DataCore vFilO
Command Line Reference

Version 4.2

DATACORE | vFilO

www.datacore.com

About This Guide

This is the command line reference for DataCore vFilO.

The chapters reference different management areas and at the end is an alphabetical command index.

Share Management

share-clone-create

Usage: share-clone-create [options]
Clone share snapshot

Options:
  --async   Determines that the command will be executed asynchronously. A reference task
                           identifier will be returned
  * --destination-path   Destination directory path for clone. The path must be relative to the share's root
                           directory
  --help   Display this help and exit
  --overwrite-destination   Whether to overwrite the destination directory if it exists
  * --share-id   Share ID. Required unless "--share-name" is specified
  * --share-name   Share name. Required unless "--share-id" is specified
  * --snapshot-name   Name of snapshot to be cloned

share-create

Usage: share-create [options]
Create a share
Example: share-create --name share2 --path /share2 --export-option *,rw,no-root-squash

Options:
  --async   Causes the command to be executed asynchronously. A reference task identifier will
                           be returned
  --description   A textual description of the share
  --export-option   Export options for the share. Each value must contain <subnet,access-
                           permission,{no-}root-squash>.
  --help   Display this help and exit
  * --name   The method the system uses to identify the share. This name should be unique
                           between all shares.
  * --path   The share path (i.e. /share1). The / prefix must be specified.
  --preferred-domain   Preferred domain in which users have accounts. This field is required for mapping
                           users from another domain into this domain
  --size   Limit the share size (quota)
  --size-warning-threshold Threshold (1-99 percent) for share capacity usage, an event will be sent if this
                           threshold is reached.
  --unmapped-group   Default group name, if there is no mapping discovered into the preferred domain.
  --unmapped-user   Default user name, if there is no mapping discovered into the preferred domain.

share-delete

Usage: share-delete [options]
Delete a share

Options:
  --async   Causes the command to be executed asynchronously. A reference task identifier will be
                         returned
  --delay   Postpone share space reclaim for period of time (for example 24h). Mutually exclusive with "-
                    -now"
  --delete-path   Delete the share path directory when the share is purged. Directory must be empty in order
                    to be deleted
  --help   Display this help and exit
  * --id   The ID of the share to delete. Required unless "--name" or "--internal-id" is specified
  * --internal-id   The internal ID of the share to delete. Required unless "--id" or "--name" is specified
  * --name   The name of the share to delete. Required unless "--id" or "--internal-id" is specified

--now   Share space will be reclaimed immediately. Mutually exclusive with "--delay"

share-list

Usage: share-list [options]
Display a list of all shares available in the system. Two types of lists can be displayed: a full list and a summary list (default)

Options:
  --full   Print extra information
  --help   Display this help and exit
  --id   The ID of the share to list
  --internal-id   The internal ID of the share to list
  --name   The name of the share to list

share-mount

Usage: share-mount [options]
Mount a share

Options:
  --async   Causes the command to be executed asynchronously. A reference task identifier will be returned
  --help   Display this help and exit
* --id   The ID of the share to mount. Required unless "--name" or "--internal-id" is specified
* --internal-id   The internal ID of the share to mount. Required unless "--id" or "--name" is specified
* --name   A name to identify the share. Required unless "--id" is specified

share-move

Usage: share-move [options]
Move share to a different path

  Options:
   --async   Causes the command to be executed asynchronously. A reference task identifier will be
                          returned
   --help   Display this help and exit
 * --id   The ID of the share to move. Required unless "--name" or "--internal-id" is specified
 * --name   The name of the share to move. Required unless "--id" or "--internal-id" is specified
 * --internal-id The internal ID of the share to move. Required unless "--id" or "--name" is specified
 * --path   Path to mount the share on (i.e. /share1). The / prefix must be specified.

share-objective-add

Usage: share-objective-add [options]
Apply an objective to a share (or at a path within the share)

  Options:
   --clear-existing   Causes all previously added objectives at path to be removed
   --help   Display this help and exit
 * --id   The ID of the share. Required unless "--name" or "--internal-id" is specified
 * --internal-id   The internal ID of the share. Required unless "--id" or "--name" is specified
 * --name   The name of the share. Required unless "--id" or "--internal-id" is specified
 * --objective   The objective name
   --path   A path within the share to apply the objective to. When omitted, "/" is implied

share-objective-list

Usage: share-objective-list [options]
List the applied and active objectives for a share (or at a path within the share)

  Options:
   --help   Display this help and exit
 * --id   The ID of the share. Required unless "--name" or "--internal-id" is specified
 * --internal-id   The internal ID of the share. Required unless "--id" or "--name" is specified
 * --name   The name of the share. Required unless "--id" or "--internal-id" is specified
   --path   A path within the share to list the objectives for. When omitted, "/" is implied

share-objective-remove

Remove an applied objective from a share (or from a path within the share)

  Options:
   --help   Display this help and exit
 * --id   The ID of the share. Required unless "--name" or "--internal-id" is specified
 * --internal-id   The internal ID of the share. Required unless "--id" or "--name" is specified
 * --name   The name of the share. Required unless "--id" or "--internal-id" is specified
   --objective   The objective name to be removed. When omitted, all objectives applied locally are removed
   --path   A path within the share to remove the objective from. When omitted, "/" is implied

share-offline

Usage: share-offline [options]
Take a share to the offline state

Options:
    --async   Causes the command to be executed asynchronously. A reference task identifier
                                will be returned
    --help   Display this help and exit
*   --id   The ID of the share to take offline. Required unless "--name" or "--internal-id" is
                                specified
*   --internal-id   The internal ID of the share to take offline. Required unless "--id" or "--name" is specified
*   --name   T   The name of the share to take offline. Required unless "--id" or "--internal-id" is
                                specified

share-online

Usage: share-online [options]
Bring a share to the online state

Options:
    --async   Causes the command to be executed asynchronously. A reference task identifier
                                will be returned
    --help   Display this help and exit
*   --id   The ID of the share to bring online. Required unless "--name" or "--internal-id" is specified
*   --internal-id   The internal ID of the share to bring online. Required unless "--id" or "--name" is specified
*   --name   The name of the share to bring online. Required unless "--id" or "--internal-id" is specified

share-snapshot-create

Usage: share-snapshot-create [options]
Create share snapshot
Example: share-snapshot-create --share-name test --now

