

StoreVault® Manager

Quick Start Guide

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Preface

About this guide

This guide describes the following tasks and topics:

- ◆ Installation of StoreVault® Manager software
- ◆ Configuration of the StoreVault storage system using StoreVault Manager
- ◆ Creating Windows Shares, UNIX Exports, and LUNs using StoreVault Manager Quick Guide

This guide does not cover installation and replacement of hardware components. For installation and replacement of hardware components, see the relevant model Hardware Guide. For the StoreVault S550 storage system, see the NetApp Hardware *S550 Hardware Guide*, for the StoreVault S500 storage system, See the NetApp Hardware *S500 Hardware Guide*, and for the StoreVault S300 storage system, see the NetApp Hardware *S300 Hardware Guide*.

The preface contains the following sections:

- ◆ [“Audience”](#) on page iii
- ◆ [“Typographic conventions”](#) on page iv
- ◆ [“Notices in this guide”](#) on page v
- ◆ [“Other documents”](#) on page v

Audience

This guide is for system administrators of the StoreVault storage system. The system administrator needs access to the StoreVault storage system and privileges on the network.

Typographic conventions

The following table describes the typographic conventions used in this guide.

Formatting convention	Type of information
<i>Italic type</i>	◆ Words or characters that require special attention. ◆ Placeholders for information you must supply. For example, if the guide requires you to enter the <code>fcstest</code> <i>adaptername</i> command, you enter the characters “fcstest” followed by the actual name of the adapter. ◆ Book titles in cross-references.
Monospaced font	◆ Command and daemon names. ◆ Information displayed on the system console or other computer monitors. ◆ The contents of files.
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.

Keyboard conventions

The following table lists the character formats used in this guide to set off special information.

What is in this guide...	What it means...
hyphen (-)	Used to separate individual keys. For example, Ctrl-D means holding down the Ctrl key while pressing the D key.
<i>Enter</i>	Used to refer to the key that generates a carriage return; the key is named Return on some keyboards.
<i>type</i>	Used to mean pressing one or more keys on the keyboard.
<i>enter</i>	Used to mean pressing one or more keys and then pressing the Enter key.

Notices in this guide

This document might contain the following types of messages to alert you to conditions you need to be aware of. Danger notices and caution notices only appear in hardware documentation, where applicable.

appear in hardware documentation, where applicable.

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.

Danger

A danger notice warns you of conditions or procedures that can result in death or severe personal injury.

Caution

A caution notice warns you of conditions or procedures that can cause personal injury that is neither lethal nor extremely hazardous.

Other documents

The following are other documents related to StoreVault storage.

- ◆ *StoreVault Manager 3.2 User's Guide*
- ◆ *StoreVault Hardware Guides*

About this chapter

This chapter provides an overview about the StoreVault Manager software and explains the installation procedure.

Topics in this chapter

This chapter discusses the following topics:

- ◆ [“Overview of StoreVault Manager software”](#) on page 2
- ◆ [“Basic guidelines for protecting your data”](#) on page 3
- ◆ [“StoreVault Manager Installation”](#) on page 7

Overview of StoreVault Manager software

The StoreVault Manager management software enables you to manage the StoreVault storage systems. It is GUI-based software with a familiar Windows look-and-feel. StoreVault Manager helps you to share and manage directories, create and manage LUNs, set quota rules for users and groups, manage disk drives, access cross-platform data, run tape backup, take Snapshot™ copies, replicate data on to another StoreVault storage system or to FAS series storage systems, and perform storage administration tasks.

This document provides a quick overview of the software installation and the basic steps required to store and share data on your new system.

Basic guidelines for protecting your data

Before setting up the StoreVault storage system, follow these guidelines to protect your data.

- ◆ “[E-mail alerts and Automatic Support E-mails \(ASUP\)](#)” on page 4
- ◆ “[Handling disk drives](#)” on page 5
- ◆ “[Data protection](#)” on page 6

E-mail alerts and Automatic Support E-mails (ASUP)

Configure administrative alerts

The administrative alerts inform you about the conditions that require action. For example, a disk fails and needs to be replaced, or the system overheats. You can configure the admin alerts either during or after setup by providing a mail gateway and an e-mail address.

Automatic Support E-mails (ASUPs)

This feature enables diagnostic e-mails, by default. The ASUP provides NetApp Global Services (NGS) with an accurate picture of the system's health, which can help to quickly resolve issues with your system. No user data of any kind is sent in these e-mails.

Send an ASUP upon completion of setup

This feature provides with a baseline of the system configuration. The StoreVault Support can use this feature to quickly diagnose the configuration issues during a support call.

