

## StorNext 3.5 File System

### Syntax conventions:

- *italics* = replace with a variable
- [ ] = optional component

### cvadmin

Command	Options	Description
cvadmin		Displays the active and standby SNFS server processes. Can be used to inspect and modify the state of active servers.
	-H <i>FSMHostName</i>	Connects to the StorNext FS on the specified machine ( <i>FSMHostName</i> ).
	-F <i>FileSystemName</i>	Sets the file system ( <i>FileSystemName</i> ) as the active file system.
	[ -f <i>filename</i> ]	Reads commands from the specified file.
	[ -e <i>command</i> ]	Runs the cvadmin <i>command</i> and exits. (Commands are listed below.)
	activate <i>file_system_name</i>	Activates the file system ( <i>file_system_name</i> ).
	debug [ [ +   - ] <i>value</i> ]	Views or sets the StorNext FS debugging flags.
	disks [ refresh ]	Displays StorNext FS disk volumes visible to this machine. If the refresh option is used, the volumes are re-scanned.
	down <i>groupname</i>	Disables access to the stripe group ( <i>groupname</i> ).
	fail <i>file_system_name</i>   <i>index_number</i>	Fails over the file system ( <i>file_system_name</i> ).
	filelocks [ yes   no ]	Shows file record lock enforcement.

Command	Options	Description
cvadmin	fsmlist	Displays the state of the FSM process.
	help [ <i>command</i>   ? ]	Displays a usage summary of <i>command</i> .
	latency-test [ <i>index_number</i>   all ] [ <i>seconds</i> ]	Runs a network latency test between the FSM and a client or all clients.
	paths	Displays StorNext FS labeled disks visible to the local system.
	proxy [ long ]	Displays distributed LAN servers for the selected file system. With the long argument, the served disks are also displayed.
	proxy who <i>hostname</i>	Displays all active distributed LAN connections for the specified host.
	qos	Displays per-stripe group QOS statistics.
	repof	Creates a report showing all open files on the file system.
	quit	Disconnects cvadmin from the StorNext FS and exits.
	quotas [ yes   no ]	Enables or disables quota accounting and enforcement.
	quotas get [ user   group ] <i>name</i>	Displays current quota parameters for the user or group ( <i>name</i> ).
	quotas set [ user   group ] <i>name</i> <i>hardlim</i> <i>softlim</i> <i>timelim</i>	Sets current quota parameters for the user or group ( <i>name</i> ).
	quotacheck	Recalculates the amount of space consumed by all users and groups in the file system.
	repquota	Generates quota reports for all users and groups in the file system.
	select [ <i>file_system_name</i> ]	Selects the file system ( <i>file_system_name</i> ) to view and modify.
	show [ <i>groupname</i> ] [ long ]	Displays information about stripe groups ( <i>groupname</i> ) associated with the file system.

Command	Options	Description
cvadmin	start <i>file_system_name</i> [ <i>hostname</i>   <i>IP address</i> ]	Starts the StorNext FS manager for the specified file system ( <i>file_system_name</i> ).
	stat	Displays the general status of the file system.
	stop <i>file_system_name</i> [ <i>hostname</i>   <i>IP address</i> ]	Stops the StorNext FS manager for the specified file system ( <i>file_system_name</i> ).
	up <i>groupname</i>	Enables the stripe group ( <i>groupname</i> ).
	who [ long [ <i>client_index</i> ] ]	Queries the client list for the selected file system.

### cvaffinity

Command	Options	Description
cvaffinity		Establishes an affinity to a stripe group or lists the current affinity of a file.
	[ -k <i>key</i> ]	Indicates where the file system should place the data file. If the <i>key</i> parameter is defined, then the data file is placed on stripe groups specified to support this parameter.
	[ -s <i>key</i> ]	Associate affinity <i>key</i> with file or directory <i>filename</i> .
	[ -l ]	Lists the affinity for the specified file.
	[ -d ]	Deletes the affinity from the specified file or directory.
	<i>filename</i>	File or directory name.

### cvcp

Command	Options	Description
cvcp		Provides a high speed, multi-threaded copy mechanism to copy directories and tar images to and from the StorNext FS.
	<i>Source</i>	Source file or directory.

Command	Options	Description
cvcp	<i>Destination</i>	Destination file or directory.
	[ -A ]	Disables file pre-allocation.
	[ -b <i>buffers</i> ]	Sets the number of I/O buffers.  Default value: Two times the number of copy threads started.
	[ -k <i>buffer_size</i> ]	Sets the I/O buffer size.  Default value: 4MB
	[ -l ]	Copies the target of symbolic links rather than copying the link itself.
	[ -n ]	Prevents recursion through subdirectories.
	[ -p <i>source_prefix</i> ]	Only copies files that begin with the value of the <i>source_prefix</i> parameter.
	[ -s ]	Forces allocations to line up on the beginning block modulus of the stripe group.
	[ -t <i>num_threads</i> ]	Specifies the number of copy threads.  Default value: 4
	[ -u ]	Only copies when the source file is newer than the destination file.
	[ -v ]	Displays verbose output about the copied files.
	[ -x ]	Retains original permissions from the source file. If set by the super user, also sets sticky and setuid/gid bits.
	[ -y ]	If set by the super user, retains ownership and group information.
	[ -z ]	Retains original modification times.

