



AMASS[®] Version 5.3

Contents

	Page
Commands	01
Scripts	21
Utilities	23

italics = replace with a variable

Note: Commands are listed alphabetically.

Commands (/usr/amass/bin)

Command	Options	Description
adf	-h view message describing output -r view relative paths -u usage -V do not print and underline column titles	View statistics for volume groups

Command	Options	Description
amass-backup	no option do partial backup to Backup Volume -f do full backup to Backup Volume -d <i>tapedevice</i> do full backup to standalone drive -u usage -v verbose	Back up: • Database • Journal to a Backup Volume

Command	Options	Description
amassreport	no option generate formatted report -a <i>date time</i> base list on specified modified date -d list directories -e <i>errnumber</i> base list on specified error# -f list files -g <i>gid</i> base list on specified group ID -l <i>date time</i> base list on specified access date -L <i>length</i> base list on specified page length -m <i>mode</i> base list on specified mode -n <i>name</i> base list on specified name -o <i>filename</i> send list to specified file -p <i>prid</i> base list on specified parent record ID -P list full path -r <i>rid</i> base list on specified record ID -R generate raw report -s <i>size</i> base list on specified file size -S list Last Accessed and Last Modified time in seconds since 1970 -u <i>uid</i> base list on specified user ID -v <i>volume</i> list files on specified volume -Z <i>volumegroup</i> list directories from specified volume group	Generate file system information

Command	Options	Description
amass-restore	<p>-d <i>tapedevice</i> enter standalone drive that reads Backup Volume</p> <p>-D <i>drivenumber</i> enter drive# that reads Backup Volume</p> <p>-e <i>date</i> restore Database to specified date</p> <p>-J <i>jukeboxnumber</i> enter juke# where Backup Volume resides</p> <p>-L <i>label</i> enter barcode of Backup Volume</p> <p>-P <i>slot</i> enter storage slot# where Backup Volume resides</p> <p>-t list files on Backup Volume; does not restore</p> <p>-u usage</p> <p>-v verbose</p>	Restore Database and Journal files from Backup Volume
amassstat	<p>no option view and toggle status</p> <p>-a activate</p> <p>-c view status only</p> <p>-f force AMASS to inactivate immediately</p> <p>-f -t <i>seconds</i> force inactivation after specified seconds</p> <p>-i inactivate but allow read and write access from and to open files</p> <p>-s suppress most messages</p> <p>-u usage</p> <p>-v view version#</p> <p>-w inactivate but allow reads from open files</p> <p>-y return message code</p>	Change AMASS status

Command	Options	Description
astats	<p>no option list number of libraries configured, drives, media, volume ID, status</p> <p>-c display device flags</p> <p>-h do not display headers</p> <p>-j display number of libraries configured and their status</p> <p>-u usage statement</p> <p>-v display volume status flags</p> <p>-w display device I/O mode flags</p> <p>-A equivalent to -cijvw</p> <p>-s <i>seconds</i> scan and display info in a loop after sleeping for specified number of seconds</p>	View the status and attributes of library, drives, and media
bulkinlet	<p>no option load new media</p> <p>-e <i>volumenumber</i> load specified volume# (valid for SCSI only)</p> <p><i>volumegroup</i> assign value 1-2047, SP, CL, or MV</p> <p><i>jukeboxnumber</i> juke# where volumes resides</p> <p>-u usage statement</p> <p>-y suppress messages</p>	Load multiple volumes via mailbox
bulkload	<p>no option mark volume Online based on juke inventory</p> <p>-s synchronize with juke mgmt database but mark status based on inventory</p> <p>-u usage statement</p> <p><i>volumegroup</i> assign value 0-2047, SP, CL, or MV</p>	Create entries in AMASS Database. Valid for net juke only at a new site.

Command	Options	Description
bulkoutlet	<p>-u usage statement</p> <p><i>volumenumber</i> unload specified volume#</p> <p>-y suppress interactive messages</p>	Unload multiple volumes. Valid for multi-slot mailboxes only.
cblist	<p>-u usage</p> <p><i>volumegroup</i> enter volume group#</p> <p>-y suppress messages</p>	View read and write cache block list values
cbwghtlist	no option	View weight factor values for each cache block list
cdimport	<p>-i use CD header</p> <p>-L view CD header; does not import data</p> <p>-n <i>userlabel</i> specify user-defined label</p> <p>-p <i>path</i> enter full path to new location</p> <p>-r replace old path with new import path</p> <p>-R mark volume available for reads and writes</p> <p>-u usage statement</p> <p>-U view file names as uppercase</p> <p>-v verbose</p> <p><i>volumenumber</i> enter volume#</p>	Import data on CD
dirfilelist	<p>-h view StorageTek drive block address in hex</p> <p><i>path</i> enter full or relative path</p> <p>-u usage</p> <p>-v verbose</p>	View files under a directory, one entry per line