Handling disk drives

Never remove a disk drive during administrative operations

Avoid removing disk drives when the system is performing an administrative operation, such as a RAID rebuild. A yellow icon on the disk drive in the Drive Status area of StoreVault Manager indicates such conditions.

Administer disk drive removal through StoreVault Manager

Always use StoreVault Manager to logically remove a spare drive before physically removing the drive. This will identify the drive to be removed from its LED on the storage system and ensure that it is safe to remove the disk drive.

Handle drives with care

Handle the drive by the carrier only. Do not touch the electrical components at the bottom of the drive.

Data protection

Back up data

Use standard third party backup software to create data back ups of data on a local SCSI-attached tape device or to another backup storage system on the network. StoreVault Manager also contains its own simple backup utility to create tape backups. For more information, see the StoreVault Manager User's Guide.

Keep a copy of your data offsite

To prepare for an unlikely event where the primary StoreVault system is destroyed, you should keep a copy of your data in another location to recover the lost data. You can physically transport backup tapes to a safe offsite location. Alternately, data can be automatically copied to a StoreVault system at a remote location using the SnapMirror license option.

Use RAID® DP and a Hot Spare

To provide maximum protection against drive failures, you should use RAID DP (dual parity) and a global hot spare. This process enables the system to automatically initiate a rebuild of the failing drive on a spare drive before the failure occurs. It is important to use the RAID DP and hot spare when the SATA drive size increases.

StoreVault Manager Installation

About this section This chapter provides a brief overview of the of the StoreVault Manager software, installation, and configuration procedure.

Topics in this section Following are topics in the section

- ◆ [“Installation prerequisites”](#) on page 8
- ◆ [“Upgrading Data ONTAP”](#) on page 9
- ◆ [“Installing the StoreVault Manager software”](#) on page 11
- ◆ [“Configuring the StoreVault system”](#) on page 14
- ◆ [“Login procedure”](#) on page 28

Installation prerequisites

The Windows workstation or server must meet the hardware, software, and license key requirements before you install StoreVault Manager software.

Hardware requirements:

- ◆ Intel-based PC with single 2 GHz CPU (Xeon® or Pentium® 4)
- ◆ 40 MB of free disk space minimum
- ◆ 512 MB of memory minimum

Software requirements: One of the following Windows operating systems and other software mentioned in the list:

- ◆ Windows XP Professional
- ◆ Windows Server 2003
- ◆ JRE1.4

Note

Ensure that the DNS entry for the StoreVault storage system has been created prior to running the StoreVault Manager.

Upgrading Data ONTAP

Procedure

If your storage system is running an earlier Data ONTAP version, then you must upgrade to Data ONTAP S Family Edition 7.2.1S9 before upgrading to StoreVault Manager 3.2. Use your existing version of StoreVault Manager to upgrade. You can download the latest Data ONTAP version from <http://now.netapp.com> for your model of storage system. After downloading, follow the succeeding procedure to upgrade.

To upgrade Data ONTAP version, complete the following steps.

Step	Action
1	Log in to StoreVault Manager.
2	Click System menu and select Software.
3	In the StoreVault Software Licenses dialog box, select <i>StoreVault System Upgrade</i> tab.
4	Click Browse and go to the location where you downloaded Data ONTAP.
5	Click OK .
6	The system reboot message appears, read the message, and click Yes to upgrade.

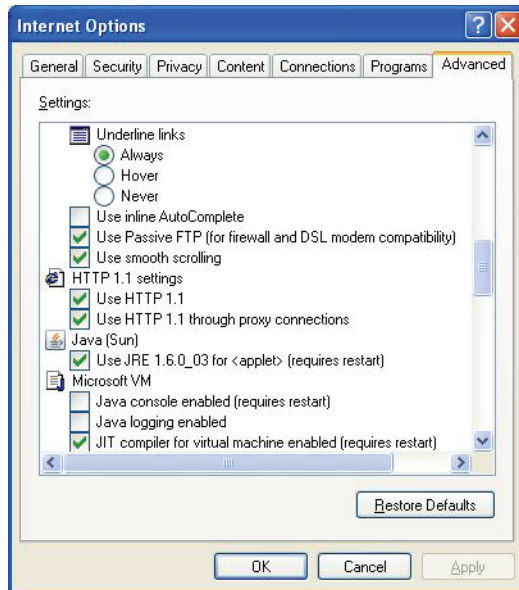
Configuring CIFS in an Active Directory environment:

This is required only when you want to use the CIFS protocol in the Active Directory environment. Before you run setup to register the StoreVault storage system with the domain, complete the following steps:

1. Create a new DNS host (A) record for the storage system with the intended static IP address.
2. Use the intended host name for the StoreVault storage system to create a new computer account in Active Directory for the storage subsystem.

