environment.
- ◆ Configuring the client software to work with the NetBackup servers in your environment.

If user-directed operations are allowed in your NetBackup environment, you should not have to configure Backup, Archive, and Restore so it functions properly.

Normally, Backup, Archive, and Restore configuration changes are performed by the NetBackup administrator. If you have to change the configuration, consult your NetBackup administrator.

More Information in Online Help

This guide provides basic backup, archive, and restore procedures; for more information, see the help. The help includes the following:

- ◆ Information about restore destinations, restore options, and restoring from specific dates
- ◆ Procedures for other restore operations:
 - ◆ Restoring from raw partition (UNIX) and disk image (Windows) backups
 - ◆ Restoring from true image backups
 - ◆ Restoring from VERITAS Backup Exec backups
 - ◆ Restoring by proxy (Windows)
 - ◆ Redirecting restores to different clients (administrators only)
- ◆ Procedures for finding the items you want to restore
- ◆ Procedures for specifying other backup servers (if allowed in your environment)
- ◆ A reference that describes windows, menus, and dialogs.

You can invoke help from the **Help** menu or from **Help** buttons in dialogs.

Getting Started with UNIX and Linux

2

This section provides information about starting Backup, Archive, and Restore and performing basic backup and restore procedures on UNIX, Linux, and Macintosh OS X systems. On UNIX, Linux, and Macintosh OS X systems, Backup, Archive, and Restore is a Java-based, graphical user interface.

- ◆ “Setting Up Your Window Manager” on page 3
- ◆ “Starting Backup, Archive, and Restore” on page 4
- ◆ “Backing Up or Archiving Files, Directories, and Partitions” on page 5
- ◆ “Restoring Files, Directories, and Partitions” on page 8
- ◆ “Other UNIX Interfaces” on page 11

Setting Up Your Window Manager

Set your window manager so windows become active only when you click inside the windows. Do not enable auto focus, which is when windows become active when you move the mouse pointer over them. The NetBackup Java interface does not run properly with auto focus enabled.

Common Desktop Environment (CDE)

The following explains how to set up a CDE window manager, which is the preferred window manager for NetBackup Java applications.

▼ To configure CDE for Backup, Archive, and Restore

1. On the front panel in the CDE window, click the Style Manager control icon.
The Style Manager toolbar appears.
2. On the Style Manager toolbar, click the Window control icon.
The Style Manager - Window dialog appears.

Starting Backup, Archive, and Restore

3. In the Style Manager - Window dialog , click the **Click In Window To Make Active** button.
4. Click **OK**.
5. Click **OK** when asked to Restart the Workspace Manager.

Motif

When using the Motif window manager, set the `Mwm*keyboardFocusPolicy X` resource as follows:

```
Mwm*keyboardFocusPolicy:explicit
```

Starting Backup, Archive, and Restore

You can use Backup, Archive, and Restore to log in to a NetBackup client on a UNIX system on which have a user account and then perform back ups, archives, and restores on that client.

▼ To start Backup, Archive, and Restore

1. Log in to the computer where you are going to start Backup, Archive, and Restore.
2. Start Backup, Archive, and Restore by entering the following:

```
/usr/opensv/netbackup/bin/jbpSA &
```

The Login dialog appears.

3. Enter the name of the client where you want to perform the backup, archive, or restore.

You must have a valid user account on that client and have access to that client.

4. Enter your user name.
5. Enter your password.
6. Click **Login**.

For a description of the Backup, Archive, and Restore interface and directions about how to use it, see the help. For information about `jbpSA` command options, see the `jbpSA(1)` man page.

Backing Up or Archiving Files, Directories, and Partitions

Use the following procedure to back up or archive files, directories, and partitions.