Options:
    --help   Display this help and exit
    --now   Create immediate snapshot of the share
    --retention-name   Name to identify the retention
    --schedule-name   Name for the schedule of periodic snapshots of the share
*   --share-id   Share ID. Required unless "--share-name" is specified
*   --share-name   Share name. Required unless "--share-id" is specified

share-snapshot-delete

Usage: share-snapshot-delete [options]
Delete share snapshot

Options:
    --help   Display this help and exit
*   --share-id   Share ID. Required unless "--share-name" is specified
*   --share-name   Share name. Required unless "--share-id" is specified
*   --snapshot-name   Snapshot name. May include wild-card characters (for
                                example 2001-01-01T12-00*)

share-snapshot-list

Usage: share-snapshot-list [options]
List snapshots for share

  Options:
    --help   Display this help and exit
  * --share-id   Share ID. Required unless "--share-name" is specified
  * --share-name   Share name. Required unless "--share-id" is specified

share-snapshot-restore

Usage: share-snapshot-restore [options]
Restore files from a share snapshot (when used with --filename option) or a complete share snapshot.

  Options:
    --async   Determines that the command will be executed asynchronously. A reference task identifier
                         will be returned. This option can be used only when restoring the entire share
    --filename   Paths for files to be restored from the share snapshot. Multiple paths may be provided. A
                         path must be relative to the share root directory. The filename in the path may
                         include wild-card characters (for example, /dir/file*.txt)
    --help   Display this help and exit
  * --share-id   Share ID. Required unless "--share-name" is specified
  * --share-name   Share name. Required unless "--share-id" is specified
  * --snapshot-name   Share snapshot name

share-snapshot-schedule-list

Usage: share-snapshot-schedule-list [options]
List scheduled snapshots for share

  Options:
    --help   Display this help and exit
    --share-id   Share ID
    --share-name   Share name

share-snapshot-update

Usage: share-snapshot-update [options]
Update share snapshot schedule

  Options:
    --clear-snapshots   Delete all snapshots taken for the schedule. Can be provided along with remove-
                              schedule
    --help   Display this help and exit
    --new-retention-name   Name to identify the retention
    --remove-retention   Remove retention from share snapshot schedule
    --remove-schedule   Remove both schedule and retention from share snapshot
  * --schedule-name   Name for the schedule of periodic snapshots of the share
  * --share-id   Share ID. Required unless "--share-name" is specified
  * --share-name   Share name. Required unless "--share-id" is specified

share-undelete

Usage: share-undelete [options]
Abort scheduled deletion a share

 Options:
   --async   Causes the command to be executed asynchronously. A reference task identifier will be returned
   --help   Display this help and exit
 * --id   A ID to identify the share. Required unless "--name" is specified
 * --name   A name to identify the share. Required unless "--id" is specified

share-unmount

Usage: share-unmount [options]
Unmount a share

 Options:
   --async   Causes the command to be executed asynchronously. A reference task identifier will be returned
   --help   Display this help and exit
 * --id   A ID to identify the share. Required unless "--name" is specified
 * --name   A name to identify the share. Required unless "--id" is specified

share-update

Usage: share-update [options]
Update a share

 Options:
   --async   Causes the command to be executed asynchronously. A reference task identifier will
                                     be returned
   --description   A textual description of the share
   --description-clear   ""
   --export-option   Export options for the share. Each value must contain <subnet,access-permission,
                                     {no-}root-squash>
   --export-option-clear   ""
   --help   Display this help and exit
 * --id   The ID of the share to update. Required unless "--name" or "--internal-id" is specified
 * --internal-id   The internal ID of the share to update. Required unless "--id" or "--name" is specified
 * --name   The name of the share to update. Required unless "--id" or "--internal-id" is specified
   --preferred-domain   Preferred domain in which users have accounts. This field is required for
                                     mapping users from another domain into this domain
   --preferred-domain-clear   Clear preferred domain attribute
   --size   Limit the share size (quota).
   --size-clear   Set no size limit on the share (no quota).
   --size-warning-threshold   Threshold (1-99 percent) for share capacity usage, an event will be sent if this
                                     threshold is reached.
   --unmapped-group   Default group name, if there is no mapping discovered into the preferred domain
   --unmapped-group-clear   Clear unmapped group attribute
   --unmapped-user   Default user name, if there is no mapping discovered into the preferred domain
   --unmapped-user-clear   Clear unmapped user attribute

Windows

ad-discover

Usage: ad-discover [options]
Discover active directory realm

  Options:
    --help   Display this help and exit
  * --realm   Active directory realm name

ad-join

Usage: ad-join [options]
Join active directory

  Options:
    --computer-ou   The distinguished name of an organizational unit in which to create the
computer account
    --help   Display this help and exit
  * --password   Password
  * --realm   Active directory realm
  * --username   Username

ad-leave

Usage: ad-leave [options]
Leave from active directory

  Options:
    --help   Display this help and exit

ad-view

Usage: ad-view [options]
View active directory configuration

  Options:
    --help   Display this help and exit

domain-idmap-add

Usage: domain-idmap-add [options]
Create domain ID mapping rule

  Options:
  * --attribute   Rule attribute
    --bidirectional   Create bidirectional rule
  * --from   Domain to map from
    --help   Display this help and exit
    --inherit-from   Inherit by subtrees of domain to map from