## cvfsck

Command	Options	Description
cvfsck		Checks and repairs a file system.
	[ -C ]	Reset the inode free list.
	[ -d ]	Enables internal debugging.
	[ -e ]	Reports statistics on all file extents.
	[ -f ]	Reports fragmentation.
	[ -g ]	Prints the journal recovery log.
	[ -j ]	Executes journal recovery and exits.
	[ -J ]	Dumps the raw journal to stdout and exits. For debugging use only.
	[ -K ]	Resets the journal and exits.  <b>WARNING:</b> Resetting the journal may introduce metadata inconsistency. Exercise extreme caution when using this option.
	[ -l ]	Logs problems to syslog.
	[ -n ]	Enables a file system to be checked in a read-only mode.
	[ -r ]	Displays where files are placed and moves them to a different stripe group.
	[ -t ]	Reports on allocation covering restricted areas of a stripe group.
	[ -T <i>directory</i> ]	Places temporary files in the specified directory.
	[ -v ]	Displays verbose output.
	[ -x ]	Reports statistics for input to a spreadsheet.
	<i>FsName</i>	Specifies the file system to check.
<i>FsPath</i>	Specifies an alternate file system path (other than /usr/cvfs/data) to locate file systems.	

## cvfsid

Command	Options	Description
cvfsid		Displays the StorNext FS system identifier.

## cvlabel

Command	Options	Description
cvlabel		Labels StorNext FS disk devices.
	-l	Lists available disk devices on the system.
	-L	Lists available disk devices (verbose format).
	-u <i>VolumeName</i>	Unlabels the specified volume ( <i>VolumeName</i> ).
	[ -s ]	When used with the -l or -L option, prints the disk device serial number.
	[ -v ]	Displays verbose output about labeling.
	[ -a ]	Prints unusable disk devices when used with the -l or -L option.
	[ -q <i>tag_q_depth</i> ]	Used to set Command Tag Queue Depth ( <i>tag_q_depth</i> ) on IRIX.  Default value: 16
	[ -f ]	Forces labeling.
	-c	Outputs a cvlabel format template file to stdout.
	-D <i>VolumeName</i>	Writes label information of specified volume to <b>stdout</b> .
	[ -r ]	Forces relabeling even if there are no changes.
	[ -e ]	Changes the label type from VTOC to EFI.
[ -E ]	Changes the default label type to EFI.	
[ <i>label_list</i> ]	File that specifies StorNext disk labels.	

## cvmkdir

Command	Options	Description
cvmkdir		Creates a StorNext directory and attaches the affinity parameter [ -k key ] to it.
	[ -k key ]	Indicates, to the file system, the affinity to associate with the directory. All new sub-directories and files beneath the directory inherit its affinity as they are created.
	dirname	Path where the directory is created.

## cvmkfile

Command	Options	Description
cvmkfile		Creates a pre-allocated file on StorNext FS.
	[ -k key ]	Indicates where the file system should place the data file. If key is defined, the file is placed on stripe groups specified to support key.
	[ -p ]	Forces the allocation and subsequent expansions to fit as multiples of the <i>InodeExpandMin</i> parameter.
	[ -s ]	Forces the allocation to begin on a stripe-aligned block.
	[ -w ]	Sets the file size to the size parameter.
	[ -z ]	Causes the file to physically zero out.
	size [ k   m   g ]	Specifies the file size in bytes. If appended with k, m, or g, the value represents kilobytes, megabytes, or gigabytes.
	filename	Name of the file to create.

## cvmkfs

Command	Options	Description
cvmkfs		Initializes a StorNext FS.  <b>WARNING:</b> This command destroys any existing file system data for the file system ( <i>file_system_name</i> ). Use extreme caution when invoking cvmkfs.
	[ -G ]	Bypasses "Press return to continue..." type prompts.
	[ -F ]	Bypasses all verification prompts.  <b>WARNING:</b> Use this flag with extreme caution.
	[ -n #k, m, g ]	Pre-allocates inodes on StorNext FS.
	file_system_name	Name of the StorNext FS to initialize.

## cvupdatefs

Command	Options	Description
cvupdatefs		Commits a StorNext FS configuration change.
	[ -c pathname ]	Use the specified file as the original configuration and run cvfsck before applying updates from the new configuration file.
	[ -F ]	Forces commit of the updated configuration.  <b>WARNING:</b> This option skips the confirmation step of cvupdatefs. Use this option with extreme caution.
	[ FsName ]	Specifies the file system ( <i>FsName</i> ) to update.
	[ FsPath ]	Specifies a path (other than /usr/cvfs/data) to locate file systems.

## cvversions

Command	Options	Description
cvversions		Displays StorNext client and server versions.

## Windows Utilities

Utility	Description
StorNext File System Administrator	Starts and stops a StorNext file system. Views and modifies a file system and stripe group attributes. <b>Start &gt; All Programs &gt; StorNext File System &gt; File System Administrator</b>
StorNext File System Configuration Administrator	Creates or modifies a StorNext file system configuration by changing the selected <i>file_system_name.cfg</i> file. This utility is only available on the server where the StorNext FS software is loaded. <b>Start &gt; All Programs &gt; StorNext File System &gt; Server Configuration</b>
StorNext File System Disk Labeler	Labels disk devices for use with a StorNext file system. <b>Start &gt; All Programs &gt; StorNext File System &gt; Disk Device Labeler</b>
StorNext File System Client Properties	Modifies the StorNext file system client configuration files. <b>Start &gt; All Programs &gt; StorNext File System &gt; Client Configuration</b>
Start StorNext File System Services	Starts up the background services needed by StorNext system. Starts all file systems configured for auto-start. <b>Start &gt; All Programs &gt; StorNext File System &gt; Start File System Services</b>
Stop StorNext File System Services	Stops all StorNext file systems and shuts down background services needed by StorNext FS. <b>Start &gt; All Programs &gt; StorNext File System &gt; Stop File System Services</b>

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