VERITAS NetBackup™ 3.4.1

Installation Guide

Windows NT/2000

VERITAS

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Preface

The purpose of this guide is to help NetBackup system administrators install NetBackup™ DataCenter and NetBackup BusinesServer™. The NetBackup system administrator is responsible for maintaining backups and disaster recovery plans using NetBackup.

This guide assumes:

◆ A basic understanding of Windows NT/2000 system administration.

◆ Experience with the system on which NetBackup is to be installed.

◆ Your SCSI devices are properly attached and configured for the operating system.

Caution If a device is not properly configured for the operating system, backups made to that device may be difficult to restore.

Organization

This manual steps through installing and configuring your NetBackup software by using a step-by-step checklist. The checklist appears on the first page of each chapter:

◆ Chapter 1, "Installation and Initial Configuration," contains instructions for installing, upgrading, and configuring the software.

◆ Chapter 2, "Uninstall/Reinstall NetBackup and Clients" contains instructions for uninstalling and reinstalling the NetBackup software.

Conventions

The following explains typographical and other conventions used in this guide.

Type Style

Table 1. Typographic Conventions

Typeface	Usage
Bold fixed width	Input. For example, type **cd** to change directories.
Fixed width	Paths, commands, filenames, or output. For example: The default installation directory is c:\Program Files\Veritas
Italics	Book titles, new terms, or used for emphasis. For example: *Do not* ignore cautions.
Sans serif (italics)	Placeholder text or variables. For example: Replace *filename* with the name of your file.
Sans serif (no italics)	Graphical user interface (GUI) objects, such as fields, menu choices, etc. For example: Enter your password in the Password field.

Notes and Cautions

Note This is a Note and is used to call attention to information that makes it easier to use the product or helps you to avoid problems.

Caution This is a Caution and is used to warn you about situations that can cause data loss.

Key Combinations

Some keyboard command sequences use two or more keys at the same time. For example, you may have to hold down the Ctrl key before you press another key. When this type of command is referenced, the keys are connected by plus signs. For example:

Press Ctrl+t

Command Usage

The following conventions are frequently used in the synopsis of command usage.

brackets [ ]

> The enclosed command line component is optional.

Vertical bar or pipe (|)

> Separates optional arguments from which the user can choose. For example, when a command has the following format:
>
> ```
> command  arg1|arg2
> ```
>
> the user can use either the *arg1* or *arg2* variable.

Getting Help

For updated information about this product, including system requirements, supported platforms, supported peripherals, and a list of current patches available from Technical Support, visit our web site:

```
http://www.veritas.com/
```

VERITAS Customer Support can also be reached through electronic mail at:

```
support@veritas.com
```

Installation and Initial Configuration 1

NetBackup DataCenter and NetBackup BusinesServer include wizards that make it easy to install and configure the software.

Installing and configuring NetBackup involves the following steps as explained in this chapter:

◆ Configuring Storage Devices for Windows NT/2000

◆ NetBackup Server Software

◆ Configuring NetBackup

◆ Performing an Upgrade Installation

◆ Upgrading from NetBackup BusinesServer 3.4.1 to NetBackup DataCenter 3.4.1

◆ Installing Alternative Administration Interfaces (Optional)

◆ Installing NetBackup Agents and Options (Optional)

Configuring Storage Devices for Windows NT/2000

Reliable use of NetBackup depends on the proper configuration of your storage devices. To ensure reliable backups and restores, you must configure devices for Windows NT/2000 according to the instructions provided by the device vendor and by Microsoft. This should be completed *before* you configure NetBackup itself.

Supported Robot Types

See "Robot Type Support By Platform" in the *NetBackup Release Notes* for a list of the supported robot types.

For a list of supported devices by vendor, see the VERITAS support web page: `www.support.veritas.com`.

1. Under the heading, "VERITAS Support Product List," click *NetBackup Products.*

2. Click *NetBackup BusinesServer* or *NetBackup DataCenter.* The product home page appears.

3. Under the heading, "Support Options," click *Compatibility Lists.* The Device Compatibility page appears.

4. Click *Device Support Matrix.*

5. On the next page, click the release level for which you want information. A list of supported devices organized by vendor appears. You can also display all supported drives, libraries, and robot types.

Caution   An improperly configured device may lead to loss of data during a restore.

▼ **To configure your storage device**

❖ Complete all of the configuration steps specified by the storage device vendor and by Microsoft.

After your storage devices are configured, move on to installing the NetBackup software.