--inherit-to   Inherit by subtrees of domain to map to
--no-inherit-from   Don't Inherit by subtrees of domain to map from
--no-inherit-to   Don't Inherit by subtrees of domain to map to
--order   Rule order
* --to   Domain to map to

domain-idmap-delete

Usage: domain-idmap-delete [options]
Delete domain ID mapping rule

  Options:
    --from   Domain to map from
    --help   Display this help and exit
    --id   Domain mapping ID
    --to   Domain to map to

domain-idmap-list

Usage: domain-idmap-list [options]
List domain ID mapping rules

  Options:
    --full   Print extra information
    --help   Display this help and exit
    --id   domain ID mapping ID

domain-idmap-reload

Usage: domain-idmap-reload [options]
Reload domain ID mapping rules

  Options:
    --help   Display this help and exit

smb-config

Usage: smb-config [options]
Configure SMB parameters

  Options:
    --help   Display this help and exit
    --min-smb-client   The minimal SMB client protocol (SMB1, SMB2, SMB2_10, SMB3,
                       SMB3_11);

System

backup-create

Usage: backup-create [options]
Backup product configuration and metadata

 Options:
   --async   Causes the command to be executed asynchronously. A reference task identifier
will be returned
   --help   Display this help and exit
 * --ip   IP address of the storage node
   --now   Create an immediate product backup
 * --path   The NFS export path to the backup volume
   --schedule-name   Name for the periodic product backup schedule

backup-restore

Usage: backup-restore [options]
Restore product configuration and metadata backup

 Options:
   --async   Causes the command to be executed asynchronously. A reference task identifier will
be returned
   --help   Display this help and exit
 * --ip   IP address of the storage node
 * --path   The NFS export path to the backup volume

backup-schedule-list

Usage: backup-schedule-list [options]
List the product's backup schedule

 Options:
   --help   Display this help and exit

backup-update

Usage: backup-update [options]
Update the product's backup schedule

 Options:
   --help   Display this help and exit
 * --ip   IP address of the storage node
 * --path   The NFS export path to the backup volume
   --remove-schedule   Remove a schedule
   --schedule-name   Name for the periodic product backup schedule

cluster-update

Usage: cluster-update [options]

Update Cluster configuration

Options:
  --help   Display this help and exit
  --online-activation-support   Determines whether online license activation is allowed. Allowed
                                          values:[YES, NO]
  --timezone   Specifies the timezone
  --vvol-support   Determines whether the system supports VVOLs. Allowed
                                          values:[YES, NO]

cluster-view

Usage: cluster-view [options]
View the cluster configuration

Options:
  --help   Display this help and exit

dns-list

Usage: dns-list [options]
List the DNS configuration

Options:
  --help   Display this help and exit

dns-update

Usage: dns-update [options]
Update the DNS configuration

Options:
  --help   Display this help and exit
  --servers   Set DNS server(s)
  --servers-clear   Clear DNS servers

dp-update

Usage: dp-update [options]
Update data portal

Options:
  --data-portal-id   The data portal UUID
  --data-portal-type   The data portal type (NFS or SMB)
  --disable   Set the data portal admin state to DOWN
  --enable   Set the data portal admin state to UP
  --help   Display this help and exit
  --node-name   The node name

event-list

Usage: event-list [options]
List events generated by the system

  Options:
   --cleared   Include only cleared events
   --from-date   List events after "from-date", in the format [yyyy-MM-dd|dd-MMM-yyyy]
                                [HH:mm:ss]
   --full   Print extra information
   --help   Display this help and exit
   --id   The ID of the event to list
   --last-emitted   List last emitted events
   --severity   List all events with severity greater than the given severity. Possible values:
                                DEBUG | INFORMATIONAL | NOTICE | WARNING | ERROR |
                                CRITICAL | ALERT | EMERGENCY.
   --type   List all events of a given type. e.g., SHARE_CREATED
   --uncleared   Include only uncleared events
   --until-date   List events before "until-date", in the format [yyyy-MM-dd|dd-MMM-yyyy]
                                [HH:mm:ss]

event-smtpgw-define

Usage: event-smtpgw-define [options]
Add an SMTP gateway which will be used for events and call home through a mail server

  Options:
   --from-address   Source email address from which the events will be sent
   --help   Display this help and exit
   --host   SMTP host
   --no-ssl   Disable SSL secured connection
   --password   SMTP password
   --port   SMTP port
   --ssl   Enable SSL secured connection
   --username   SMTP username

event-smtpgw-list

Usage: event-smtpgw-list [options]
View SMTP configuration

  Options:
   --help   Display this help and exit

ha-node-add

Usage: ha-node-add [options]
HA node add

  Options:
   --help   Display this help and exit
 * --ip   HA node IP address to be added

ha-node-decommission

Usage: ha-node-decommission [options]
HA node decommission

  Options:
    --help   Display this help and exit
  * --id   HA node ID to be decommissioned. Required unless "--name" is specified
  * --name   HA node name to be decommissioned. Required unless "--id" is specified

heartbeat-send

Usage: heartbeat-send [options]
Sends a heartbeat log to support

  Options:
    --help   Display this help and exit

heartbeat-update

Usage: heartbeat-update [options]
Update the heartbeat configuration

  Options:
    --disable   Disables periodic heartbeat sending
    --enable   Enables periodic heartbeat sending
    --help   Display this help and exit
    --interval   Periodic heartbeat sending interval