Command	Options	Description
drivechk	<i>drivenumber</i> enter drive# <i>jukeboxnumber</i> enter juke# where drive resides -u usage -V <i>volumenumber</i> enter media verification volume number from the MV volumegroup -y suppress messages	Check quality of drive for use by IFL
driveclean	<i>drivenumber</i> enter dirty drive# <i>jukeboxnumber</i> enter juke# -u usage -v verbose -V <i>volumenumber</i> enter volume# of cleaning cartridge -y suppress messages	Clean tape drive
drivededicate	no option view status and toggle -d make write-only -n make read & write <i>drivenumber</i> enter drive# <i>jukeboxnumber</i> enter juke# where drive resides -u usage -y suppress messages	Change drive's mode.
drivelist	no option view status of all drives <i>drivenumber</i> view status of specified drive# <i>jukeboxnumber</i> enter juke# -u usage -y suppress messages	View status and errors for drives

Command	Options	Description
drivestat	no option view & toggle status -a <i>drive</i> activate specified drive -e <i>secs drivenumber</i> reset idle eject feature on specified drive# -i <i>drivenumber</i> inactivate specified drive# <i>jukeboxnumber</i> enter juke# -u usage -y suppress messages	Change drive's status
fileonmedia	-u usage -v verbose <i>filename</i> enter full path to specified file	Report if file has been stored on media
healthcheck	-i test integrity of Database -c verify cache partitions -C continue testing if a test fails -f <i>path</i> test file transfer Enter full path to file name -l <i>jukeboxnumber drivenumber</i> <i>volumenumber</i> test library, enter juke#, drive#, volume# -s view summary report -u usage -v verbose -w check cache blocks and fnodes	Test AMASS components

Command	Options	Description
mqverify	-b <i>blocknumber</i> verify specified block# -c <i>count</i> test specified block count -d <i>drivenumber</i> enter drive# -f force verification process -g <i>volumegroup</i> verify all volumes in volumegroup -i <i>interval</i> test blocks at specified interval -m test only newly reported suspect blocks -M test all blocks -q suppress information messages -s <i>blocknumber</i> test starting at specified block address -u usage -v <i>volnumber</i> or <i>#volserialnumber</i> verify volume# -x <i>volnumber</i> or <i>#volserialnumber</i> verify volume# -y suppress messages	Selects IFL-verified drive, verifies volumes and volume groups for use by IFL
setcblist	-u usage -y suppress messages -r <i>read_list volumegroup</i> assign 1-8 value to read cache block list -w <i>write_list volumegroup</i> assign 1-8 value to write cache block list	Assign a read and a write cache block list value

Command	Options	Description
setcbwght	-u usage -y suppress messages <i>cachelist_number</i> enter 1-8 list value <i>weight_factor</i> assign either a 32-bit # or a zero	Assign weight factor values to cache block list values
setdrvrrt	<i>drivenumber</i> reset error counts on specified drive# <i>jukeboxnumber</i> enter # -u usage -y suppress messages	Reset error counts, reported by <i>drive.list</i> , to zero
setvolerr	<i>jukeboxnumber</i> enter juke# -u usage <i>volumentnumber</i> reset error counts on specified volume# -y suppress messages	Reset error counts, reported by <i>vol.list</i> , to zero
setvolgrp	-f force assignment <i>path</i> enter full path to directory -u usage <i>volume_group</i> enter volume group# -y suppress messages	Assign directories to a specified volume group

Command	Options	Description
sysop	Operator Interface -c view cache block queue information -f filename log information to specified file name -k view kernel -l enable external program -u usage statement -w wait_time enter how long, in seconds, AMASS should display mount information	Access standalone drives Use <Control- C> to exit
sysperf	Program Interface link -c view cache block queue information -f filename log information to specified file name -k view kernel -u usage statement <i>updateinterval</i> enter time in seconds when screen is refreshed	record mount and unmount information in /tmp/sysop.out View AMASS I/O activity
tapelength	<i>lengthcode</i> enter tape length -u usage statement <i>volumentnumber</i> enter volume# -y suppress messages	Define tape length for: • RSP 2150 • STK SD-3