NetBackup Server Software

Server Installation Requirements

Installing the server software takes approximately 10 minutes (additional time may be required to set up the product for your environment). Before installing, note the following requirements:

◆ An Intel Pentium system running Microsoft Windows NT version 4.0 with service pack 4 installed, or Windows 2000 with at least 32 MB of memory and service pack 1 installed.

◆ An administrator account and password for the server.

◆ Adequate disk space:

◆ Intel server software requires about 78 megabytes.

◆ On-line documentation, if you choose to install it, requires about 16 megabytes.

◆ NetBackup catalogs contain information about your backups and will increase in size as you use the product. The amount of disk space the catalogs require depends primarily on the number of files backed up, the frequency of your backups, and the amount of time you chose to retain your backup data. VERITAS suggests that you allow about 250 megabytes.

◆ Peripherals installed according to the manufacturers' instructions and recognized by the Windows NT/2000 Server software.

◆ The network set up so the computers recognize and can communicate with one another. Generally, if you can reach the clients from the server by using the ping command, the setup will work with NetBackup.

◆ A NetBackup installation partition that supports long file names. VERITAS suggests an NTFS partition.

Installation Notes

Destination Directory

Ensure that the partition where NetBackup is to be installed has enough room for the NetBackup software and databases.

NetBackup Services and Port Numbers

VERITAS suggests that you use the default port settings for NetBackup services and Internet service ports. If you modify the port numbers, remember that they must be the same for all NetBackup systems that communicate with each other (that is, all master servers, remote media servers, and clients). The port entries are in the following file:

```
%SYSTEMROOT%\system32\drivers\etc\services
```

To change the default settings, clear the appropriate check box on the NetBackup Installation Directory screen and click Next to continue.

Client Software

Installing NetBackup server software also installs client software on the server system. However, installing NetBackup on client systems is done separately as described in the *NetBackup Installation Guide - PC Clients*.

Add-on Products

If you are installing NetBackup add-on products, such as NetBackup for Microsoft SQL Server, refer to the installation instructions that came with the software.

System Names

If you install remote NetBackup administration clients, the master server must have the system names of the administration clients in its server list to allow them access.

Additional Note to DataCenter Users:

This applies to installing remote media servers as well.

For instructions on verifying and changing the server list, see Appendix C of your NetBackup administrator's guide:

◆ *NetBackup BusinesServer System Administrator's Guide - Windows NT/2000*

◆ *NetBackup DataCenter Administrator's Guide - Windows NT/2000*

Additional Note to DataCenter Users:

If you are not adding any NetBackup remote media servers, ignore all references to remote media server throughout the installation process.

Installing the Server Software

▼ **To install NetBackup server software**

1. When installing a NetBackup master or remote media server, or an NT
    Administration Client, you must enter a NetBackup base product license key on the
    server. You will also enter license keys for any additional NetBackup software product
    options or agents used on the server or its clients.

    Check your order to make sure that you have license keys for all the NetBackup
    servers, clients, options, and agents that you requested.

    For more information on administering NetBackup licenses see:

    ◆ *NetBackup BusinesServer Administration Guide - Windows NT/2000*

    ◆ *NetBackup DataCenter Administration Guide - Windows NT/2000*

2. Log in as Administrator on the server where you will be installing NetBackup.

3. Insert the NetBackup CD-ROM in the drive.

    ◆ On systems with AutoPlay enabled for CD-ROM drives, the NetBackup install
      program starts automatically.

    ◆ On Intel Pentium processor Windows NT 4.0/2000 systems that have AutoPlay
      disabled, run `AutoRunI.exe` in the `AutoRun` directory on the CD-ROM.

4. On the NetBackup - Install screen, click on the Install option beneath NetBackup
    Server for Microsoft Windows NT. A welcome dialog box appears.

5. Click Next and follow the prompts in the setup program.

6. As part of the installation wizard, you're asked to enter the name of the NetBackup Device Database Host, which serves as the repository for global device configuration information.

Under most circumstances, this can be left as the default, which is the master server. However, you may need to enter a different host name in the following situations:

◆ If the system shares drives with the Shared Storage Option (SSO), all NetBackup servers must use the same host for storing device information.

◆ If the system has multiple master servers, enter the name of the server that will store the global device configuration information. Conflicting host information may result in a conflict error.