heartbeat-view

Usage: heartbeat-view [options]
View the heartbeat configuration

  Options:
    --help   Display this help and exit

ldap-clear

Usage: ldap-clear [options]
Clear the LDAP configuration

  Options:
    --help   Display this help and exit

ldap-list

Usage: ldap-list [options]
List the LDAP configuration

Options:
  --help   Display this help and exit

ldap-update

Usage: ldap-update [options]
Update the LDAP configuration

  Options:
  * --base   LDAP base DN
    --help   Display this help and exit
  * --url   LDAP base URL (example ldap://host:port)

license-activate

Usage: license-activate [options]
Activate license

  Options:
    --activation-file-uri   Activation file URI. For example: file:/tmp/license.bin
  * --activation-id   License activation ID
    --help   Display this help and exit

license-deactivate

Usage: license-deactivate [options]
De-activate license

  Options:
    --help   Display this help and exit

license-request-export

Usage: license-request-export [options]
Export request to activate license

  Options:
  * --activation-id   License activation ID
  * --export-uri   Destination URI for license activation request. For example: file:/tmp/activation-
                      request.bin
    --help   Display this help and exit

metric-list

Usage: metric-list [options]
List metrics

  Options:
  * --field   Field names in the format: <table-name>.<column-name> (e.g., network.bytesSent)
    --from-date   Shows metrics after date "from-date" (default: now - 1h)

--func   Computational aggregate function. Possible values: MIN | MAX | MEAN | MEDIAN.
--group-by   Time grouping interval. For example, 60s (seconds), 60m (minutes), 24h (hours), 7d (days), 52w (weeks)
--help   Display this help and exit
--limit   Total number of samples per column (default: 1000)
--name   Name criteria on the metrics
--object-type Object type criteria on the metrics
--until-date Shows metrics before date "until-date"
--uuid   Shows metrics on an object with the specified UUID

nis-config

Usage: nis-config [options]
Configure NIS servers

  Options:
    --disable   disable NIS service
    --enable   enable NIS service
    --help   Display this help and exit
    --servers   NIS servers configuration in the form domain:server, example: --servers somedomain.local:192.168.3.17. This parameter may be repeated.
    --servers-clear Clear NIS servers

nis-view

Usage: nis-view [options]
View NIS configuration

  Options:
    --help   Display this help and exit

notification-rule-create

Usage: notification-rule-create [options]
Create a notification rule

  Options:
  * --format   Notification format Possible values: XML | DEBUG.
    --help   Display this help and exit
  * --name   Rule name
  * --threshold   Severity threshold Possible values: DEBUG | INFORMATIONAL | NOTICE | WARNING | ERROR | CRITICAL | ALERT | EMERGENCY.
    --users   Destination users (each must have an email address)

notification-rule-list

Usage: notification-rule-list [options]
List notification rules

  Options:
    --full   Print extra information

--help   Display this help and exit
--id   Notification rule identifier
--name   Notification rule name

notification-rule-remove

Usage: notification-rule-remove [options]
Remove a notification rule

 Options:
  --help   Display this help and exit
 * --id   Notification rule identifier. Required unless "--name" is specified
 * --name   Notification rule name. Required unless "--id" is specified

notification-rule-update

Usage: notification-rule-update [options]
Update a notification rule

 Options:
  --help   Display this help and exit
 * --id   Notification rule identifier. Required unless "--name" is specified
 * --name   Notification rule name. Required unless "--id" is specified
  --new-format   New notification format Possible values: XML | DEBUG.
  --new-name   New name
  --new-threshold   New severity threshold Possible values: DEBUG | INFORMATIONAL |
                    NOTICE | WARNING | ERROR | CRITICAL | ALERT |
                    EMERGENCY.

ntp-list

Usage: ntp-list [options]
List the NTP configuration

 Options:
  --help   Display this help and exit

ntp-update

Usage: ntp-update [options]
Update the NTP configuration

 Options:
  --help   Display this help and exit
  --servers   Set NTP sync server(s)
  --servers-clear   Clear NTP sync servers

support-bundle

Usage: support-bundle [options]
Collect logs and information from all nodes

Options:
   --all   Collect from all available nodes
   --current   Collect from current node (default)
   --dest   Save output file into a specific folder
   --help   Display this help and exit
   --local   Collect locally
   --node   Collect from specific node
   --push   Collect and push to Support Center

remote-site-add

Usage: remote-site-add [options]
Add a remote site

 Options:
  * --address   The remote site's IP address having a MGMT role
    --help   Display this help and exit

remote-site-list

Usage: remote-site-list [options]
List known remote sites

 Options:
   --full   Print extra information
   --help   Display this help and exit
   --id   The ID of the site to be listed
   --internal-id   The internal ID of the site to be listed
   --name   The name of the site to be listed

remote-site-remove

Usage: remote-site-remove [options]
Remove a remote site

 Options:
   --help   Display this help and exit
  * --id   The ID of the site to be removed. Required unless "--name" or "— internal-id" is
specified
  * --internal-id   The internal ID of the site to be removed. Required unless "--id" or "--name" is
specified
  * --name   The name of the site to be removed. Required unless "--id" or "--internal-id" is
specified

proxy-clear

Usage: proxy-clear [options]
Clear the proxy configuration for the support-bundle and heartbeat

 Options:
   --help   Display this help and exit

proxy-set

Usage: proxy-set [options]
Configure the support-bundle and heartbeat sender to use proxy