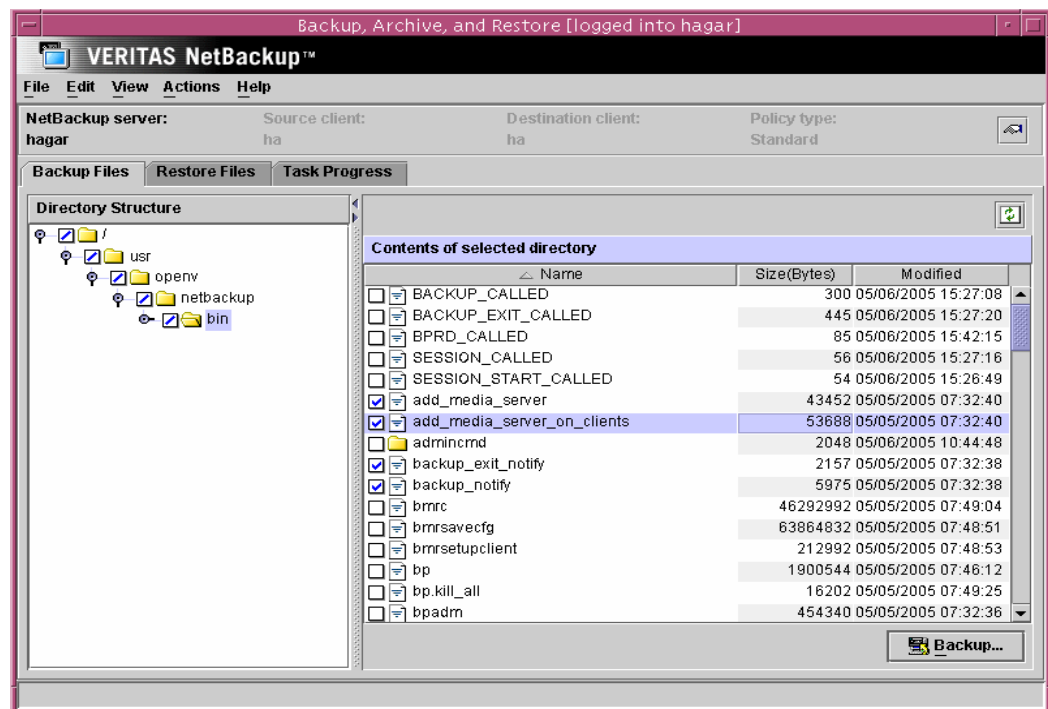
Backing up copies the selected items; archiving copies the selected items and then deletes the items after they are backed up.

For more information about using Backup, Archive, and Restore, see the online help.

▼ To back up using Backup, Archive, and Restore

1. Click the **Backup Files** tab.

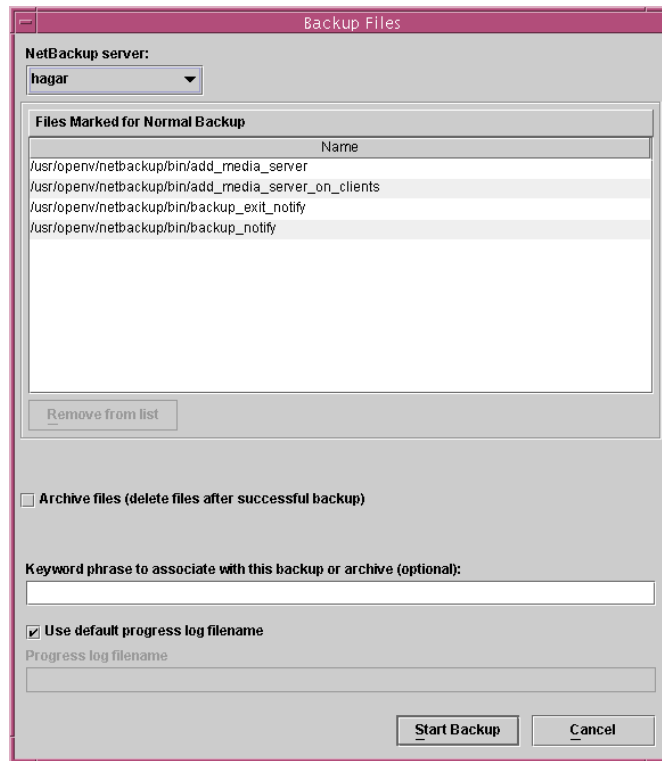
The title bar of the tab displays the names of the server, source and destination clients, and policy used for the operation.