Note

You must install Java and Microsoft Virtual Machine for certain pages in StoreVault Manager to work. To verify if the virtual machine is installed on your system, ensure that the settings as shown in the following screenshot are selected in the Advanced tab of Internet Options.



Installing the StoreVault Manager software

You can install StoreVault Manager software from the following sources:

- ◆ StoreVault Manager software CD-ROM.
- ◆ Latest version of the StoreVault Manager software downloaded from <http://now.netapp.com>.

Note

The StoreVault storage system requires a static IP address. The static IP address and host name must be updated in the DNS tables.

Note

Before installing StoreVault Manager 3.2, upgrade the S family storage system to Data ONTAP® S family Edition 7.2.1S9. Use the downloaded Data ONTAP version to upgrade. See the <http://now.netapp.com> to ensure that you are installing the latest version.

Things to check before installation

Ensure that the following points are completed:

- ◆ The Windows server or workstation meets the requirements described in the “[Installation prerequisites](#)” on page 8 section of this chapter.
- ◆ You have a login with domain administrator or local administration rights for the Windows management workstation.
- ◆ Optionally, a DHCP server is available for the StoreVault storage system before you begin the setup process.
- ◆ The StoreVault hardware is set up according to your model of *StoreVault Hardware Guide*.
- ◆ The StoreVault storage system is powered on.

Installing the software

To install StoreVault Manager software on the Windows XP Professional or Windows 2003 workstation, complete the following steps.

Step	Action
1	Insert the StoreVault Software CD-ROM into the CD-ROM drive of the management workstation, or use the downloaded StoreVault Manager software for installation. The StoreVault Software Installer screen appears. Note _____ It is recommended that an active DHCP server be available to the unit before you begin the StoreVault setup. If there is no DHCP server, the StoreVault storage system defaults to the IP address of 10.10.10.10 at the e0a interface. In this case, you need to reconfigure the Windows workstation to the 10.10.10 subnet to discover the StoreVault storage system. This can be done using the crossover cable directly between the StoreVault storage system and Windows workstation.
2	In the StoreVault Software Installer screen, click Install StoreVault Manager. Result: The preparing to install screen appears, followed by the InstallShield screen.
3	In the InstallShield Wizard dialog box, click Next. Result: The License Agreement screen appears.
4	In the License Agreement screen, read the license agreement, select the I accept... option, and then click Next. Result: The Customer Information dialog box appears.

Step	Action
5	In the Customer Information dialog box, complete the following steps: - Enter the user name and organization. - Select the option to install the application for all users or for an individual user who use this system. - Click Next. Result: The Destination Folder dialog box appears.
6	In the Destination Folder dialog box, complete either of the following actions. ❖ To change the folder for installing StoreVault Manager, click Change, and then follow the instructions in that dialog box. ❖ To install StoreVault Manager in the default folder, click Next. Result: The Ready to Install the Program dialog box appears.
7	In the Ready to Install the Program screen, click Install. Result: The InstallShield Wizard Completed dialog box appears.
8	In the InstallShield Wizard Completed screen, Click Finish.

Configuring the StoreVault system

To configure your StoreVault storage system, complete the following steps.

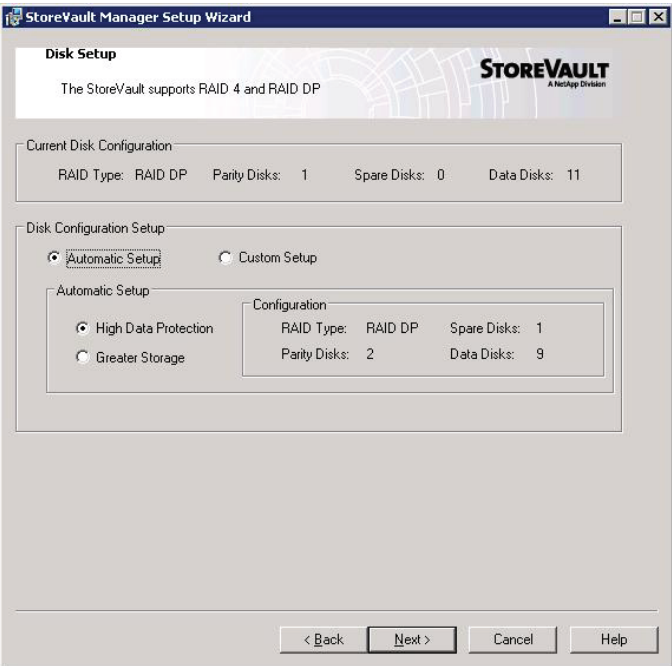
Step	Action
1	Double-click the StoreVault Manager icon on your desktop. OR Select Start > All Programs > Network Appliance > StoreVault > StoreVault Manager. Result: The StoreVault Manager Sign On dialog box appears.
2	Click Discover to discover the StoreVault storage system on the network. Note Make sure that the StoreVault static IP address and host name are updated in the DNS tables. Result: The StoreVault Discovery dialog box appears.