  Options:
    --help   Display this help and exit
    --proxy-url   The proxy URL to be used for support-bundle push and heartbeats (in the form
                        http://a.b.c.d:pp)

schedule-create

Usage: schedule-create [options]
Create a schedule
Expression values follow cron syntax where:
 ',' Commas separate lists
 '-' Hyphens define ranges
 '*' Wildcard matches all cases
 '/' Slashes define step values i.e. */5 = every 5 minutes

Example: To create a schedule at 1:30 AM, 12:30 PM and 6:30 PM, Monday-Friday
schedule-create --name schedule_name --minute 30 --hour 1,12,18 --day-of-week MON-FRI

  Options:
    --day-of-month   The day of month for schedule. Allowed values are: 1-31,-*/ (default value: *)
    --day-of-week   The day of week for schedule. Allowed values are: 1-7,SUN-SAT-*/ (default
                        value: *)
    --help   Display this help and exit
    --hour   The hour for schedule. Allowed values are: 0-23,-*/ (default value: *)
    --minute   The minute for schedule. Allowed values are: 0-59,-*/ (default value: *)
    --month   The month for schedule. Allowed values are: 1-12,-*/ (default value: *)
  * --name   The name of the schedule

schedule-delete

Usage: schedule-delete [options]
Delete a schedule

  Options:
    --help   Display this help and exit
  * --id   The ID of the schedule to delete. Required unless "--name" is specified
  * --name   The name of the schedule to delete. Required unless "--id" is specified

schedule-list

Usage: schedule-list [options]
List schedules

  Options:
    --full   Print extra information

--help   Display this help and exit
--id   The ID of the schedule to list
--name   The name of the schedule to list

schedule-update

Usage: schedule-update [options]
Update a schedule
Expression values follow cron syntax where:
 ',' Commas separate lists
 '-' Hyphens define ranges
 '*' Wildcard matches all cases
 '/' Slashes define step values i.e. */5 = every 5 minutes

Example: To update a schedule to 1:30 AM, 12:30 PM and 6:30 PM, Monday-Friday
schedule-update --name schedule_name --minute 30 --hour 1,12,18 --day-of-week MON-FRI

  Options:
    --day-of-month   The day of month for schedule. Allowed values are: 1-31,-*/ (default value: *)
    --day-of-week   The day of week for schedule. Allowed values are: 1-7,SUN-SAT-*/ (default value: *)
    --help   Display this help and exit
    --hour   The hour for schedule. Allowed values are: 0-23,-*/ (default value: *)
  * --id   ID to identify the schedule. Required unless "--name" is specified
    --minute   The minute for schedule. Allowed values are: 0-59,-*/ (default value: *)
    --month   The month for schedule. Allowed values are: 1-12,-*/ (default value: *)
  * --name   Name to identify the schedule. Required unless "--id" is specified

snmp-clear

Usage: snmp-clear [options]
Clear SNMP configuration

  Options:
    --help   Display this help and exit

snmp-config

Usage: snmp-config [options]
Configure SNMP service

  Options:
    --contact   The textual identification of the contact person for this managed node, together
                      with information on how to contact this person
    --description   A textual description of the entity
    --dest   SNMP trap destination configuration. A 3-tuple including
                      <IP>,<version>,<community>. For example:
                      172.31.12.216,V2C,public
    --help   Display this help and exit
    --location   The physical location of this node

--manager   SNMP manager configuration. A 3-tuple including
             <subnet>,<version>,<community>. For example:
             172.31.0.0/16,V2C,public
--name   An administratively-assigned name for this managed node

snmp-disable

Usage: snmp-disable [options]
Disable SNMP service

  Options:
    --help   Display this help and exit

snmp-enable

Usage: snmp-enable [options]
Enable SNMP service

  Options:
    --help   Display this help and exit

snmp-view

Usage: snmp-view [options]
View SNMP configuration

  Options:
    --help   Display this help and exit

software-apply

Usage: software-apply [options]
Apply software version

  Options:
    --all   Update all nodes, mutually exclusive with "--node-name"
    --help   Display this help and exit
    --node-name   Node name, mutually exclusive with "--all"
  * --version   Version

software-list

Usage: software-list [options]
List software versions

  Options:
    --full   Print extra information
    --help   Display this help and exit

software-package-delete

Usage: software-package-delete [options]
Delete software update packages

  Options:
    --help   Display this help and exit
  * --package-name   Package name to delete

software-update-cancel

Usage: software-update-cancel [options]
Cancel software update task

  Options:
    --help   Display this help and exit
  * --task-id   Task ID

software-update-status

Usage: software-update-status [options]
Monitor update status

  Options:
    --full   Print extra information
    --help   Display this help and exit
    --task-id   Update task id

software-upload

Usage: software-upload [options]
Upload a software package with UPD format

  Options:
    --help   Display this help and exit
  * --package-location   The path to the UPD software package

syslog-clear

Usage: syslog-clear [options]
Clear Syslog configuration

  Options:
    --help   Display this help and exit

syslog-config

Usage: syslog-config [options]
Configure Syslog servers

  Options:

--help   Display this help and exit
--server   Syslog server configuration. A 3-tuple including <IP>,<port>,<transport>, example:
          192.168.1.23,514,TCP. Can be used multiple times when configuring more
          than one server.

syslog-disable

Usage: syslog-disable [options]
Disable Syslog Event forwarding

  Options:
    --help   Display this help and exit

syslog-enable

Usage: syslog-enable [options]
Enable Syslog Event forwarding

  Options:
    --help   Display this help and exit

syslog-view

Usage: syslog-view [options]
View Syslog configuration

  Options:
    --help   Display this help and exit

system-shutdown

Usage: system-shutdown [options]
Use this command to perform a clean system shutdown of the Anvil system that recalls all
layouts.