2. Select the items that you want to back up. To select an item, click in the check box to the left of the item. A check mark indicates an item is selected; a diagonal slash mark indicates that only some items within a directory are selected. You can select items in the Directory Structure pane or the Contents pane.
3. Click **Backup**.

Backing Up or Archiving Files, Directories, and Partitions

The Backup Files dialog appears.



4. Select or specify any of the following options:
 - ◆ **NetBackup Server.** To change the NetBackup server that will perform the backup operation, select a different server from the drop-down list. Normally, you will not have to specify a different master server; however, if you can send your backups to more than one master server, ensure that you specify the correct one.
 - ◆ **Archive files (delete files after successful backup).** To delete the items after they are backed up successfully, select this option.
 - ◆ **Keyword phrase to associate with this backup or archive (optional).** To link a keyword phrase to the backup, enter a keyword phrase. When restoring files, you can search by keyword for items that were backed up.
 - ◆ **Use default progress log filename.** To write the backup progress messages to a log file other than the default, deselect **Use default progress log filename** and then enter the name of the alternative progress log in the **Progress log filename** field.
5. Click **Start Backup**.

Backing Up or Archiving Files, Directories, and Partitions

A dialog appears, indicating that the backup was started successfully and asking if you want to view the progress of the operation.

6. Click **Yes** to open the Task Progress tab, from which you can view the progress of the backup or archive operation.

The operation may take a few minutes to complete. You can close Backup, Archive, and Restore after starting a backup operation. NetBackup continues the backup operation in the background.

Restoring Files, Directories, and Partitions

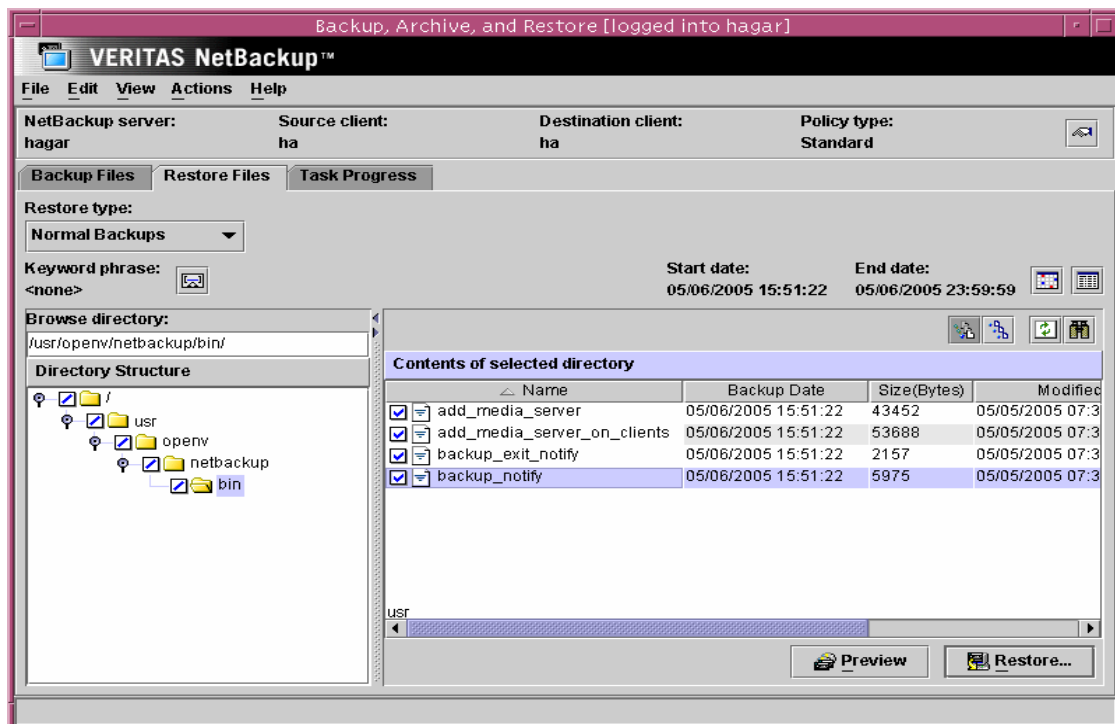
Use the following procedure to restore from a normal or archived backup. The restore procedure is the same except a normal backup leaves the original files on the disk and an archive backup deletes the files after backing them up. Most backups are normal backups.

