

Data ONTAP™ Software 5.3

Quick Reference Guide

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Filer Commands

For further information about filer commands, through a Web browser, open http://your_filer/na_admin/man/ and choose a command. Or, from a client, consult the on-line man pages using the man command.

Commands followed by a plus sign (+) have a Cluster Considerations section in the command's man page.

Command	Description	Syntax
?	Displays command function.	? <i>command</i> ...
adconfig +	Configures ATM devices.	adconfig <i>device</i> (display configuration) adconfig -p <i>VPI_bits device</i> adconfig -l on off <i>device</i> adconfig -f sonet sdh <i>device</i> adconfig -i idle unassigned <i>device</i> adconfig -c external internal <i>device</i>
adinfo	Displays ATM device information.	adinfo [-c <i>device</i>]
adstat +	Displays ATM device driver statistics.	adstat [-poa045d] <i>device</i> [<i>interval</i>]
arp +	Displays and controls address resolution.	arp <i>host</i> arp -a arp -d <i>host</i> arp -s <i>host ether_addr</i> [temp] [pub]
atmarp +	Displays and controls ATM address resolution.	atmarp [-N] <i>host</i> atmarp [-N] -a atmarp -s <i>host dev vpi vci aal</i> [null llc_routed llc_bridged_8023 <i>dst_mac_addr</i>] [<i>peak</i>] atmarp -l <i>dev vpi vci aal</i> [null llc] atmarp -d <i>host</i> atmarp -x <i>dev vpi vci</i> atmarp -f
atmconfig	Configures FORE/IP.	atmconfig <i>dev</i> atmconfig -q <i>peak</i> off <i>dev</i> atmconfig -{c s} <i>vpi vci aal</i> [<i>peak</i>] <i>dev</i>
cf	Manages a cluster.	cf [disable enable forcegiveback forcetakeover giveback[-f] partner status takeover]
cifs access	Sets and modifies share-level ACL.	cifs access <i>share user</i> -g <i>group rights</i> cifs access -delete <i>share user</i> -g <i>group</i>
cifs comment	Displays or changes server description.	cifs comment [<i>description</i>]
cifs lookup	Translates between name and SID.	cifs lookup { <i>name</i> S-x-y-z}
cifs restart	Restarts CIFS service.	cifs restart
cifs sessions	Displays information about current CIFS activity.	cifs sessions [-s] [<i>user</i>]
cifs setup +	Configures CIFS service.	cifs setup
cifs shares	Sets up and displays CIFS shares.	cifs shares cifs shares <i>share</i> cifs shares -add <i>share path</i> [-comment <i>desc</i> [-forcegroup <i>group</i>] [-maxusers <i>n</i>] cifs shares -change <i>share path</i> [-comment <i>desc</i> -nocomment] [-forcegroup <i>group</i> -noforcegroup] [-maxusers <i>limit</i> -nomaxusers] cifs shares -delete <i>share</i>
cifs stat	Prints CIFS statistics.	cifs stat [<i>interval</i>]