  Options:
  * --force   Confirm shutdown execution
    --help   Display this help and exit
    --reason   Shutdown reason

system-view

Usage: system-view [options]
Show an overview of the system

  Options:
    --help   Display this help and exit
    --summary   Show only a short summary of the system

task-list

Usage: task-list [options]
List all running tasks in the system. The command can also be used to list completed tasks using the status filter, showing both successful and failed tasks

  Options:
    --ended-after   List tasks that ended at or after (>=) the specified time, in the format [yyyy-MM-dd|dd-MMM-yyyy] [HH:mm:ss]
    --ended-before   List tasks that ended before (<) the specified time, in the format [yyyy-MM-dd|dd-MMM-yyyy] [HH:mm:ss]
    --full   Print extra information
    --help   Display this help and exit
    --id   The task ID
    --name   The task name
    --started-after   List tasks that started at or after (>=) the specified time, in the format [yyyy-MM-dd|dd-MMM-yyyy] [HH:mm:ss]
    --started-before   List tasks that started before (<) the specified time, in the format [yyyy-MM-dd|dd-MMM-yyyy] [HH:mm:ss]
    --status   Filter by the status of the task, possible statuses are: EXECUTING, STOPPED, FAILED, COMPLETED (successfully)

task-purge

Usage: task-purge [options]
Purge a task that FAILED or STOPPED to allow other tasks to execute that cannot currently complete

  Options:
    --help   Display this help and exit
    --id   The task ID

task-resume

Usage: task-resume [options]
Resume a task that had FAILED or STOPPED

  Options:
    --help   Display this help and exit
    --id   The task ID

User and Group Management

builtin-group-user-add

Usage: builtin-group-user-add [options]
Add user to a builtin group

  Options:
  * --group   Group name to be added to
    --help   Display this help and exit
  * --username   The username to be added

builtin-group-user-list

Usage: builtin-group-user-list [options]
List users of a builtin group

  Options:
  * --group   The group name to be listed
    --help   Display this help and exit

builtin-group-user-remove

Usage: builtin-group-user-remove [options]
Remove user from a builtin group

  Options:
  * --group   Group name to be removed from
    --help   Display this help and exit
  * --username   The username to be removed

login-policy-update

Usage: login-policy-update [options]
Update the system login policies

  Options:
    --allowed-networks   Space separated list of allowed networks in CIDR notation (i.e.
                                10.50.100.0/24)
    --allowed-networks-clear   Allow access from all remote networks
    --help   Display this help and exit
    --lock-after-failures   The number of consecutive login failures after which an account will
                                be locked. When not set, the account lockout
                                feature is disabled
    --lock-after-failures-clear Clears all login failure lock attributes. Resets failure counts for all
                                users
    --lock-failure-interval   The time in seconds between failed login attempts that constitutes
                                consecutive failures. When not set, the default is
                                15 minutes. Requires that lock-after-failures is, or
                                has been set

--lockout-time   The amount of time in seconds an account remains locked due to too
                                many consecutive login failures. When not set, the
                                default is 10 minutes. Requires that lock-after-
                                failures is, or has been set

login-policy-view

Usage: login-policy-view [options]
View the default login policies

  Options:
    --help   Display this help and exit

role-create

Usage: role-create [options]
Create a user role with access permissions
Example: role-create --name graham --acl "ANY:+c+r+u+d"

Available OBJECT_TYPEs include
ANY,EVENT,NODE,DATA_MOVER,NETWORK_IF,SHARE,USER,USER_GROUP,ROLE,TASK,
SMTP,NOTIFICATION_RULE,HEARTBEAT,NTP,LOGICAL_VOLUME,LDAP,CLUSTER,ELEME
NTAL_OBJECTIVE,OBJECTIVE,SCHEDULE,CONDITION,SNAPSHOT_RETENTION,FILE_SN
APSHOT,OBJECT_STORAGE_VOLUME,CLOUD_MOVER,OBJECT_STORE_LOGICAL_VOLU
ME,SNMP,SW_UPDATE_TASK,CTDB,SHARE_SNAPSHOT,BACKUP,SAMBA_AD,DOMAIN_ID
MAP,DATA_PORTAL,DNS,VOLUME_GROUP

  Options:
    --acl   ACL, in the format: {OBJECT_TYPE}:{+{grant permissions}}{-{revoke permissions}}.
                 possible permissions: 'c'-create, 'r'-read, 'u'-update, 'd'-delete
    --help   Display this help and exit
  * --name   The role name

role-delete

Usage: role-delete [options]
Remove a user role

  Options:
    --help   Display this help and exit
  * --id   The ID of the role to be deleted. Required unless "--name" is specified
  * --name   The name of the role to be deleted. Required unless "--id" is specified

role-list

Usage: role-list [options]
List user roles

  Options:
    --full   Print extra information
    --help   Display this help and exit

--id   The ID of the role to list
--name   The name of the role to list

role-update

Usage: role-update [options]
Update an existing user role
Example: role-update --name graham --acl "ANY:+c+r+u-d"

Available OBJECT_TYPEs include
ANY,EVENT,NODE,DATA_MOVER,NETWORK_IF,SHARE,USER,USER_GROUP,ROLE,TASK,
SMTP,NOTIFICATION_RULE,HEARTBEAT,NTP,LOGICAL_VOLUME,LDAP,CLUSTER,ELEME
NTAL_OBJECTIVE,OBJECTIVE,SCHEDULE,CONDITION,SNAPSHOT_RETENTION,FILE_SN
APSHOT,OBJECT_STORAGE_VOLUME,CLOUD_MOVER,OBJECT_STORE_LOGICAL_VOLU
ME,SNMP,SW_UPDATE_TASK,CTDB,SHARE_SNAPSHOT,BACKUP,SAMBA_AD,DOMAIN_ID
MAP,DATA_PORTAL,DNS,VOLUME_GROUP

