

StorNext 3.5.1 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 hardlim softlim 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. WARNING: 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 stdout . |
| | [-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. WARNING: 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. WARNING: 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. WARNING: 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. Start > All Programs > StorNext File System > File System Administrator |
| 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. Start > All Programs > StorNext File System > Server Configuration |
| StorNext File System Disk Labeler | Labels disk devices for use with a StorNext file system. Start > All Programs > StorNext File System > Disk Device Labeler |
| StorNext File System Client Properties | Modifies the StorNext file system client configuration files. Start > All Programs > StorNext File System > Client Configuration |
| Start StorNext File System Services | Starts up the background services needed by StorNext system. Starts all file systems configured for auto-start. Start > All Programs > StorNext File System > Start File System Services |
| Stop StorNext File System Services | Stops all StorNext file systems and shuts down background services needed by StorNext FS. Start > All Programs > StorNext File System > Stop File System Services |

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