Click Next and continue with the setup program.
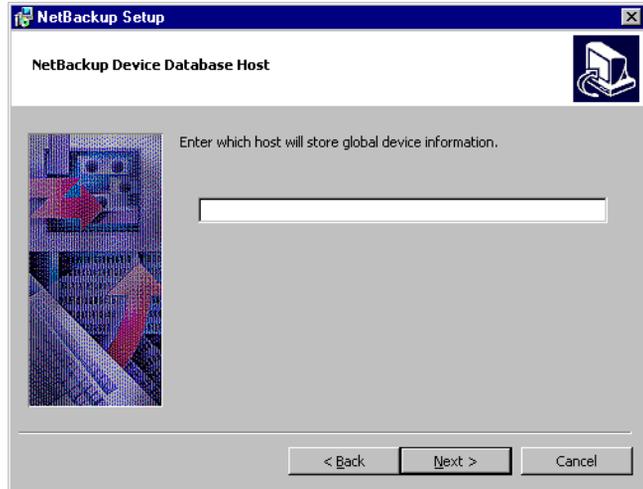
Silent Installation Instructions

Performing a silent installation avoids the need for interactive input. Silent installation is supported only on systems using an Intel Pentium processor.

▼ **To install NetBackup server software silently**

1. Start the Windows Installer program:

   ```
   X86\instmsiw.exe
   ```

   Note Do not run `instmsiw.exe` on Windows 2000 systems.

2. Copy the contents of the `Common` directory to a temporary directory on your hard drive.

3. In the temporary directory, find the script for the item you wish to install. Use a text editor to edit the script so it will install the software as you wish.

   ◆ To install a master server, edit:

      ```
      silentmaster.cmd
      ```

   ◆ To install a media server, edit:

      ```
      silentmedia.cmd
      ```

   ◆ To install the Administration Interface, edit:

      ```
      silentadmin.cmd
      ```

4. If only one master server will be accessing the machine, remove the following line from the script:

   ```
   SET ADDITIONALSERVERS=media1,media2,media3
   ```

5. Save and run the script.

6. Check the log file (`netbackup install.log`) to verify that the install was successful.

   Note You may need to reboot the computer for the changes to take effect.

Performing an Upgrade Installation

Upgrade Installation Requirements

Caution	Before upgrading the NetBackup software on the master server: – Back up your NetBackup databases. – Verify that you have a current backup of the NetBackup catalogs.

◆ Make certain that the NetBackup release level on the server is at least equal to that on the clients. Older versions of server software can encounter problems with newer clients.

Additional Notes to DataCenter Users:

◆ All NetBackup servers must be at release level 3.4 or 3.4.1 to function correctly together. Upgrade all servers in the configuration to this level.

◆ You can upgrade to 3.4.1 only if you currently have NetBackup 3.1.1, 3.1.5, 3.2, 3.3, or 3.4 software installed.

Notes About Upgrading to 3.4.1

◆ The NetBackup installation program detects an existing installation of NetBackup and allows you to upgrade or reinstall it as needed. A reinstall is useful if your installation is corrupted.

◆ If you need to change the type of NetBackup installation, you can do so by selecting the appropriate option on the screen when you start the install.

However, only certain types of changes are allowed (for example, changing a master server into a remote media server is not allowed). If the change is not allowed, uninstall the existing NetBackup software and then perform a new install as needed.

◆ All NetBackup servers must be at the same release level. (Versions 3.4 and 3.4.1 are considered the same in this regard.) VERITAS recommends that you upgrade in the following order:

   a. Server (BusinesServer) or Master Server (DataCenter)

   b. Remote media servers, if any (pertains to DataCenter users only)

   c. Administration clients, if any

   d. NetBackup clients: Upgrade the clients when possible.

◆ After the installation, upgrade any separately-priced options (such as NetBackup for Oracle) on clients that have been upgraded. Separately-priced options should be at the same level as the NetBackup client.

Upgrading from NetBackup BusinesServer 3.4.1 to NetBackup DataCenter 3.4.1

Upgrading from NetBackup BusinesServer to NetBackup DataCenter requires entering the appropriate license key.

▼ **To upgrade BusinesServer to DataCenter**

1. Locate your NetBackup DataCenter license key.

2. Open the NetBackup Administration window. On the Help menu, click License Keys.

3. Type your license key in the New license key field and click Add.

   The new license key appears in the pane in the lower part of the dialog box.

Configuring NetBackup

Before configuring NetBackup, you should physically attach the storage devices to the server and perform all configuration steps specified by the device and operating system vendor (including installation of any required device drivers).

Once the server software and storage devices have been installed, use the Getting Started wizard to configure NetBackup.