 Options:
 * --acl   ACL, in the format: {OBJECT_TYPE}:{+{grant permissions}}{-{revoke permissions}}.
                  possible permissions: 'c'-create, 'r'-read, 'u'-update, 'd'-delete
   --help   Display this help and exit
 * --id   The ID of the role to update. Required unless "--name" is specified
 * --name   The name of the role to update. Required unless "--id" is specified

user-create

Usage: user-create [options]
Create a system user

 Options:
 * --email   The user's email address
   --first-name   The user's first name
   --gid   Group identifier
   --help   Display this help and exit
   --last-name   The user's last name
 * --password   The user's password. Passwords must be 8-20 characters long and contain at
                      least one each of: lower case letter, upper case letter, digit and non
                      alpha-numeric.
   --public-key   The user's public encryption key
 * --role-id   The role ID to apply to the user (that includes the user's access permissions.
                      Required unless "--role-name" is specified
 * --role-name   The role name to apply to the user (that includes the user's access permissions.
                      Required unless "--role-id" is specified
   --uid   User identifier
 * --username   The username that will be used to identify the user in the system

user-delete

Usage: user-delete [options]
Delete a system user

 Options:

--help   Display this help and exit
 * --id   The ID of the user to delete. Required unless "--name" is specified
 * --name   The name of the user to delete. Required unless "--id" is specified

user-import

Usage: user-import [options]
Imports users from CSV file
Example of a CSV file:
username,password,uid,gid,role,groups,public-key,first-name,last-name,email
user1,password1,0,0,viewer,"group1,group2",,John,Doe,john@example.com

 Options:
   --help   Display this help and exit
 * --uri   The URI for the CSV file containing users details. For example: file:/tmp/user.csv

user-list

Usage: user-list [options]
List all existing users

 Options:
   --full   Print extra information
   --help   Display this help and exit
   --id   The ID of the user to list
   --name   The name of the user to list

user-password-update

Usage: user-password-update [options]
Update a user password

 Options:
   --help   Display this help and exit
 * --id   The ID of the user whose password will be updated. Required unless "--name" is
                        specified
 * --name   The name of the user whose password will be updated. Required unless "--id" is
                        specified
 * --new-password   The new password. Passwords must be 8-20 characters long and contain at
                        least one each of: lower case letter, upper case letter, digit and non
                        alpha-numeric.
   --old-password   The user's old password

user-update

Usage: user-update [options]
Update the user's properties, including the applied user role. If a new role is provided it overwrites
the current user's role

 Options:
   --disable   Disable the user

```
  --email            The user's email address
  --enable           Enable the user
  --first-name        The user's first name
  --first-name-clear   ""
  --gid              Group identifier
  --gid-clear          ""
  --help             Display this help and exit
* --id               The ID that will be used to identify the user in the system. Required unless "--
                          name" is specified
  --last-name         The user's last name
  --last-name-clear    ""
* --name             The username that will be used to identify the user in the system. Required
                          unless "--id" is specified
  --public-key        The user's public encryption key
  --public-key-clear   ""
  --role-id           The role ID to apply to the user (that includes the user's access permissions
  --role-name          The role name to apply to the user (that includes the user's access
                          permissions
  --uid              User identifier
  --uid-clear          ""
```

Data Management and Objectives

basic-objective-create

Usage: basic-objective-create [options]
Create a basic objective

```
  Options:
    --allowed-online-delay      Max time (in nano-seconds) for the file to be restored from offline
                                Location back to online Location
    --archive                   Sets the archiving intent for data in a snapshot. Applicable only if selected
                                by a Snapshot Condition. Possible values: NONE |
                                ONSITE | OFFSITE.
    --availability              Availability, specified as the number of nines (number between 0 and 9)
    --description                The objective's description
    --do-not-move                Do not move
    --durability                Durability, specified as the number of nines (number between 0 and 9)
    --exclude-from               Exclude from specific locations. Format: node|volume|object-
                                volume|volume-group:{identifier}. The identifier must
                                be either UUID or name
    --help                      Display this help and exit
    --max-read-response-time    Maximal read response time, in nanoseconds
    --max-write-response-time   Maximal write response time, in nanoseconds
    --min-read-iops             Minimum read IOPs
    --min-read-throughput       Minimum read throughput, in bytes per second
    --min-write-iops            Minimum write IOPS
    --min-write-throughput      Minimum write throughput, in bytes per second
  * --name                      The objective's name
    --optimize-for-capacity     Optimize for capacity
    --place-on-list              Place on specific locations. Format: node|volume|object-volume|volume-
                                group:{identifier}. The identifier must be either UUID
                                or name
    --priority                  The objective's priority. Possible values: LOW | MEDIUM_LOW | MEDIUM |
                                MEDIUM_HIGH | HIGH.
```

basic-objective-delete

Usage: basic-objective-delete [options]
Delete a basic objective

```
  Options:
    --help              Display this help and exit
  * --id                        The ID of the objective to delete. Required unless "--name" or "--
                                internal-id" is specified
  * --internal-id   The internal ID of the objective to delete. Required unless "--id" or "--name" is
                                specified
  * --name                      The name of the objective to delete. Required unless "--id" or "--
                                internal-id" is specified
```

basic-objective-list

Usage: basic-objective-list [options]
List basic objective

Options:
--full   Print extra information
--help   Display this help and exit
--id   The ID of the objective to list
--internal-id   The internal ID of the objective to list
--name   The name of the objective to list