For other types of restores, see their instructions in the online help.

▼ To restore using Backup, Archive, and Restore

1. Click the **Restore Files** tab.

The title bar of the window tab displays the names of the server, source and destination clients, and policy used for the operation.



2. Select **Normal Backups** or **Archived Backups** from the **Restore Type** list box (depending on whether you are restoring from a normal backup or an archive).
3. Click **View > Refresh**.

The items you can restore are displayed in the Contents pane.

4. Select items to restore.

To select an item, click in the check box to the left of the item. A check mark indicates an item is selected; a diagonal slash mark indicates that only some items within a directory are selected. You can select items in the Directory Structure pane or the Contents pane.

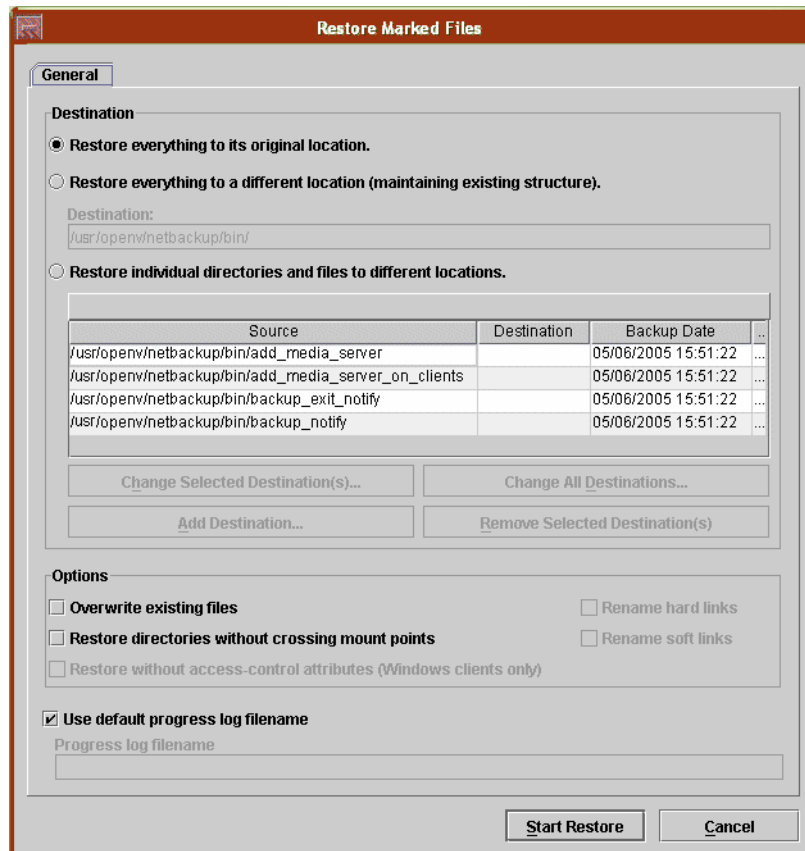
5. To preview a list of the media required for restore, click **Preview**.

If the backup images required to restore the data are on disk storage units rather than removable media such as tape, no media will be listed if you try to preview media.

Click **OK** to close the dialog.

6. Click **Restore**.

The Restore Marked Files dialog appears. The items marked for restore are listed in the dialog window.