Command	Options	Description
vgxport	-d remove Database entries on source AMASS -f metafilepath enter file path -g ignore volume verification -q do not verify volume header -u usage <i>volume_group</i> enter volume group# -y suppress messages	Export for specified volume group: • data • attributes
vgimport	<i>metafilepath</i> enter file name -p path enter relative path to source -u usage statement -v volumentnumber enter volume# you are importing -y suppress messages	Import for specified volume: • data • attributes
vglist	no option view attributes of all volume groups -a view compression and tape block size only -u usage <i>volume_group</i> view attributes of specified volume group -y suppress messages	View attributes of volume group

Command	Options	Description
vgpool	-c use only CD media -d disable space pool -e enable space pool -i view status -j <i>jukeboxnumber</i> look for space pool in specified juke -r use only rewritable optical media -s use standard (non-NSR) media in this volume group -t use only tape media -u usage <i>volumegroup</i> enter volume group# -w use only worm -y suppress messages	Define conditions for out-of-space volume group
vgreadonly	no option view and toggle status -r make read-only -u usage <i>volumegroup</i> enter volume group# -w make write and read -y suppress messages	Change volume's mode
vgroot	-u usage <i>volumegroup</i> enter volume group# -y suppress messages	View relative path for volume group

Command	Options	Description
vhextract	-a list active volumes -g <i>volgroup</i> list specified volume group -i list inactive volumes -o list offline volumes -sc list volumes currently verified -sd list replaced volumes -sf list volumes verified as failed -si list relabeled volumes -sn list new (unverified) volumes -sr list volumes due for replacement -sv list volumes due for verification -s <i>date_time</i> list data since specified date and time -t <i>date_time</i> list data through specified date and time -u usage -v <i>volnumber</i> or <i>#volserialnumber</i> list data for volume# -x <i>volnumber</i> or <i>#volserialnumber</i> list data for volume	Generate information from IFL Database

Command	Options	Description
vmist	no option list all types of volumes -a list active volumes -f <i>a</i> list volumes absent from library -fn nonresident volume -fr IFL Reference Volume in MV volume group -fx exempt from IFL -i list inactive volumes -o list offline volumes -sc list volumes currently verified -sd list replaced volumes -sf list volumes verified as failed -si list relabeled volumes -sn list new/unverified volumes -sr list volumes due for replacement -sv list volumes due for verification -s <i>date_time</i> list data since specified date and time -u usage	List media available for IFL.

Command	Options	Description
volclatr	-c <i>currentusage</i> redefine how many times volume has been used -e <i>errorcount</i> enter # of errors volume can have before rejection -m <i>maxusage</i> enter # of times volume can be used before rejection -t <i>cleantime</i> set time in seconds for duration of cleaning -u usage <i>volume#</i> enter volume# -y suppress messages	Define attributes for cleaning volumes
volclean	-u usage <i>volume#</i> enter volume# -y suppress messages	Delete files but not volume# from Database
volcomp	-u usage <i>volume#</i> enter volume# -v enable progress reporting -y suppress messages	Recover dead space on volume
volcopy	<i>destjukebox</i> enter juke# where destination media resides <i>destslot#</i> enter slot# where destination media resides -f force copy onto destination media <i>sourcevolume</i> enter volume# of source media <i>type</i> enter type of copy to perform (-c, -v, -cv) -u usage -y suppress messages	Copy data from source media to destination media

Command	Options	Description
voldelete	-u usage <i>volume#</i> enter volume# -y suppress messages	Delete from Database: <ul style="list-style-type: none"> files volume#
voldir	-u usage <i>volume#</i> enter volume#	View time and date files were accessed
volfilelist	-a view full path -h view StorageTek drive block address in hex -i view file's inode -l print file names last -n view no append files -r view relative path <i>volume#</i> enter volume# -u usage -v verbose	View files on a volume, one file per line
volformat	no option write header on tape; do full format on optical -b <i>blocksize</i> enter block size for tapes -c (on or off) toggle compression for tapes -d num -p force format on optical media -q do quick format on optical media -u usage <i>volume#</i> enter volume# -y suppress messages	Format media