The Getting Started wizard is launched automatically following installation. However, you can configure your server at another time by starting the wizard through NetBackup Assistant.
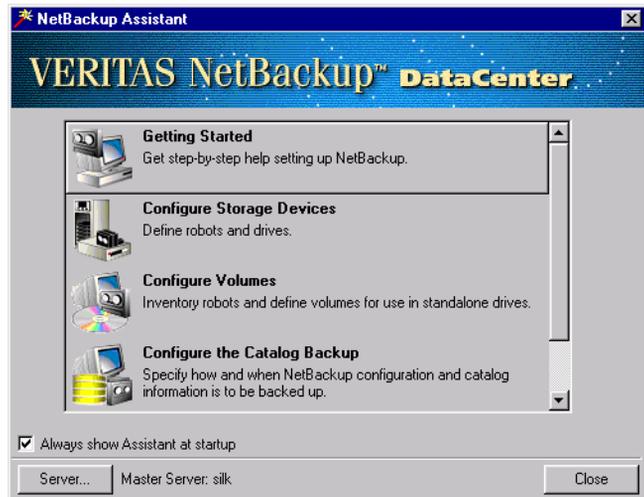
▼ **To access the NetBackup Assistant**

1. To access the NetBackup Assistant, select Assistant from the Start menu in the NetBackup Administration Interface:
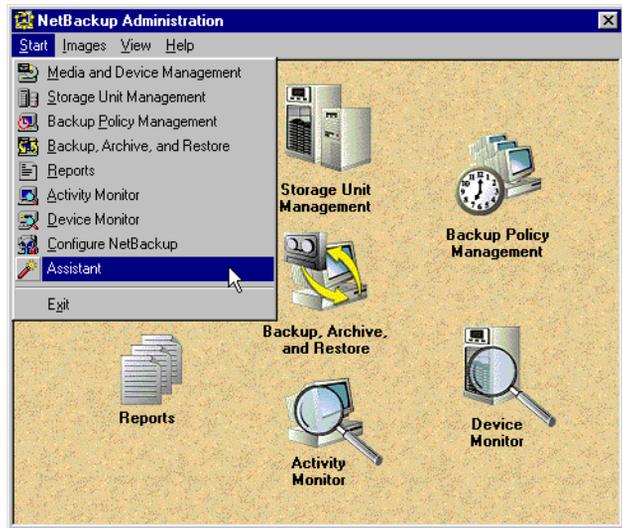
**2.** Click on the Getting Started button in the NetBackup Assistant.

▼ **To configure NetBackup server software**

  1. Configure volumes.

  2. Configure the catalog backup.

  3. Create a backup policy.

The Getting Started wizard leads you through the steps necessary to set up your system by initiating a series of other wizards.

NetBackup BusinesServer users can find more information on the wizards in the *NetBackup BusinesServer Getting Started Guide - Windows NT/2000.*

For information on configuring NetBackup without the wizards, refer to the DataCenter, BusinesServer, or Media Manager System Administrator's Guide for NT.
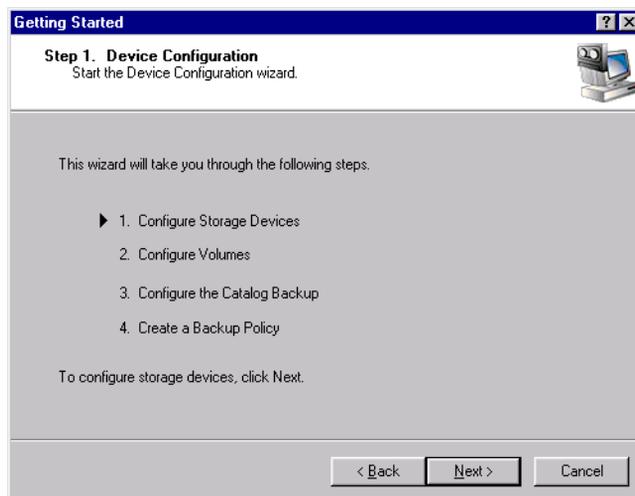
NetBackup Client Software

By definition, your NetBackup server is also a NetBackup client. When you installed the NetBackup server software, both the NetBackup *server* and NetBackup *client* software were installed on the server.

Note to NetBackup BusinesServer Users:

> Your server does not count against the BusinesServer limit of four remote clients (eight with the Client Expansion pack).

Client Installation Requirements

To install NetBackup client software on a PC workstation, you must have one of the following configurations.

Microsoft Windows NT/2000 Clients

◆ Microsoft Windows NT version 4.0 or later, including Windows 2000.

◆ NT 4.0 users should also have NT service pack 4.