Starting from a Windows System

7. Select a restore destination:

- ◆ **Restore everything to its original location**
- ◆ **Restore everything to a different location**
- ◆ **Restore individual directories and files to different locations**

By default, **Restore everything to its original location** is selected.

8. Select restore options:

- ◆ **Overwrite the existing file**
- ◆ **Restore directories without crossing mount points**
- ◆ **Restore without access control attributes**
- ◆ **Rename hard links**
- ◆ **Rename soft links**

9. To write the progress messages to a log file other than the default, deselect **Use default progress log filename** and then enter the name of the alternative progress log.

10. Click **Start Restore**.

A dialog appears, indicating that the restore began successfully and asking if you want to view the progress of the operation.

11. To view the status of the restore, click **Yes** in the dialog.

The Task Progress tab appears, from which you can view the progress of the restore.

The restore may take a few minutes to complete. After starting a restore operation, you can close Backup, Archive, and Restore and perform other tasks on your computer. NetBackup will continue the restore operation in the background.

Starting from a Windows System

If the Java Windows Administration Console is installed on a Microsoft Windows system, you can run the Java Backup, Archive, and Restore interface on a Windows system and log into a NetBackup UNIX client to perform user-directed operations on that client. You must log into a UNIX system using the Java Windows Administration Console; you cannot log into a Windows system.

▼ To start the Windows Administration Console

1. On the Windows Start menu, click **Programs > VERITAS NetBackup > NetBackup - Java Version 6.0**.

The Login dialog appears.

2. Enter the name of the client where you want to perform the backup, archive, or restore.

You must have a valid user account on that client and have access to that client.

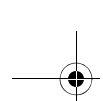
3. Enter your user name.
4. Enter your password.
5. Click **Login**.

Other UNIX Interfaces

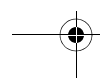
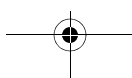
NetBackup provides several other interfaces to the client software on UNIX systems:

- ◆ **Menu user interface.** You can use the menu interface on terminals that can connect to a client system. The `bp` command starts the menu interface program. For information about using the menu user interface, see the `bp(1)` man page and the help in the interface.
- ◆ **Commands.** Commands let you perform backup, archive, restore operations from a shell prompt. For command information, see the *NetBackup Commands for UNIX* guide.

Although you can perform user-directed operations through any of these interfaces, VERITAS recommends that you use the Backup, Archive, and Restore interface for user-directed operations.



Other UNIX Interfaces



Getting Started with Windows

3

This section provides information about starting Backup, Archive, and Restore and performing basic backup and restore procedures on Microsoft Windows systems.

- ◆ “Starting Backup, Archive, and Restore” on page 13
- ◆ “Backing Up or Archiving Using Backup, Archive, and Restore” on page 13
- ◆ “Backing Up Using Windows Explorer” on page 16
- ◆ “Backing Up Using NetBackup Bin” on page 16
- ◆ “Restoring Files, Folders, and Volumes” on page 18

Starting Backup, Archive, and Restore

- ❖ On the Windows **Start** menu, click **Programs > VERITAS NetBackup > Backup, Archive, and Restore**.

If NetBackup Access Management is used to control access to your NetBackup environment, you may be required to enter a user name, password, and domain information.

For a description of the Backup, Archive, and Restore interface and directions about how to use it, see the help.

Backing Up or Archiving Using Backup, Archive, and Restore

Use the following procedure to back up or archive files, folders, volumes, registry keys, Windows system state, Windows system service, and Windows shadow copy components.

Backing up copies the selected items; archiving copies the selected items and then deletes the items after they are backed up.