Command	Description	Syntax
<code>cifs terminate</code>	Terminates CIFS service.	<code>cifs terminate [wkstation] [-t mins]</code>
<code>cifs testdc</code>	Tests connection to domain controllers.	<code>cifs testdc</code>
<code>date +</code>	Displays or sets the date.	<code>date [-u] [[[[[cc]yy]mm]dd]hhmm[.ss]]</code>
<code>df</code>	Displays free disk space.	<code>df [-i] [vol_name]</code>
<code>disk fail</code>	Removes a file system disk from its RAID group.	<code>disk fail diskname</code>
<code>disk remove</code>	Removes a spare disk.	<code>disk remove diskname</code>
<code>disk scrub</code>	Starts and stops RAID scrubbing.	<code>disk scrub [start stop]</code>
<code>disk swap</code>	Enables removing or adding a disk.	<code>disk swap</code>
<code>disk unswap</code>	Undoes disk swap.	<code>disk unswap</code>
<code>download +</code>	Installs new version of Data ONTAP.	<code>download</code>
<code>dump +</code>	Dumps file system to tape on filer or remote host.	<code>dump [options [arguments]] subtree</code>
<code>elarp +</code>	Shows or manipulates MAC to ATM address mappings.	<code>elarp show [-elan elan -mac mac] [-unit unit]</code> <code>elarp delete -all -elan elan -mac mac] [-unit unit]</code>
<code>elconfig +</code>	Configures ATM Forum LAN Emulation.	<code>elconfig show [elan -auto -all -configured -less] [-unit unit]</code> <code>elconfig add elan -auto [-unit unit] [-if interface] [-les ATMaddress] [-type ethernet]</code> <code>elconfig delete elan -auto -lecs [-unit unit]</code> <code>elconfig set -lecs ATMaddress -wellknown -manual [-unit unit]</code> <code>elconfig wait</code>
<code>exportfs</code>	Exports or unexports directories to NFS clients.	<code>exportfs [-aiuv] [-o options] [pathname]</code>
<code>fctest</code>	Tests fibre channel environment.	<code>fctest [adapter]</code>
<code>filestats</code>	Collects file usage statistics.	<code>filestats [ages ages] [timetype {a,m,c,cr}] [sizes sizes] snapshot snapshot_name [style style] [volume volume_name]</code>
<code>halt +</code>	Stops the filer.	<code>halt [-d] [-t mins][-f]</code>
<code>help</code>	Displays command function.	<code>help [command ...]</code>
<code>host</code>	Displays or sets filer's name.	<code>host [name]</code>
<code>httpstat +</code>	Displays HTTP statistics.	<code>httpstat [-tz] [interval]</code>
<code>ifconfig +</code>	Displays or sets network interface parameters.	<code>ifconfig interface [[alias -alias] address] [netmask mask] [broadcast address] [mediatype type] [mtusize size] [up down] [trusted untrusted] [wins -wins] [partner -partner address]</code> <code>ifconfig -a</code>
<code>ifstat +</code>	Displays network device statistics.	<code>ifstat [-z] -a interface_name</code>
<code>license +</code>	Licenses Data ONTAP services.	<code>license [service=code] ...</code>
<code>logout</code>	Logs out.	<code>Ctrl-D</code>
<code>maxfiles</code>	Increases or displays maximum number of files.	<code>maxfiles [vol_name [max]]</code>
<code>mt +</code>	Positions and controls magnetic tape.	<code>mt [-f -t tapedevice] command [count] [command [count] ...]</code>
<code>ndmpd</code>	Manages NDMP service.	<code>ndmpd [on off status probe[session] kill [session]]</code>

Command	Description	Syntax
netstat +	Displays network statistics.	netstat [-an] [-p <i>protocol</i>] netstat -mnrs netstat -i -I <i>interface</i> [-dn] netstat -w <i>interval</i> [-i -I <i>interface</i>] [-dn]
nfs	Turns NFS service On or Off.	nfs [on off]
nfsstat +	Displays NFS statistics.	nfsstat [<i>interval</i>] nfsstat [-c] [-t] -h [<i>ip_addr</i> <i>host_name</i>] nfsstat -l [-t] nfsstat -z
options +	Sets and shows filer options. “options command options” on page 5 has details.	options [<i>option value</i>] ...
partner	Executes <i>command</i> in partner mode and toggles between partner and takeover mode.	partner [<i>command</i>]
passwd +	Sets or changes filer password.	passwd
ping	Checks whether network hosts are reachable.	ping [-s] [-Rrv] <i>host</i> [<i>packetsize</i> [<i>count</i>]]
qtree	Creates and manages qtrees.	qtree qtree create [<i>name</i>] qtree security [<i>name</i> [unix ntfs mixed]] qtree oplocks [<i>name</i> [enabled disabled]]
quota	Controls filer disk quotas.	quota [on off resize] [<i>vol_name</i>]
quota qtree	Creates a qtree.	quota qtree [<i>name</i>]
quota report	Shows quota information.	quota report [<i>path</i>]
rdate +	Sets date from remote host.	rdate <i>host</i>
reboot +	Stops and restarts filer.	reboot [-d] [-t <i>mins</i>]
restore +	Restores files or file systems from dump backups.	restore <i>key args</i> ...
route +	Explicitly manipulates routing table.	route [-fn] add delete[<i>host net</i>] <i>dest gateway</i> [<i>metric</i>]
routed	Controls network routing daemon.	routed [on off] routed status [-n]
savecore +	Saves a core dump.	savecore
secureadmin	Administers the SecureAdmin™ feature.	secureadmin status version secureadmin disable enable ssh secureadmin setup [-f] ssh
setup +	Updates filer configuration.	setup
shelfchk +	Verifies disk shelf status.	shelfchk
snap create	Creates a snapshot.	snap create [<i>vol_name</i>] <i>name</i>
snap delete	Deletes a snapshot.	snap delete [<i>vol_name</i>] <i>name</i>
snap list	Displays snapshot information.	snap list [<i>vol_name</i>]
snap rename	Renames a snapshot.	snap rename [<i>vol_name</i>] <i>from to</i>
snap reserve	Displays and sets the space reserved for snapshots.	snap reserve [<i>vol_name</i>] [<i>percent</i>]]
snap sched	Schedules snapshots.	snap sched [<i>vol_name</i>] [<i>weeks</i> [<i>days</i> [<i>hours</i> [@ <i>list</i>]]]]]
snmp +	Lists SNMP variable values.	snmp
snmp authtrap	Toggles SNMP agent authentication failure trap.	snmp authtrap [0 1]
snmp community	Adds or deletes communities.	snmp community add delete [ro rw] [<i>community</i>]
snmp contact	Sets SNMP contact name.	snmp contact [<i>contact</i>]
snmp init	Sets and queries SNMP initialization.	snmp init [0 1]
snmp location	Sets SNMP location.	snmp location [<i>location</i>]