◆ An Intel Pentium or DEC Alpha processor.

◆ Any TCP/IP transport that is Windows Socket compliant. (Use the TCP/IP transport that comes with Windows NT/2000 Server.)

◆ A network board supported by your TCP/IP transport.

Microsoft Windows 9x Clients

◆ Microsoft Windows Me.

◆ Microsoft Windows 95 or Microsoft Windows 98.

◆ An Intel Pentium processor.

◆ Any TCP/IP transport that is Windows Sockets Compliant. (Use of the TCP/IP transport that comes with the operating system is recommended.)

◆ A network board supported by your TCP/IP transport.

◆ Windows 95 users must have the Windows Socket 2 Update for Windows 95. This download can be found at:

```
www.microsoft.com/windows95/downloads/contents
```

Remote Installations

To perform remote installations, there are several additional requirements:

◆ The source PC must have Windows NT/2000 installed.

◆ The destination PC must have Windows NT/2000 installed.

◆ The person performing the remote installation must have administrator privileges on all the client PCs.

Installing NetBackup Client Software

The following are quick-start instructions for installing NetBackup client software. For further information on installing and configuring software on PC clients, see the *NetBackup Installation Guide - PC Clients.*

Windows 95/98/2000/NT 4.0

Note Open Transaction Manager (OTM) is a separately-priced option for NetBackup BusinesServer. If the client's server is a NetBackup BusinesServer, you must have license keys for this feature registered on the server to enable this feature.

Local Installation

You can stop the installation process at any time by clicking Cancel or clicking Back to return to the previous window.

▼ **To install NetBackup client software locally**

1. If the system is Windows 95/98, and NetBackup is currently installed, stop the NetBackup Client Service before continuing the installation.

   Windows NT/2000 computers will stop the service automatically.

2. Insert the NetBackup CD-ROM and execute the appropriate setup program.

   ◆ Systems using an Intel Pentium processor:

   ```
   PC_Clnt\Win32\X86\Setup.exe
   ```

   ◆ Systems using an DEC Alpha processor:

   ```
   PC_Clnt\Win32\Alpha\Setup.exe
   ```

3. When prompted to choose where you want to install the NetBackup client software, select Install to this computer only, then click Next.

4. Follow the onscreen instructions. When the installation is complete, the installation status will be displayed.

5. Click the Details button for a detailed status report. Refer to the *NetBackup Installation Guide - PC Clients* for more information on the status report messages.

6. Click Next. The Setup Complete window is displayed.

7. Click Finish.

> **Note** You may need to reboot your PC for the changes to take effect.

Remote Installation

Follow these instructions to install the NetBackup client software on selected NT/2000 clients on your network (one of these clients can be your local PC). You may stop the installation process at any time by clicking Cancel.

Notes on Remote Installations

◆ During installation, the client name is written to the registry in lower case. If the classes on the NetBackup server do not specify the client names in lower case, backups will fail because the names do not match.

◆ You must have administrator privileges on the remote client for the NetBackup install to complete successfully.

▼ **To install NetBackup client software remotely**

> **Note** The NetBackup client setup program cannot clean up an aborted install. Therefore, if you stop Setup while it is copying files to a client, the files that have been successfully installed are not uninstalled.

1. Insert the NetBackup CD-ROM and click Install. The NetBackup Setup screen is displayed.

If Autorun is not available to initiate the installation, use the following:

◆ Systems using an Intel Pentium processor:

    PC_Clnt\Win32\X86\Setup.exe

◆ Systems using an DEC Alpha processor:

    PC_Clnt\Win32\Alpha\Setup.exe

2. Click Next to continue the setup.

3. On the NetBackup Option screen, select Start NetBackup Client Service, then Install NetBackup to remote systems and keep the other default option settings. The Install NetBackup Client to remote systems screen is displayed.

4. Double-click the domains that contain the computers to which you want to install and add them to the Destination System column on the right.

5. If the Enter Network Password dialog box appears, provide the user name, password and domain of an administrator on the remote system.

6. Select the Remember User Name and Password box.

7. Click OK.

8. Click Next.

9. Follow the instructions provided in the Setup program. The installation status displays as the installation proceeds.

10. When the installation is completed, click Finish.

Note You may need to reboot your PC for the changes to take effect.

▼ **To install NetBackup client software silently**

1. If you're running NT 4.0, start the Windows Installer from the following locations:

◆ Systems using an Intel Pentium processor:

    `PC_Clnt\Win32\X86\instmsiw.exe`

◆ Windows 95/98/Me systems using an Intel Pentium processor:

    `PC_Clnt\Win32\X86\instmsia.exe`

Note Do not run `instmsiw.exe` or `instmsia.exe` on Windows 2000 systems.