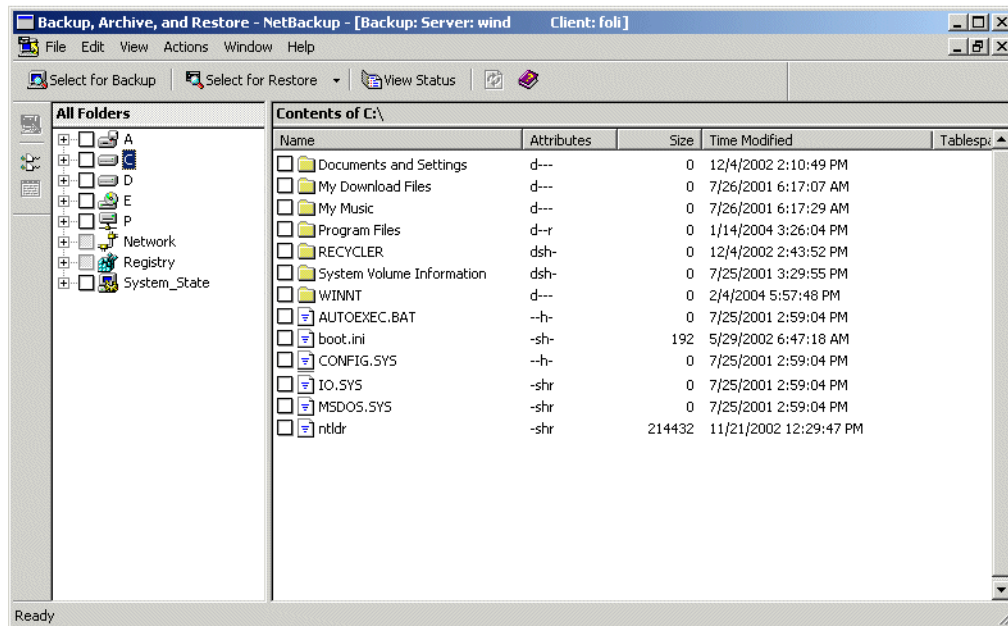
For more information about using Backup, Archive, and Restore, see the online help.

Backing Up or Archiving Using Backup, Archive, and Restore

▼ To back up using Backup, Archive, and Restore

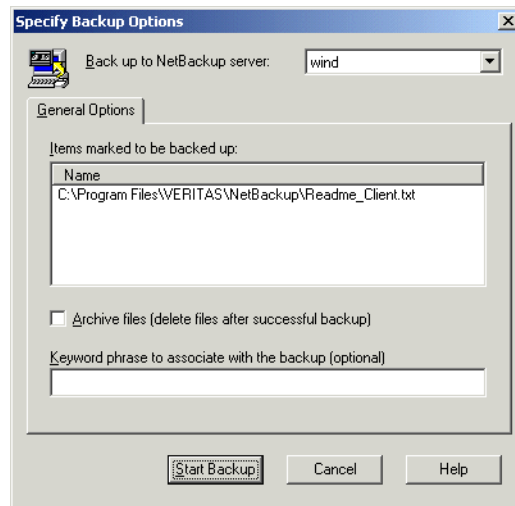
1. Open a Backup window (on the **File** menu, click **Select Files and Folders to Backup**).

The title bar of the window displays the names of the server and client used for the operation.



2. Select the items that you want to back up. To select an item, click in the check box to the left of the item. A check mark indicates an item is selected; a diagonal slash mark indicates that only some items within a folder are selected. You can select items in the All Folders pane or the Contents pane.
3. On the **Actions** menu, click **Start Backup of Marked Files**.

The Specify Backup Options dialog appears.



4. Select or specify any of the following options:

- ◆ **Back up to NetBackup Server.** To change the NetBackup server that will perform the backup operation, select a different server from the drop-down list. Normally, you will not have to specify a different master server; however, if you can send your backups to more than one master server, ensure that you specify the correct one.
- ◆ **Archive files (delete files after successful backup).** To delete the items after they are backed up successfully, select this option.
- ◆ **Keyword phrase to associate with the backup (optional).** To link a keyword phrase to the backup, enter a keyword phrase. When restoring files, you can search by keyword for items that were backed up.

5. Click **Start Backup**.

A dialog appears, indicating that the backup was started successfully and asking if you want to view the progress of the operation.

6. Click **Yes** to open the View Status dialog , from which you can view the progress of the backup or archive operation.