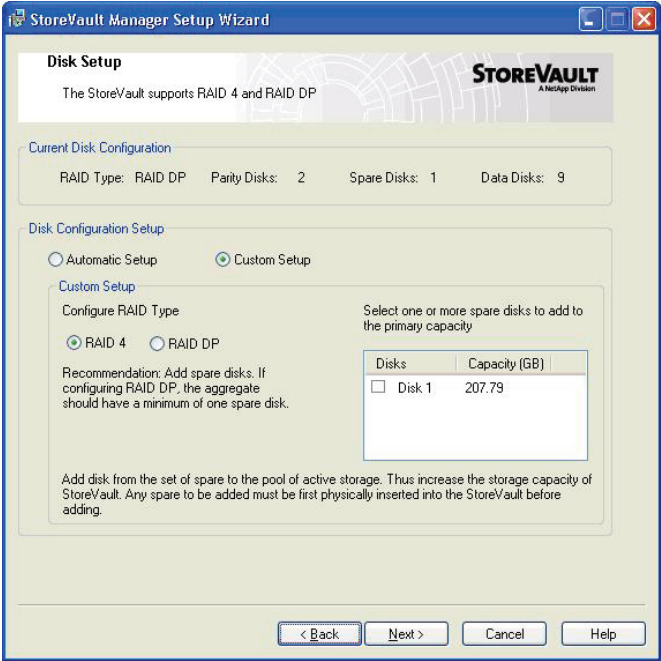
Step	Action
3	In the StoreVault Discovery dialog box, complete the following steps: a. Enter a specific IP address to discover a StoreVault system that is not listed. b. Enter the subnet mask depending on the configuration of your network. c. Click Start Discovery. d. After the StoreVault system appears on screen, select it and click Configure. Result: The StoreVault Software Licenses dialog box appears and displays keys for licenses that you have already purchased. Note_____ If you still cannot find the StoreVault system you installed, the system might not have received a DHCP address. In this case, it will have defaulted to 10.10.10.10. You need to change your client address and rediscover the StoreVault storage system on that subnet.
4	In the StoreVault Software Licenses dialog box, complete the following steps: a. Type the license key in the text box. b. Click Add. Note_____ To add more license keys repeat preceding step a and b. c. After adding license keys, click Next. Result: The Administrative Settings dialog box appears.

Step	Action
5	In the Administrative Settings dialog box, complete the following steps. a. Enter the StoreVault name and password. The StoreVault storage system has a default host name of StoreVault -XXXX, where XXXX is the last four digits of the system serial number. You can change the StoreVault host name. b. Enter the SMTP server name or IP address. The SMTP server processes the e-mail alerts sent by the StoreVault storage system. Identifiable by your e-mail server, to deliver administrative alerts to several recipients. c. Enter the administrator's e-mail address. The SMTP server name and administrator's e-mail address are used for the StoreVault AutoSupport function. The StoreVault storage system sends an automated e-mail to this address when the system notices a problem. An e-mail is also sent to the technical support team. In addition, a message is sent once a week that the system is working without errors. To deliver administrative alerts to several recipients, you can enter a group distribution list e-mail address, if identifiable by your e-mail server.

Step	Action
6	In the Set Date/Time section, select the Use NTP server for date and time synchronization check box. Note _____ The time difference between the StoreVault storage system and NTP server can be between 0 to 30 minutes for synchronization. a. Enter the NTP server name or IP address in the NTP server field. Note _____ StoreVault Manager enables you to provide up to five NTP server names for redundant synchronization. Use a comma to separate multiple server names. b. From the drop-down list, select daily, hourly, or multihourly. daily—StoreVault synchronizes date and time on daily basis. hourly—StoreVault synchronizes date and time on hourly basis. multihourly—StoreVault synchronizes date and time after every six hours. However, to specify the date and time manually, clear the Use NTP server for date and time synchronization check box. This disables the NTP server fields. Enter the date and time. c. Select the time zone. d. Select the language. e. Click Next. Result: The Administrative Alert Settings dialog box appears.

Step	Action
7	In the Administrative Alert settings dialog box, complete the following steps. a. In the Alert Groups section, select All Alerts or select individual alerts. Note_____ For Aggregate Alerts, you must set Storage Full Threshold Alert (%) b. Click Next. Result: The Disk Setup dialog box appears.