◆ Systems using a DEC Alpha processor:

    `PC_Clnt\Win32\Alpha\InstMsi-alpha11.exe`

2. Copy the contents of `PC_Clnt\Win32\Common` to a temporary directory on your hard drive.

3. In the temporary directory, use a text editor to edit `silentclient.cmd` so the script will install the client software as you wish.

4. Run the script.

5. Check the log file (`netbackup install.log`) to verify that the install was successful. On Windows 2000 systems, the location may be different.

Note You may need to reboot the computer for the changes to take effect.

NetWare Target and NonTarget

Installing OTM for NetWare

Note Open Transaction Manager (OTM) is a separately-priced option for NetBackup BusinesServer. If the client's server is a NetBackup BusinesServer, you must have license keys for this feature registered on the server to enable this feature.

NetWare 3.x and 4.x:

1. Copy the following file from the `PC_Clnt\NetWare\NLM\OTM\3X4X` directory on the CD-ROM, to the server's DOS partition:

    ```
    Otmdsk.dsk
    ```

2. Modify `STARTUP.NCF` on the server's DOS partition so that `Otmdsk.dsk` is loaded before any other `.dsk` drivers.

3. Reboot the NetWare file server.

NetWare 3.x, 4.x and 5x:

Copy the following files from the `PC_Clnt\NetWare\NLM\OTM\Common` directory on the CD-ROM, to the NetWare file server:

```
Otmcdm.cdm
Otmlapi.nlm
Otmload.nlm
Pmthread.nlm
```

Installing NetBackup

Note `tsands.nlm` must be installed in order to back up and restore NetWare Directory Services (NDS) files.

Any version-dependent NLMs must be also installed. These NLMs are in the form `tsaxxx.nlm` and are supplied by Novell based on the NetWare Server release level. For example, the appropriate NLM for a Netware 5.0 server is `tsa500.nlm`.

1. Copy the following files from the `PC_Clnt\NetWare\NLM` directory on the CD-ROM, to the `SYS:system` directory on your file server:

```
bp.nlm
bpsrv.nlm
bpsms.hlp
bpcd.nlm
```

2. Create the following directories on the `SYS:` volume:

◆ For NetWare Target

```
Openv\netback\logs
Openv\netback\logs\altpath
Openv\netback\logs\bpback
Openv\netback\logs\bprest
Openv\netback\logs\bpcd (optional)
Openv\netback\tgts
```

◆ For NetWare NonTarget

```
Openv\netback\logs
Openv\netback\logs\altpath
Openv\netback\logs\bpsrv (optional)
Openv\netback\logs\bpcd (optional)
```

3. For NonTarget clients, execute `PC_Clnt\NetWare\Win32\Setup.exe` file from the CD-ROM.

4. Modify the host's file to contain the NetBackup server and its IP address.

Note to DataCenter Users:

Modify the host's file to contain the master server and media servers and their IP addresses.

Macintosh

For Macintosh installation instructions, refer to the *NetBackup Installation Guide - PC Clients.*

OS/2 Warp

1. Copy `PC_Clnt\OS2\nbuos2.exe` to a temporary directory on the OS/2 Warp computer.

2. Execute `nbuos2.exe` from the temporary directory to extract the installation files.

3. Execute `install.exe` from the temporary directory to install NetBackup for OS/2.

UNIX

1. Insert the NetBackup CD-ROM into the drive on the client computer.

   HP systems only: Because the NetBackup CD-ROM is Rockridge formatted, it must be mounted by entering the following commands:

   ```
   nohup pfs_mountd &
   nohup pfsd &
   pfs_mount -o xlat=unix /dev/dsk/device-ID /cdrom
   ```

   Where *device_ID* is the ID of your CD-ROM drive.

2. Change your working directory to the CD-ROM directory:

   ```
   cd cd_rom_directory
   ```

   Where *cd_rom_directory* is the path to the directory where you can access the CD-ROM. On some platforms, it may be necessary to mount the directory.

3. Start the install program.

   ```
   ./install
   ```

4. Choose option 2, NetBackup Client Software.

> **Note** The choices provided for OS level represent the OS Level on which the binaries were compiled. Often the binaries will function perfectly on newer versions of the operating system. For example, Solaris 2.6 binaries also are used on Solaris 7 and Solaris 8 levels of the operating system. So, if you wish to install on a Solaris 8 system, choose the Solaris 2.6 binaries.