The operation may take a few minutes to complete. You can close Backup, Archive, and Restore after starting a backup operation. NetBackup continues the backup operation in the background.

Backing Up Using Windows Explorer

If your system is configured to use NetBackup Explorer Extensions, you can use Windows Explorer to back up files, folders, or volumes.

Note To back up files using Windows Explorer, NetBackup Explorer Extensions must be installed in your NetBackup environment and must be enabled. To enable this feature, select **NetBackup Explorer Extensions** from the Backup, Archive, and Restore **File** menu.

▼ To back up using Windows Explorer

1. Open Windows Explorer. (On the Windows **Start** menu, click **Programs > Accessories > Windows Explorer**.)
2. Find and select the file or folder you want to back up and right-click on it.
3. Click **Backup Now**.

A dialog prompts you to continue or cancel the backup operation.

4. To begin the backup operation, click **Yes**.

To show the progress of the backup operation, select **Automatically Show Progress Log** before you begin the backup operation.

Backing Up Using NetBackup Bin

If your system is configured to use NetBackup Explorer Extensions, you can use NetBackup Bin to back up files. NetBackup Bin is a folder into which you can place files that you want to back up. The folder is represented by a NetBackup Bin icon on your desktop:



Note To use NetBackup Bin, NetBackup Explorer Extensions must be installed in your NetBackup environment and must be enabled. To enable this feature, select **NetBackup Explorer Extensions** from the Backup, Archive, and Restore **File** menu.

▼ **To back up a file using NetBackup Bin**

1. Open Windows Explorer. (On the Windows **Start** menu, click **Programs > Accessories > Windows Explorer**.)
2. Find and select the file or folder you want to back up.
3. Drag the file to the NetBackup Bin icon on your desktop or to the NetBackup Bin folder in Windows Explorer.
4. Right-click on the NetBackup Bin icon on your desktop or the NetBackup Bin folder in Windows Explorer and click **Backup Now**.

A dialog prompts you to continue or cancel the backup operation.

5. To begin the backup operation, click **Yes**.

To show the progress of the backup operation, select **Automatically Show Progress Log** before you begin the backup operation.

To view the files in the NetBackup Bin folder, double-click on the NetBackup Bin icon on your desktop or right-click on the NetBackup Bin folder in Windows Explorer and then click **Open**.

Restoring Files, Folders, and Volumes

Restoring Files, Folders, and Volumes

Use the following procedure to restore from a normal or archived backup. The restore procedure is the same except a normal backup leaves the original files on the disk and an archive backup deletes the files after backing them up. Most backups are normal backups.

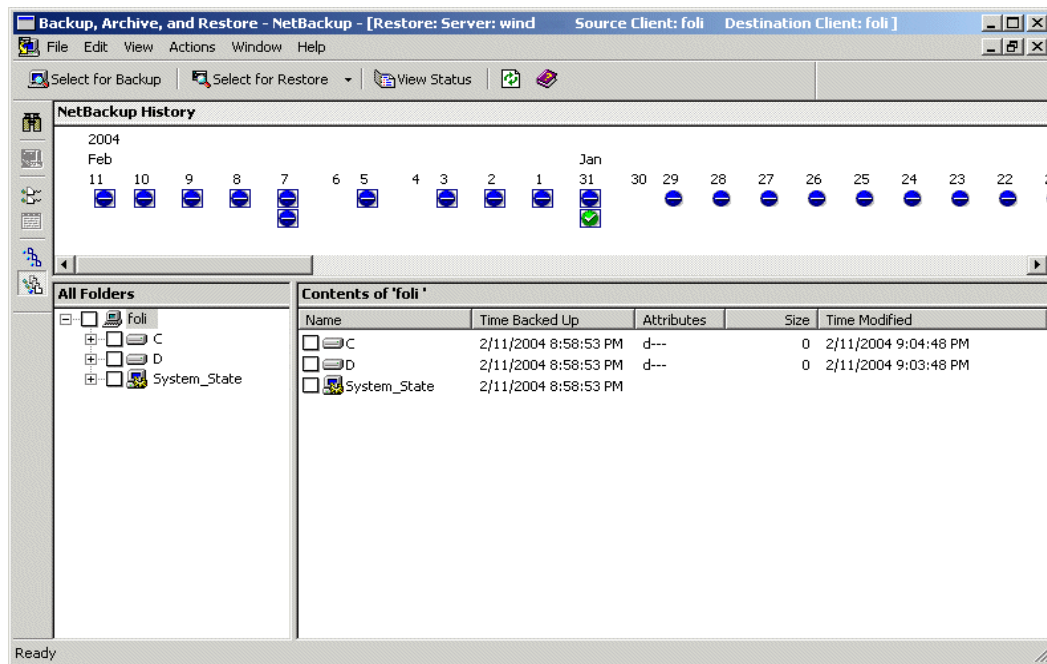
For other types of restores, see their instructions in the online help.