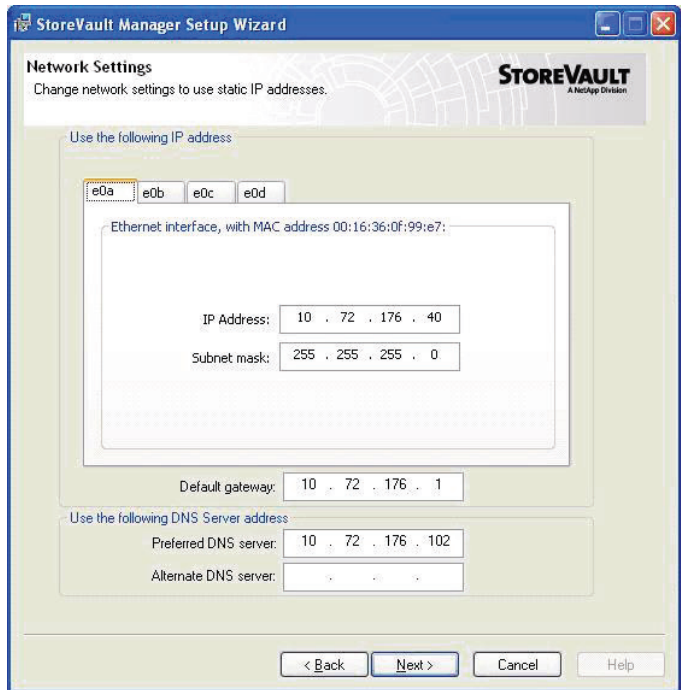
Step	Action
8	The Disk Setup dialog box displays current disk configuration of the StoreVault storage system.  The Disk Setup has two disk configuration options. ◆ Automatic Setup ◆ Custom Setup Automatic Setup: The automatic setup gives an option to select High Data Protection or Greater Storage. ◆ The High Data Protection automatically configures RAID-DP with two parity disks, one spare, and the rest as data disks. ◆ The Greater Storage automatically configures RAID4 with one parity, one spare, and the rest as data disks.

Step	Action
	If Custom Setup is selected, the following screen appears.  Custom Setup: In Custom Setup you can select the RAID type, and the dialog box displays available spare disks list in the pane. - Select RAID4 or RAID DP. - Select Disks from the available spare disks list.

Step	Action
	Note _____ If you are selecting last available spare disk then, the following message appears. Click Yes to continue, or click No to keep the last drive as a spare drive. c. In the Disk Setup dialog box, click Next. The following message appears displaying the new disk configuration. d. Click Yes to continue. Result: The Network Settings dialog box appears.

Step	Action	
9	In the Network Setting dialog box you can configure the network setting.	
	Note _____ The StoreVault S500 and StoreVault S550 storage systems have two NIC ports e0a and e0b, and StoreVault S300 storage system has four NIC ports e0a, e0b, e0c, and e0d. StoreVault Manager Network Setting dialog box represents these NIC ports in the form of tabs respectively.	
	Note _____ Ensure that the static IP address and host name are updated in the DNS tables.	
	If the network interfaces... Are not grouped Were grouped earlier, and you are running setup for the second time.	Then. Go to Step 10 . Go to Step 11 .

Step	Action
10	In the Network Settings dialog box, complete the following steps. - Select the network interface tab. - Enter a static IP address and subnet mask for each of the Ethernet interfaces. - Click Next.

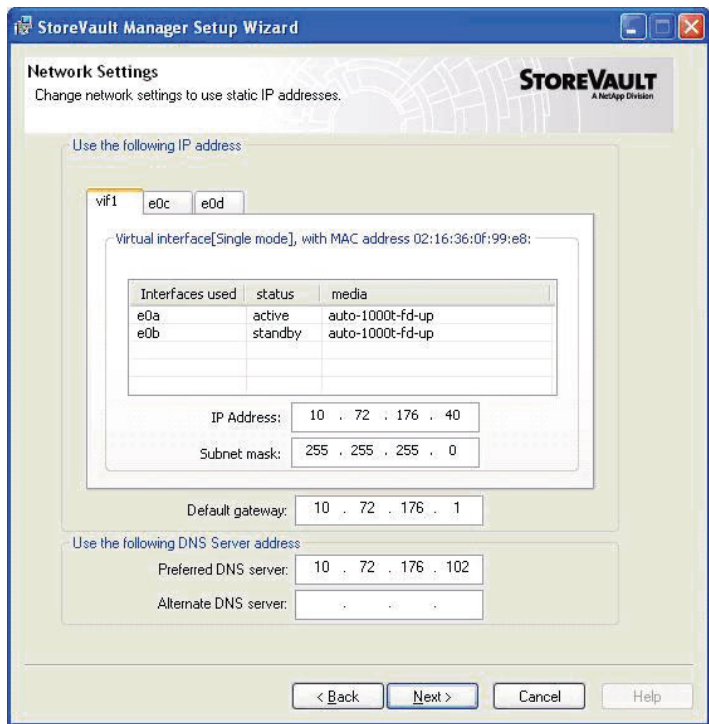


Note

You can group the network interfaces into a virtual interface after completing setup.