   5. Follow the prompts to complete the installation.

   6. On HP systems only—to unmount the CD-ROM:

   ◆ Execute the `pfs_umount` command

   ◆ Use the `kill` command to kill the following processes:

```
pfs_mountd
pfsd
pfs_mountd.rpc
pfsd.rpc
```

Installing Alternative Administration Interfaces

NetBackup Administration Client

You can skip this section if you do not want to remotely administer a NetBackup server from a Windows NT/2000 NetBackup client.

The NetBackup Administration Client for Windows NT/2000 is a version of NetBackup for Windows NT/2000 that can be used to remotely administer one or more UNIX or Windows NT/2000 NetBackup servers. It provides all of the standard NetBackup Server for Windows NT/2000 interfaces and can be used to create backup policies (classes), manage volumes, view status, monitor tape drives, etc., on a remote NetBackup server. It cannot be used as a NetBackup master or media server itself—only for the remote administration of other 3.4.1 NetBackup UNIX or NT servers.

> **Note** A NetBackup base product license key is also required when installing a NetBackup Administration Client.

Although the Administration Client cannot be used as a master or media server, in order for it to remotely administer a NetBackup server, it must be added to the server list on that server in the same way that other NetBackup servers are added to the server list to give them access to that server.

This documentation set does not, in most cases, specifically refer to the NetBackup Administration Client since, for all practical purposes, using the NetBackup Server for Windows NT interfaces on the Administration Client is identical to using them locally on the server that is being administered. Of course, the master server or device host shown in the interface will be the server name that is being administered instead of the local server name.

▼ **To install an Administration Client**

1. To add the Administration Client host to the server list of the remote DataCenter or NetBackup BusinesServer computer, do the following:

   a. Go to the remote DataCenter or BusinesServer computer.

   b. On the NetBackup Administration window, select Configure NetBackup from the Start menu.

   c. In the Configure - NetBackup window, right click on the name of the computer in the Configuration Group pane and select Properties (Read/Write).

   d. In the Master Server Properties window, click the Servers tab.

    e. In the Global Operations box, in the field labeled Add to all lists, type the name of the host that is to run the NetBackup Administration Client. Then click the `+` button.

    The name of the host appears in the Additional Servers list.

    f. Click OK.

2. Go to the computer on which you want to install the Administration Client and insert the CD-ROM that contains the NetBackup server software.

On Windows NT 4.0 ⁄ 2000 systems with AutoPlay enabled for CD-ROM drives, the NetBackup install program starts automatically.

3. On the NetBackup - Install screen, click the Install option beneath NetBackup Server.

4. Enter the NetBackup base product license key. For more information on administering NetBackup licenses see:

◆ *NetBackup DataCenter System Administrator's Guide - Windows NT/2000 Server*

◆ *NetBackup BusinesServer System Administrator's Guide - Windows NT/2000*

5. Click Administration Client.

6. Follow the prompts to complete the installation.

Note On the NetBackup System Names screen, the name of the Administration Client should be in the first entry field. You must enter the name of the remote NetBackup DataCenter or BusinesServer computer in the Master Server field.

When the software is installed, a set of NetBackup documents are also installed in the following directory:

    install_path\Help

By default, *install_path* is C:\Program Files\VERITAS.

By default, the Administration Client interface will automatically begin as soon as you click Finish in the installation program. (If you did not choose that default, go to the Windows Start menu on the Administration Client computer and select Programs, VERITAS NetBackup, NetBackup Administration.)

NetBackup-Java Display Console for Windows

> **Note** You can install the NetBackup-Java Display Console from the NetBackup 3.4
> CD-ROM.

The NetBackup-Java Display Console allows you to run the NetBackup Java (UNIX)
interfaces on a Windows NT, 2000, 98, or 95 system to remotely administer your UNIX
NetBackup DataCenter server or BusinesServer machine.

You can skip this section if you do not want to remotely administer your UNIX
NetBackup servers using the Java interface on Windows NT, 2000, 98, or 95.

Requirements

For the computer on which you want to run the NetBackup-Java Display Console,
VERITAS recommends 256 MB of physical memory.

▼ **To install the NetBackup-Java display console**

1. On the system where you are performing the install, insert the CD-ROM that contains
   the NetBackup server software.

   On Windows NT 4.0/2000 systems with AutoPlay enabled for CD-ROM drives, the
   NetBackup install program starts automatically.