Command	Options	Description
volgroup	-f force assignment to which volume group: <ul style="list-style-type: none"> # space pool (SP) cleaning group (CL) -u usage <i>volume#</i> enter assignment <i>volume#</i> enter volume# -y suppress messages	Assign volume to which volume group: <ul style="list-style-type: none"> # space pool (SP) cleaning group (CL)
volinlet	-u usage <i>volume#</i> enter volume# -y suppress messages	Load volume in mailbox on SCSI juke
vollabel	<i>newvolume#</i> enter 13- character name or barcode -u usage <i>volume#</i> enter volume# -y suppress messages	Change volume label
volleft	-u usage <i>volume#</i> enter volume# -y suppress messages	Write space (in KB) remaining on volume to <code>stdout</code>
vollist	no option view attributes for all volumes -g <i>volume#</i> view attributes for specified volume group -u usage <i>volume#</i> view attributes for specified volume# -y suppress messages	View attributes for: <ul style="list-style-type: none"> volumes volume group
volloc	-n Online -o Offline -u usage <i>volume#</i> enter volume# -y suppress messages	Mark volume: <ul style="list-style-type: none"> online offline

Command	Options	Description
volmedia	-Ay set absent flags -An clear absent flags -d <i>date_acquired</i> <i>volume#</i> or <i>date_acquired #volserialnumber</i> enter date media was put in service MM/DD/YYYY -D delete all records -D <i>volume#</i> or -D <i>#volserialnumber</i> delete specified <i>volume#</i> -l <i>lot volume#</i> or -l <i>lot #volserialnumber</i> enter media lot or case number -m <i>manufacturer volume#</i> or -m <i>manufacturer #volserialnumber</i> enter brand name -Ny set nonresident flags -Nn clear nonresident flags -P purge all records in history log file -Pb <i>date</i> purge all records prior to specified date -P <i>date volume#</i> or -P <i>date #serial</i> purge records for <i>volume#</i> prior to specified date -P <i>volume#</i> or -P <i>#volserialnumber</i> purge records for <i>volume#</i> -Ry set Reference Volume flags -Fn clear Reference Volume flags -Sc set state of volume to "current"	Display, modify IFL Database

Command	Options	Description
volmedia (cont'd)	-Sv set state of volume to "verification" -Sr set state of volume to "replacement" -t <i>type volume#</i> or -t <i>type #volserialnumber</i> enter reorder number -u usage -y suppress messages -Xy set IFL exempt flag -Xn clear IFL exempt flag <i>volume#</i> or #volserialnumber perform action on <i>volume#</i>	
volnew	jukeboxnumber enter <i>juke#</i> <i>slot</i> enter storage slot# -u usage <i>volume</i> <i>group</i> <i>assignment</i> <i>volume</i> <i>label</i> enter 13-character name or barcode -y suppress messages	Create entry in Database for new volume
volnote	-u usage -y suppress messages <i>volume#</i> enter description for <i>volume#</i> <i>volume#</i> "text" enter 255-character description -d <i>volume#</i> delete description for specified <i>volume#</i>	Enter a user-defined description for volume
voloutlet	-u usage <i>volume#</i> enter <i>volume#</i> -y suppress messages	Unload volume from library with a mailbox

Command	Options	Description
volreadonly	no option view and toggle mode -r make read-only -u usage <i>volume#</i> enter <i>volume#</i> -w make read and write -y suppress messages	Change volume's mode
volreplace	-f -g <i>volgroup</i> force replacement of specified volume group -f -v <i>volume#</i> or -f -v <i>#volserialnumber</i> force replacement of <i>volume#</i> -f -x <i>volnumber</i> or -f -x <i>#volserialnumber</i> exclude from replacement -q suppress information messages -S f include volumes in "verification failed" state -S r include volumes in "replacement due" state -u usage -y suppress messages	Establish priority list of IFL volumes to replace
volslot	<i>jukeboxnumber</i> enter <i>juke#</i> <i>slot</i> enter storage slot# -u usage <i>volume#</i> enter <i>volume#</i> -y suppress messages	Change home storage slot in Database; but do not move media
volspace	<i>%deadspace</i> enter value between 0 and 99% -u usage -y suppress messages	View volumes with a specified percentage of dead space

Command	Options	Description
volstat	no option view and toggle status -a activate volume -i inactivate volume -u usage <i>volumentnumber</i> enter volume# -y suppress messages	Change volume status
volusage	-h view output description -H do not print and underline column titles -u usage -V verify volume# and display inconsistencies.	View statistics for volumes

Scripts (/usr/amass/tools)

Scripts	Options	Description
amass_atboot	no option view current status -d do not start AMASS on boot -e enable to start AMASS on boot	Define status of AMASS startup commands
amass_log	-w prints messages to 120 chars wide <i>logfilepath</i> enter the pathname of system log file	Redirect the AMASS system log messages to the console
amass_snap	no option	Collect system information after a problem occurs