Result: The Windows Authentication Mode dialog box appears.

Step	Action
11	If your network interfaces were grouped earlier and you are running setup for the second time, complete the following steps: - Change the IP address. - Change the subnet mask of the grouped interface. - Click Next.



Result: The Windows Authentication Mode dialog box appears.

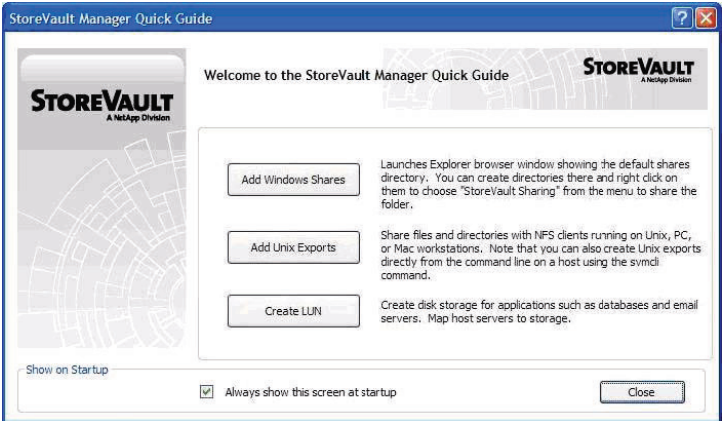
Step	Action
12	There are three types of Windows authentication modes. ◆ Active Directory Domain (Windows Security): The installer must have the domain administrator name (or account with domain administrative rights) and password. Note _____ DNS IP configuration is mandatory for ADS integration. The system time at the StoreVault storage system and domain controller should be same. Otherwise, the ADS integration will fail. ◆ Windows NT Domain: The NT domain in which the installer must create the StoreVault account on the domain controller before continuing. ◆ Windows Workgroup: This option requires local user accounts on the StoreVault storage system. In the Windows Authentication Mode dialog box, complete the following steps. - Enter the StoreVault name for Windows. - Select the Windows authentication mode that is in use in your site. - Click Next. Result: The UNIX NIS Settings dialog box appears. If you do not have a UNIX or Linux license key, this dialog box is not displayed.

Step	Action
13	In the UNIX NIS Settings dialog box, complete the following steps. - Enter the Network Information System (NIS) domain. - Enter NIS Server IP addresses. - Enter the Name or IP address of the administration host. - Click Next. NIS allows many UNIX or Linux machines on a network to share the configuration information, including password data. NIS is valid only in a UNIX or Linux environment. Result: The Summary dialog box appears.
14	In the Summary dialog box, complete the following steps. - Verify the configuration information for the StoreVault configuration. - If something needs to be changed, click Back to return to the dialog box to edit the information. - If the information is correct, click Finish. Result: After you confirm the configuration settings on the Summary dialog box, the Setup Status dialog box appears.
15	In the Setup Status dialog box, click Done. Result: The Registration Information (required) dialog box appears.

Step	Action
16	In the Registration Information (required) dialog box, complete the following steps. a. Enter your name and company details. This option is very important for technical support of the StoreVault storage system. This enables the StoreVault system to send status and troubleshooting e-mails to the support team. The e-mail address that you enter is not used for marketing or other purposes. This information is not shared with anybody. b. Select the Optional Information check boxes, if applicable c. Click Next. Result: The StoreVault Setup successfully Completed dialog box appears.
17	In the StoreVault Setup successfully completed dialog box, complete the following steps. a. To view available special offers, select the 'View Special Offers on Exit' check box. b. To close the window, click Exit.

Login procedure

To start StoreVault Manager, complete the following steps.

Step	Action
1	Double-Click the StoreVault Manager icon on the Desktop. OR You can also open StoreVault by selecting Start > All Programs > Network Appliance > StoreVault >StoreVault Manager. Result: The StoreVault Manager's Sign on dialog box is displayed.
2	In the StoreVault Manager's Sign On dialog box, complete the following steps. - Select Normal Mode. - Type the password. - Type or select the StoreVault Name or IP address. - Select Remember me on this computer. - Click Sign In. When StoreVault Manager is launched for first time, the following Quick Guide dialog box appears.  To disable this feature, clear the <i>Always show this screen at startup</i> check box.

About this chapter This chapter guides you about creating Windows Shares, UNIX Exports, and LUNs using StoreVault Manager Quick Guide.