Command	Description	Syntax
snmp traphost	Adds or deletes recipients of filer's Trap PDUs.	snmp traphost [add delete <i>host</i> <i>ipaddress</i>]
snmp traps	Controls SNMP traps.	snmp traps [on off reset delete] snmp traps <i>trapname.parameter value</i> snmp traps <i>trapname</i> on off reset delete
sysconfig +	Displays filer hardware configuration.	sysconfig[-d -m -r -t][-v] [slot]]
sysstat +	Displays filer statistics.	sysstat [interval]
timezone +	Sets current time zone.	timezone <i>name</i>
uniconfig +	Configures UNI for ATM.	uniconfig show [-unit <i>unit</i>] uniconfig set properties [-unit <i>unit</i>] [-version 3.0 3.1 auto] [-address <i>atm_addr</i>] uniconfig set failover [-state off static dynamic] [-group <i>unit ...</i>]
uptime +	Shows how long system has been up.	uptime
useradmin	Adds, deletes, or lists administrative users.	useradmin useradd [-c " <i>comments</i> "] <i>login_name</i> useradmin userdel <i>login_name</i> useradmin userlist [<i>username_list</i>]
version	Displays software version.	version
vif	Creates and destroys virtual interfaces.	vif create [<i>vif_name</i>] <i>interface_name ...</i> vif destroy <i>vif_name</i> vif stat <i>vif_name</i> [interval]
vol add +	Adds disks to existing <i>vol_name</i> volume.	vol add <i>vol_name ndisks</i> [@size] -d <i>diskname ...</i>
vol copy abort	Terminates a vol copy operation.	vol copy abort [<i>op_number</i>]
vol copy start	Copies data from one volume to another.	vol copy start [-S -s] <i>src dest</i>
vol copy status	Shows progress of vol copy operations.	vol copy status [<i>op_number</i>]
vol copy throttle	Controls operation copy speed in tenths of full speed.	vol copy throttle [<i>op_number</i>] <i>value</i>
vol create +	Creates a new <i>vol_name</i> volume.	vol create <i>vol_name</i> [-r <i>raidsize</i>] <i>ndisks</i> [@size] [-l <i>language_code</i>] -d <i>diskname ...</i>
vol destroy	Destroys <i>vol_name</i> and returns its disks to the spare pool.	vol destroy <i>vol_name</i>
vol lang	Controls and displays the languages used by volumes.	vol lang [<i>volname</i> [<i>language_code</i>]
vol offline	Takes <i>vol_name</i> off-line.	vol offline <i>vol_name</i>
vol online	Brings <i>vol_name</i> on-line.	vol online <i>vol_name</i>
vol options	In <i>vol_name</i> , sets value of <i>optname</i> option to <i>optval</i> or gets the value of <i>optname</i> option. See “vol options command options” on page 8.	vol options <i>vol_name optname optval</i> vol options <i>vol_name optname</i>
vol rename +	Renames <i>vol_name</i> to <i>newname</i> .	vol rename <i>vol_name newname</i>
vol snaprestore	Reverts a volume to a specified snapshot.	vol snaprestore <i>volname</i> [-s <i>snapshot</i>] [<i>volname</i> [-s <i>snapshot</i>]...]
vol status	Displays volume status and configuration.	vol status [-d -l -r -v][<i>vol_name</i>]
ypwhich	Prints name of NIS server.	ypwhich

Options

These are options to the `options` command and the `vol options` command. For detailed descriptions, refer to “Configuring filer options” in Chapter 2 of the *System Administrator’s Guide*.