2. On the NetBackup Install screen, click on the Install option beneath NetBackup - Java
   Display Console for MS. A welcome dialog box appears.

3. Click Next and follow the prompts to complete the installation.

4. When the software is installed, see the following document for information on using
   the display console (this document is installed with the software):

   install_path\Java\Readme.txt

   Where, by default, *install_path* is C:\Program Files\VERITAS.

Installing NetBackup Agents and Options

After your initial installation is complete, you can install any other NetBackup agents and
options (such as NetBackup for Oracle) by following the instructions in the NetBackup
guide that comes with that product.

Uninstall/Reinstall NetBackup and Clients 2

This chapter gives instructions for uninstalling and reinstalling NetBackup software.

Uninstalling NetBackup Server Software

Caution   This procedure removes the NetBackup catalogs. If you intend to do a reinstall, be certain to back up the catalogs before proceeding (see "Uninstalling and Reinstalling NetBackup Server Software" on page 24).

▼ **To uninstall NetBackup server software**

　　1. From the Start menu, click Settings, then Control Panel.

　　2. From the Control Panel, double click the Add/Remove Programs icon.

　　3. Remove VERITAS NetBackup from the Install ⁄ Uninstall property sheet.

Uninstalling and Reinstalling NetBackup Server Software

Caution	This procedure removes the NetBackup catalogs. Be certain to back up the catalogs before uninstalling or they will be lost.

▼ **To uninstall and reinstall NetBackup server software**

1. Perform a catalog backup.

2. From the Start menu, click Settings, then Control Panel.

3. From the Control Panel, double click the Add/Remove Programs icon.

4. Remove VERITAS NetBackup from the Install/Uninstall property sheet.

5. Recover the NetBackup catalogs from your most recent catalog backup.

   Refer to the Disaster Recovery chapter of the *NetBackup Troubleshooting Guide - Windows NT/2000* for more detailed reinstall instructions on recovering the catalogs.

Uninstalling NetBackup Client Software

If you are uninstalling NetBackup from a machine on which you have installed the NetBackup-Java Display Console, the Console will be also be removed when uninstalling NetBackup. You will need to reinstall the Console in order to continue using it on the machine.

For instructions on uninstalling NetBackup client software for the following platforms, refer to the *NetBackup Installation Guide - PC Clients*.

◆ Windows 95/98, NT/2000

◆ Macintosh

◆ Novell NetWare

◆ OS/2

▼ **To uninstall UNIX NetBackup client software**

1. Log in as the root user on your client.

2. Remove the /usr/openv directory.

   If /usr/openv is a physical directory, execute:

   ```
   rm -rf /usr/openv
   ```

   If /usr/openv is a link, execute:

   ```
   cd /usr/openv
   rm -rf *
   cd /
   rm -f /usr/openv
   ```

3. Remove NetBackup entries in the /etc/services file, as follows:

   ◆ Edit the client's /etc/services file.

   ◆ Locate the lines marked by the following and remove them:

   ```
   # NetBackup services#
   .....
   # End NetBackup services #


   # Media Manager services #
   ....
   # End Media Manager services #
   ```

4. Restore the original inetd configuration.

   a. Restore inetd data:

   Edit /etc/inetd.conf and delete the lines for bpcd, vopied, and bpjava-msvc.

   ◆ For NCR, this file is called inetd.local.

   ◆ For Red Hat Linux 7.0 (running xinetd), remove these files instead:

   ```
   /etc/xinetd.d/bpcd
   /etc/xinetd.d/bpjava-msvc
   /etc/xinetd.d/vopied
   ```

   b. Find out the inetd process ID:

   ◆ For most UNIX clients:

   ```
   ps -ea | grep inetd
   ```

◆ For Red Hat Linux 6.2:

```
ps -ef | grep inetd
```

◆ For Red Hat Linux 7.0:

```
ps -ef | grep xinetd
```

◆ For Mac OS X Server, Free BSD, and Auspex:

```
ps -ax | grep inetd
```

c. Send the appropriate signal to the inetd daemon:

◆ For clients running inetd:

```
kill -1 Process ID
```

◆ For clients running xinetd:

```
kill -10 Process ID
```

5. For Solaris, HP, and Linux NetBackup clients running NetBackup-Java graphical interfaces, remove the NetBackup-Java state data by executing the following:

```
/bin/rm -rf /.nbjava
```

6. Inform users of this machine that they can remove their $HOME/.nbjava directory.

The $HOME/.nbjava directory contains application state information (for example, table column order and size) that is saved when the user exits NetBackup-Java applications.

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