Topics in this chapter This chapter discusses the following topics:

- ◆ “[Adding Windows Shares](#)” on page 30
- ◆ “[Adding UNIX Exports](#)” on page 33
- ◆ “[Creating LUNs](#)” on page 35

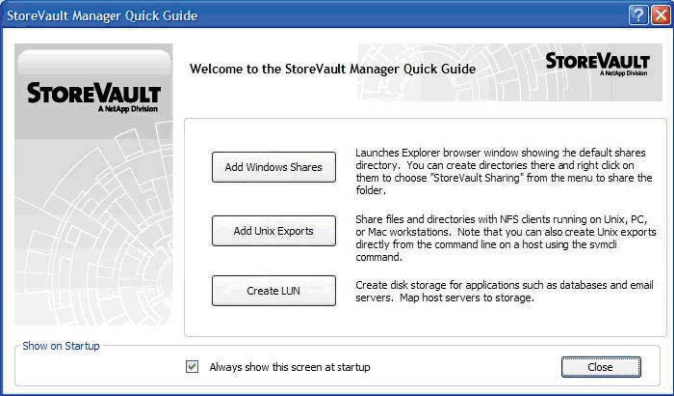
Adding Windows shares

As an administrator, you can create directories on the storage system. These directories do not automatically become accessible to users. You must create shares that correspond to these directories so that users can share them.

A Windows share is location on a computer network, which allows multiple users on the same network to have a centralized space to store files.

The following steps describe how to create an area for users to store their data on the StoreVault storage system. The Common Internet File System (CIFS) protocol is used for sharing these files and folders over the network. All security for access is handled through Windows.

To create a share for users, complete the following steps.

Step	Action
1	After logging into StoreVault Manager for first time, the following Quick Guide dialog box appears.  In the Quick Guide dialog box, click Add Windows Shares. Result: An Explorer window opens displaying the default shares folder.
2	In the default shares directory, right-click and select New > Folder.

Step	Action
3	Right-click the new folder and select StoreVault > Share. Result: The Explorer Folder Properties dialog box appears with the StoreVault Sharing tab selected.
4	In the folder Properties dialog box, complete the following steps. a. Click Share this folder. b. Type a Share Name. c. Type a Comment (optional). d. Click OK. Result: An information dialog box appears indicating that the share was created successfully.
5	In the information dialog box, click OK. Result: The Windows Shares dialog box appears with new share created.

Mapping the default share

To access the default share of the StoreVault storage system, complete the following steps.

Step	Action
1	In your Windows administrative system, click Start > My Computer . From this window, click Tools menu > Map Network Drive .
2	In the My Computer Windows, click Tools > Map Network Drive . Result: The Map Network Drive dialog box appears.
3	In the Map Network Drive dialog box, select drive letter and browse for a folder. Use the StoreVault storage system name or IP address followed by <i>\shares</i>. Note If required, click connect using a different user name, The user name needs to have Windows authorization to access the default share on the StoreVault storage system. For example, <i>Admin@domainname.com</i> Here the domain name is the domain where the StoreVault storage system resides.
4	Click Finish. Result: The default share is mapped as a network drive.
5	In the mapped shares directory, right-click and select New > Folder . Name the folder.
6	Right-click the new folder and select StoreVault > Share. Now, the folder is shared and can be accessed by Windows clients.

Adding UNIX exports

This part of StoreVault Manager enables you to prepare your StoreVault storage system for sharing storage resources (files, directories, and containers) with Network File System (NFS). NFS is the file system for UNIX clients.

You can add an export using browse or wizard option from UNIX Exports Properties dialog box.

Step	Action
1	In the Quick Guide Dialog box, click Add UNIX Exports. Result: The Add Unix Exports Wizard appears.
2	In the Add Unix Exports Wizard, click Next. Result: The Export Directory Path dialog box appears.
3	In the Export Directory Path dialog box, complete the following steps. - Enter the export directory path or the alias name and alias path. - Mount <i>exports</i> on the host UNIX or Linux system. - Create a new directory under the <i>exports</i> mountpoint. - Create a new export with StoreVault Manager. - Click Next. Note _____ You can give alias name to the export directory path, if the path name is long. If you enter an optional alias path, it must be different from the export path. All export paths must start with <i>/vol/exports/</i>. _____ Result: The Unix Exports Access dialog box appears.

Step	Action
4	In the Unix Exports Access dialog box, complete the following steps. - Specify read-only, read-write, or root access for specific hosts or for all hosts. - Enter specific hosts by using any one of the following items: host name, host IP address, netgroup, subnet, or DNS domain name. - Click Next. Result: The Unix Exports Security dialog box appears.
5	In the Unix Exports Security dialog box, complete the following steps. The Anonymous User ID (UID) sets what UID will be given to an unknown user trying to access a particular export. The default value is 65534. Note _____ Change this value only if you have an extensive knowledge of the UNIX file system security. - Enter the user ID for the anonymous user on the client. - Select a check box for the security protocol to be used. - Click Next. Result: The Add Unix Exports Summary dialog box appears.
6	In the Add Unix Exports Summary dialog box, verify the information and click Apply. Result: The Add Export Wizard Finished dialog box appears.
7	Click Finish. Result: The Exports Properties dialog box appears displaying the newly created UNIX export.