Options followed by an equal sign (=) must have the same value on both filers in a cluster.

options command options

Option	Description	Value (default)
<code>autosupport.doit</code>	Sends autosupport email immediately.	string explaining purpose of email (none)
<code>autosupport.enable</code>	Enables or disables autosupport feature.	on, off (on)
<code>autosupport.from</code>	Specifies user name as sender of autosupport email.	user name (autosupport)
<code>autosupport.mailhost</code>	Specifies up to five mail hosts for sending autosupport email.	host names (none)
<code>autosupport.noteto</code>	Specifies up to five recipients of autosupport short notes.	email addresses (none)
<code>autosupport.to</code>	Specifies up to five recipients of autosupport email.	email addresses (autosupport@netapp.com)
<code>cifs.access_logging_enab</code>	Toggles the logging of CIFS access events.	on, off (off)
<code>cifs.access_logging.file_name</code>	Sets the name of the CIFS access log.	/etc/log/adtllog.evt
<code>cifs.bypass_traverse_checking</code>	When On (the default), directories in the path to a file are not required to have the 'X' (traverse) permission. This option does not apply in UNIX.	on, off (on)
<code>cifs.guest_account</code>	Enables a CIFS user not in a trusted domain to log in without having an account.	guest account (blank)
<code>cifs.home_dir</code>	Specifies the complete path name of the CIFS “homes directory.”	path name (none)
<code>cifs.idle_timeout</code>	Sets the number of milliseconds that elapse before the filer disconnects an idle session.	number (60000)
<code>cifs.netbios_aliases</code>	Provides alternative names for the filer.	Comma-separated list of names (none)
<code>cifs.oplocks.enable</code>	Enables CIFS clients to use oplocks (opportunistic lock) file caching on a filer.	on, off (on)
<code>cifs.perm_check_use_gid</code>	When On, if the requestor is not the owner, files with UNIX security are checked. When Off, files with UNIX security style are checked in a way that works better when controlling access through share-level ACLs.	on, off (on)
<code>cifs.scopeid</code>	Specifies a second element (case-sensitive) for a single-element NetBIOS computer name.	string (blank)
<code>cifs.search_domains</code>	Specifies a list of domains that trust each other to search for a mapped account.	Comma-separated list that is searched in order (none - all domains are searched)
<code>cifs.show_snapshot =</code>	Shows <i>snapshot</i> directory.	TRUE, FALSE (FALSE)

Option	Description	Value (default)
cifs.symlinks.cycleguard	When On, if an object being accessed by a CIFS client is a symbolic link, prevents the following of a symbolic link that resolves to a directory that is directly above the symbolic link's parent directory.	on, off (on)
cifs.symlinks.enable	If an object being accessed by a CIFS client is a symbolic link, allows the filer to follow the link.	on, off (on)
console.encoding	Specifies how non-ASCII character information is presented on the console.	nfs sgml utf8
dns.domainname =	Sets the DNS domain name to the specified domain name.	domain name (none)
dns.enable =	Enables the DNS client.	on, off (off)
httpd.admin.enable =	Enables HTTP access to HTML on-line Help files.	on, off (on)
httpd.enable	Enables HTTP access to the filer.	on, off (off)
httpd.log.max_file_size	Specifies the number of bytes the HTTP log file, <i>/etc/log/httpd.log</i> , can grow to. The maximum value is 500 GB.	integer (2147483647 (2 GB - 1))
httpd.rootdir	Specifies the HTTP root directory.	(none)
httpd.timeout =	Specifies the minimum amount of time, in seconds, before idle HTTP connections time out.	integer (900 (15 minutes))
httpd.timewait.enable =	When the option is enabled, the filer puts HTTP connections that have been closed by the client in the TIME_WAIT state for one minute.	on, off (off)
ip.match_any_addr	If the option is On, the filer accepts any packet that is addressed to it even if that packet came in on the wrong interface.	on, off (off)
ip.path_mtu_discovery.enable =	Enables or disables MTU discovery used by IP.	on, off (on)
nfs.mount_rootonly	Allows or disallows only root using privileged ports to mount from filer.	on, off (on)
nfs.per_client_stats.enable =	Enables or disables per-client statistics in the nfsstat displays.	on, off (off)
nfs.tcp.enable	Enables or disables NFS over TCP.	on, off (on)
nfs.v2.df_2gb_lim =	Returns replies to the "file system statistics" NFS requests that show no more than 2 GB on the file system.	on, off (off)
nfs.v3.enable =	Enables or disables NFS version 3.	on, off (on)
nfs.webnfs.enable	Enables or disables WebNFS.	on, off (off)
nfs.webnfs.rootdir	Specifies the root, or public, directory for WebNFS.	path name (none)
nfs.webnfs.rootdir.set	Sets the WebNFS root directory.	false, true (false)
nis.domainname =	Specifies the NIS domain name.	domain name (none)
nis.enable =	Enables or disables NIS.	on, off (off)
pcnfsd.enable =	Enables or disables PC(NFS) daemon.	on, off (off)
pcnfsd.umask	Specifies permission mask for files created by an NFS client.	number (022)
raid.reconstruct_speed =	Specifies the RAID reconstruction speed.	number [0-10] (4)
raid.scrub.enable	Enables or disables RAID scrubbing.	on, off (on)
raid.timeout =	Sets the hours that the filer runs after a single-disk failure.	a number greater than 1 (24)

