

## StorNext FX 2.2 File System

### Syntax conventions:

- <brackets> = 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 <FSMHostName> ]	Connects to the StorNext FS on the specified machine (FSMHostName).
	[ -F <FileSystemName> ]	Sets the file system (FileSystemName) as the active file system.
	[ -f <filename> ]	Reads commands from the specified file.
	[ -e <command> ]	Runs the cvadmin command and exits. <b>Note: Commands are listed below.</b>
	activate <file_system_name>	Activates the file system (file_system_name).
	debug [ [ +   - ] <value> ]	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 <groupname>	Disables access to the stripe group (groupname).
	fail <file_system_name   index_number>	Fails over the file system (file_system_name).

Command	Options	Description
cvadmin	fsmlist [ <file_system_name> ] [ on [ <hostname>   <IP_address> ] ]	Displays the state of FSM processes for the specified file system, hostname, or IP address.
	filelocks [ yes   no ]	Shows file record lock enforcement.
	help <command>	Displays a usage summary of command.
	latency-test [ <index_number>   all ] [ seconds ]	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.
	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 ] <name>	Displays current quota parameters for the user or group (name).
	quotas set [ user   group ] <name> <hardlim> <softlim> <timelim>	Sets current quota parameters for the user or group (name).
	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 <file_system_name>	Selects the file system (file_system_name) to view and modify.
	show [ <groupname> ] [ long ]	Displays information about stripe groups (groupname) associated with the file system.

Command	Options	Description
cvadmin	start <file_system_name> [ <hostname>   <IP_address> ]	Starts the StorNext FS manager for the specified file system (file_system_name).
	stat	Displays the general status of the file system.
	stop <file_system_name>	Stops the StorNext FS manager for the specified file system (file_system_name).
	up <groupname>	Enables the stripe group (groupname).
	who	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 <key> ]	Indicates where the file system should place the data file. If the key parameter is defined, then the data file is placed on stripe groups specified to support this parameter.
	[ -s <key> ]	Associate affinity key with file or directory filename.
	[ -l ]	Lists the affinity for the specified file.
	[ -d ]	Deletes the affinity from the specified file or directory.
	<filename>	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.
	<source>	Source file or directory.

Command	Options	Description
cvcp	<destination>	Destination file or directory.
	[ -A ]	Disables file pre-allocation.
	[ -b <buffers> ]	Sets the number of I/O buffers.  Default value: Two times the number of copy threads started.
	[ -d ]	Copies the files and sub-directories under <b>Source</b> to <b>/Destination/Source</b> .
	[ -k <buffer_size> ]	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 <source_prefix> ]	Only copies files that begin with the value of the <b>source_prefix</b> parameter.
	[ -s ]	Forces allocations to line up on the beginning block modulus of the stripe group.
	[ -t <num_threads> ]	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.	

## cvfsid

Command	Options	Description
cvfsid		Displays the StorNext FS system identifier.
	[ -? ] [ -h ]	Displays usage.
	[ -l ]	Lists the local host's Authorizing IDs, IP addresses, and MACs (Linux only).
	[ -n ]	Displays the network information in a compact, machine readable form.

## 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 <b>key</b> is defined, the file is placed on stripe groups specified to support <b>key</b> .
	[ -p ]	Forces the allocation and subsequent expansions to fit as multiples of the <b>InodeExpandMin</b> parameter.

Command	Options	Description
cvmkfile	[ -s ]	Forces the allocation to begin on a stripe-aligned block.
	[ -w ]	Sets the file size to the <b>size</b> parameter.
	[ -z ]	Causes the file to physically zero out.
	<size> [ k   m   g   t ]	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.

## cvversions

Command	Options	Description
cvversions		Displays StorNext client and server versions.

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