Creating LUNs

This section explains steps for creating a Generic LUN on your StoreVault storage system using quick guide.

Creating a Generic LUN

You can create a LUN for Generic application using the LUN wizard for different operating systems. For this LUN you can enable Snapshot copies and LUN reserve auto-tuner

For creating a LUN for generic application type, complete the following steps.

Step	Action
1	In the Quick Guide Dialog box, click Create LUN . Result: The Create LUN Wizard appears.
2	In the Create LUN Wizard, click Next . Result: The LUN Parameters dialog box appears.

Step	Action
3	In the LUN Parameters dialog box, complete the following. a. In LUN Application Type list, select Generic. b. Type the name of the LUN. Note _____ Ensure that there are no blank spaces in the LUN name. For example, type name as <i>LUN1</i> instead of <i>LUN 1</i>. <i>shares</i> and <i>exports</i> are reserved names and cannot be used as LUN names. Special characters are not allowed while naming LUNs. c. Type the size of the LUN. Note _____ The minimum size for a LUN is 5 GB and the maximum is 2047 GB. By selecting Windows GPT OS type you can create a LUN size of maximum of 12 TB. d. Select the operating system for the LUN from the list (Windows, Linux, Solaris, NetWare, or Windows GPT). e. Type a description (optional).

Step	Action	
	f. To capture Snapshot copies, select the 'Turn on snapshotting'. Note _____ Select the 'Turn on snapshotting' check box to set up replication for a LUN. When selecting a LUN, the right-click option for replication will not be visible unless Snapshotting is enabled for that LUN. g. Select Enable LUN Reserve AutoTuner. Note _____ You can enable LUN reserve auto-tuner for a LUN size of 50 GB or greater and you need to enable snapshotting before enabling LUN reserve auto-tuner. Attention _____ You cannot enable LUN reserve auto-tuner after creating a LUN. h. Click Next. Result: The Map Servers to the LUN dialog box appears.	
	If..	Then..
	You want add an existing host to the list	Follow Step 4
	You want to change the host name	Follow Step 5
	You want to manually add host	Follow Step 6

Step	Action
4	The list on the left displays all existing hosts that are connected to the StoreVault storage system using iSCSI or FCP. The list on the right displays the host that the LUN will be mapped to after the wizard has created it. To add an existing host to the list, select a host from the list on the left pane, and click the right arrow to move it to the mapped hosts in the list on the right pane. Similarly, to remove a mapped group, select the group to remove, and click the left arrow. Note For a GPT-based LUN of size greater than 2 TB, you must map this LUN to a Windows 2003 SP1 (or later version) initiator. If you map the LUN to an initiator of another Windows operating system, then the LUN does not display in the Disk Management window. Click Next. Result: The Confirm LUN Settings dialog box appears.
5	Changing host name: To change the host name, complete the following steps. - Select the host initiator whose name you would like to change. To change the host name, click Change host name. The Change Host Name dialog box appears. - Enter the new name and click OK. You will be taken to the Map Servers to the LUN dialog box and the new name appears on the list on the left side. - In the Map Servers to the LUN dialog box, follow Step 4

Step	Action
6	Manually adding hosts: - Click Manually add host on the Map Servers to the LUN dialog box. The Add Initiator Group dialog box appears. - Enter the initiator group name, protocol type (iSCSI or FCP), operating system (Windows, Linux, Solaris, NetWare, and VMware), and enter the list of initiator names. For an FCP initiator group, enter worldwide port names (WWPNs). For an iSCSI initiator group, enter iSCSI initiator node names. - Click OK. You are returned to the Map Servers to the LUN dialog box. - In the Map Servers to the LUN dialog box, follow Step 4 Note _____ To get the iSCSI initiator node name, go to Start > Programs > Microsoft iSCSI Initiator > Microsoft iSCSI Initiator. The iSCSI Initiator Properties dialog opens. You will find the initiator node name on the General tab.
7	In the Confirm LUN Settings dialog box verify the information and click Commit. Result: The Create LUN Success dialog box appears.
8	In the Create LUN Success dialog box, click Finish. The Storage Overview and Primary Storage section gets refreshed. For example, the iSCSI LUN named <i>Sales</i> now appears in the Primary Storage list. Now, the host server is ready to initialize, partition, and format this new LUN.