Scripts	Options	Description
amass_start	no option	Start AMASS and mount the file system
amass_tests	Refer to the <i>Utility Reference</i> chapter in <i>Managing the AMASS File System</i> for a list of tests.	Test AMASS configuration and storage devices
install_tests	-b = do not enable AMASS at bootup -d =bypass drive load tests (WARNING -use -d only if no drive changes have been made!) -n = do not start amass_start scrip -u =usage	Run tests and modify startup script to automatically start AMASS at bootup
killdaemons	no option bring AMASS down, if there are no outstanding IO requests -f force shutdown -f -t seconds force inactivation after specified seconds	Inactivate AMASS, unmount file system, kill AMASS daemons

Utilities (/usr/amass/utills)

Utilities	Options	Description
amass-recovery	no option start AMASS, recover files in cache, return media to home slot -i no file recovery -s prevent system startup	Perform file recovery and initialize checkpoint
dbcheck	-a databasename enter full dbfile name	Check consistency of Database
sl_logger	-f filename enter name of the logfile -x pathname enter path -p priority enter level of messages you want redirected -t tag identify log requester <i>location</i> specify where message should be redirected	Redirect messages to location other than system log
fileincache	-u usage -v verbose <i>fullpath_filename</i> enter full path to the file you want status on	Report status of a file in the AMASS I/O cache
filepath	<i>rid</i> enter the AMASS File System Database record ID number -u usage statement	View full path of specified record ID

Utilities	Options	Description
fileprint	-h view StorageTek drive block address in hex <i>filename</i> enter name of file W#rid enter record ID -r rid enter record ID -u usage statement	View Database information for: <ul style="list-style-type: none"> • file • directory. • symbolic link.
initamass	CAUTION: All information for: file system, juke, drive, and media is destroyed.	Initialize AMASS Database Typically, this is done only for disaster recovery.
init_element	<i>jukeboxnumber</i> enter juke#	List slot and drive inventory
init_journal	CAUTION: All transaction logs are deleted	Clear the transaction log by reinitializing it to an empty journal. Typically, this is done only for disaster recovery.
keybuild	<i>dbname</i> enter full db file name	Rebuild key tables
mediaeject	<i>drivenumber</i> enter drive# <i>jukeboxnumber</i> enter juke#	Eject media from specified drive

Utilities	Options	Description
mediaerase	<i>drivenumber</i> enter drive# <i>endblock</i> end erase <i>jukeboxnumber</i> enter juke# <i>startblock</i> start to erase	Erase data from specified block CAUTION: Destroys data
medialist	-j jukeboxnumber enter juke# -s element enter drive#, slot#, or M for mailbox	View status of elements
mediamove	0 tape media 1 flip to side B <i>destination</i> enter drive#, slot#, or M for mailbox <i>jukeboxnumber</i> enter juke# <i>source</i> enter drive#, slot#, or M for mailbox	Move media
mediaread	<i>blocknumber</i> enter start block <i>drivenumber</i> enter drive# <i>jukeboxnumber</i> enter juke#	Read media one block at a time
mediawrite	-b blocksize enter the blocksize value in bytes, kilobytes, or megabytes <i>blocknumber</i> enter start block# <i>drivenumber</i> enter drive# <i>jukeboxnumber</i> enter juke#	Write data at specified block CAUTION: Destroys data

Utilities	Options	Description
printjournal	-d did specific drive id to print -e date ending date of print -f fid specific file id to print -j fullpath current on disk journal only -J jukeboxnum backup volume located in this jukebox -k keep journal file on disk when done printing -L label backup volume with this media label -n drive drive number to use -P position backup number is in this slot -s date starting date of print -t print journal directory -v vid specific volume id to print	Print journal file to stdout
quedisplay	-c view streaming I/O cache blocks Note: valid only for specific tape drives -q view volume number and number of read/write requests in I/O queue	View I/O queue

NOTES

Utilities	Options	Description
write- cachemru	-d reuse non-dirty or empty cache blocks on a least-recently used basis -e reuse WRITE cache blocks before READ cache blocks -u usage statement	Allow AMASS to use WRITE cache blocks before READ cache blocks

Utilities	Options	Description
sysdbchk	-c dir -d check file name duplicates -h show usage information -i use interactive mode to repair errors -l dir set directory for log files to 'dir' -n xxx - set number of errors to repair (default 1000) -q quiet mode, do not print to the screen -r repair database after checking -s skip repair method question -y check and repair errors no option - check only	Verify consistency of file system
volprint	Display information for all volumes -a display both tape block size & compression values volume number enter unique volume#	View Database information for volumes

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