Option	Description	Value (default)
rsh.enable	Enables the rsh server on the filer.	on, off (on)
snmp.enable	Enables the SNMP server on the filer.	on, off (on)
telnet.enable	Enables the Telnet server on the filer.	on, off (on)
telnet.hosts	Specifies up to five clients that can access the filer by Telnet.	host names, * [all hosts], or - [no host] (*)
timed.enable	When On, the filer synchronizes its time with a time server.	on, off (on)
timed.log	Specifies whether time changes initiated by timed are logged to the console.	on, off (on)
timed.max_skew	Specifies the maximum amount of skew between the time reported by the time server and the filer's time allowed when synchronizing the time.	n{s m h} (30m - 30 minutes)
timed.proto	Specifies the protocol used to synchronize time.	rdate,sntp (sntp)
timed.sched	Specifies the timed synchronization schedule.	hourly multihourly daily n{m h} (hourly)
timed.servers	Specifies up to five time servers.	Comma-separated ordered list of host addresses
vol.copy.throttle =	Sets default speed for all vol copy operations in tenths of full speed.	number [0-10] (10)
wafl.convert_unicode	When On, forces conversion of all directories to Unicode format when accessed from both NFS and CIFS.	on, off (off)
wafl.create_unicode	Setting this option to On forces Unicode format directories to be created by default, both from NFS and CIFS.	on, off (off)
wafl.default_nt_user	Specifies the Windows NT user account to use when a UNIX user accesses a file with NT security (has an ACL), and that UNIX user would not otherwise be mapped. If this option is set blank, such accesses are denied.	(none)
wafl.default_unix_user	Specifies the UNIX user account to use when a Windows NT user attempts to log in and that Windows NT user would not otherwise be mapped. If this option is set blank, such accesses are denied.	(none)
wafl.maxdirsize =	Sets the maximum size of a directory file in KB.	number (10240)
wafl.nt_admin_priv_map_to_root	Maps a Windows NT administrator to UNIX root.	on, off (on)
wafl.root_only_chown =	Allows only root to change the owner of a file.	on, off (on)
wafl.wcc_minutes_valid	Specifies the number of minutes a WAFL credential cache entry is valid.	1 through 20160 (20)

vol options **command options**

Volume Option	Description	Value (default)
minra	If On, causes the filer to perform only minimal read ahead on <i>vol_name</i> .	on, off (off)
no_atime_update	If On, prevents the update of the access time on an inode in <i>vol_name</i> when a file is read.	on, off (off)
nosnap	If On, disables automatic snapshots on <i>vol_name</i> .	on, off (off)
nosnapdir	If On, disables the visible snapshot directory at the client mount point of <i>vol_name</i> and disables access to all other snapshot directories on <i>vol_name</i> .	on, off (off)
nvfail	If On, the filer performs additional status checking at boot time to verify that the NVRAM is in a valid state.	on, off (off)
root	Makes <i>vol_name</i> the root volume.	(none)
raidsize	Sets the maximum size of a new RAID group in <i>vol_name</i> .	$n > 0$ (14)
snapmirrored	If you want to convert a destination volume used in the SnapMirror™ feature to a regular volume, you turn this option off.	on, off (on)