▼ To restore using Backup, Archive, and Restore

1. On the **File** menu, click **Select Files and Folders to Restore** then click either **from Normal Backup** or **from Archived Backup** (depending on whether you are restoring from a normal backup or an archive).

There may be a delay while NetBackup reads information about the backups and builds the list of files you can restore.

The title bar of the window displays the names of the server and client used for the operation.



2. Select items to restore.

To select an item, click in the check box to the left of the item. A check mark indicates an item is selected; a diagonal slash mark indicates that only some items within a folder are selected. You can select items in the All Folders pane or the Contents pane.

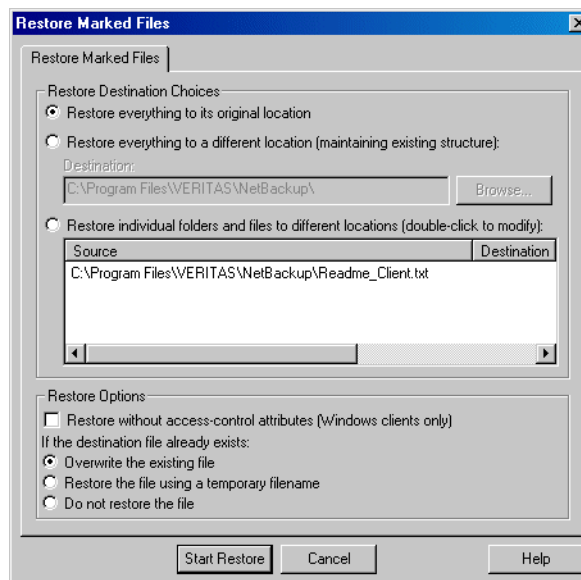
3. To preview a list of the media required for restore, select **Actions > Preview Media**.

If the backup images required to restore the data are on disk storage units rather than removable media such as tape, no media will be listed if you try to preview media.

Click **OK** to close the dialog.

4. On the **Actions** menu, click **Start Restore of Marked Files**.

The Restore Marked Files dialog appears. The items marked for restore are listed in the dialog window.



5. Select a restore destination:
 - ◆ **Restore everything to its original location**
 - ◆ **Restore everything to a different location**
 - ◆ **Restore individual folders and files to different locations**By default, **Restore everything to its original location** is selected.
6. Select restore options:
 - ◆ **Restore without access control attributes**

Restoring Files, Folders, and Volumes

- ◆ **Overwrite the existing file**
- ◆ **Restore the file using a temporary filename**
- ◆ **Do not restore the file**

By default, **Do not restore the file** is selected.

7. Click **Start Restore.**

A dialog appears, indicating that the restore began successfully and asking if you want to view the progress of the operation.

8. To view the status of the restore, click **Yes in the dialog.**

The View Status dialog appears, from which you can view the progress of the restore.

The restore may take a few minutes to complete. After starting a restore operation, you can close Backup, Archive, and Restore and perform other tasks on your computer. NetBackup will continue the restore operation in the background.