basic-objective-update

Usage: basic-objective-update [options]
Update a basic objective

Options:
--allowed-online-delay   Max time (in nano-seconds) for the file to be restored from offline
                                Location back to online Location
--allowed-online-delay-clear   ""
--archive   Sets the archiving intent for data in a snapshot. Applicable only if
                                selected by a Snapshot Condition. Possible
                                values: NONE | ONSITE | OFFSITE.
--archive-clear   ""
--availability   Availability, specified as the number of nines (number between 0 and
                                9)
--availability-clear   ""
--description   The objective's description
--description-clear   ""
--do-not-move   Do not move
--durability   Durability, specified as the number of nines (number between 0 and 9)
--durability-clear   ""
--exclude-from   Exclude from specific locations. Format: node|volume|object-
                                volume|volume-group:{identifier}. The
                                identifier must be either UUID or name
--exclude-from-clear   ""
--help   Display this help and exit
* --id   The ID of the objective to update. Required unless "--name" is specified
  --internal-id   The internal ID of the objective to update. Required unless "--id" or
                                "--name" is specified
--max-read-response-time   Maximal read response time, in nanoseconds
--max-read-response-time-clear   ""
--max-write-response-time   Maximal write response time, in nanoseconds
--max-write-response-time-clear   ""
--min-read-iops   Minimum read IOPs
--min-read-iops-clear   ""
--min-read-throughput   Minimum read throughput, in bytes per second
--min-read-throughput-clear   ""
--min-write-iops   Minimum write IOPS
--min-write-iops-clear   ""
--min-write-throughput   Minimum write throughput, in bytes per second
--min-write-throughput-clear   ""

* --name	The name of the objective to update. Required unless "--id" or "--internal-id" is specified
--new-name	New name.
--optimize-for-capacity	Optimize for capacity
--place-on-list	Place on specific locations. Format: node|volume|object-volume|volume-group:{identifier}. The identifier must be either UUID or name
--place-on-list-clear	""
--priority	The objective's priority. Possible values: LOW | MEDIUM_LOW | MEDIUM | MEDIUM_HIGH | HIGH.
--priority-clear	""

condition-create

Usage: condition-create [options]
Create condition

```
  Options:
    --activity    Activity in I/Os per second (IOPS)
    --help        Display this help and exit
    --inactivity  Inactivity duration (e.g., 10s, 10m, 10d, 10w)
  * --name        The condition name
  * --pattern     The condition pattern
```

condition-delete

Usage: condition-delete [options]
Remove a condition. The condition must not be associated with any objective

```
  Options:
    --help   Display this help and exit
  * --id     The ID of the condition to be deleted. Required unless "--name" is specified
  * --name   The name of the condition to be deleted. Required unless "--id" is specified
```

condition-list

Usage: condition-list [options]
List conditions

```
  Options:
    --full                Print extra information
    --help                Display this help and exit
    --id                  The ID of the condition to list
    --name                The name of the condition to list
    --show-auto-created   Show also the auto created conditions
```

condition-update

Usage: condition-update [options]
Update condition

Options:
  --activity   Activity in I/Os per second (IOPS)
  --activity-clear   ""
  --help   Display this help and exit
* --id   The ID of the condition to be updated. Required unless "--name" is specified
  --inactivity   Inactivity duration (e.g., 10s, 10m, 10d, 10w)
  --inactivity-clear ""
* --name   The name of the condition to be updated. Required unless "--id" is specified
  --pattern   Condition pattern

smart-objective-create

Usage: smart-objective-create [options]
Create an objective

  Options:
    --expression   Smart objective expression
    --help   Display this help and exit
  * --name   The smart objective name
    --rule   <comma separated conditions>:<comma separated basic objectives> (example:
                   cond-1,cond-2:obj-A,obj-B)

smart-objective-delete

Usage: smart-objective-delete [options]
Delete an objective

  Options:
    --help   Display this help and exit
  * --id   The ID of the smart objective to delete. Required unless "--name" is specified
  * --name   The name of the smart objective to delete. Required unless "--id" is specified

smart-objective-export

Usage: smart-objective-export [options]
Export smart objectives

  Options:
    --help   Display this help and exit
    --ids   The UUIDs of the smart objectives to export
    --names   The names of the smart objectives to export
    --target   The target path to export the smart objective

smart-objective-import

Usage: smart-objective-import [options]
Import smart objectives from file

  Options:
    --help   Display this help and exit
    --insecure   Connect with trust all certificate in case of https

--merge   Merge with existing or fail in case of collision
--names   The names of the smart objectives to import
--prefix   The prefix to be added to the names of the imported objectives
* --source   The path of the file listing the smart objective to import

smart-objective-list

Usage: smart-objective-list [options]
List objectives

Options:
--full   Print extra information
--help   Display this help and exit
--id   The ID of the smart objective to list
--internal-id   The internal ID of the smart objective to list
--name   The name of the smart objective to list

smart-objective-update

Usage: smart-objective-update [options]
Update an objective

Options:
--expression   Smart objective expression
--help   Display this help and exit
* --id   The ID of the smart objective to update. Required unless "--name" is specified
* --name   The name of the smart objective to update. Required unless "--id" is specified
--new-name   New name.
--rule   <comma separated conditions>:<comma separated basic objectives> (example:
                    cond-1,cond-2:obj-A,obj-B,obj-C)

Storage and Volumes

drive-list

Usage: drive-list [options]
List disk drives

  Options:
    --full   Print extra information
    --help   Display this help and exit
    --id   The ID of the disk drive to list
    --node-name   The node name

logical-volume-create

Usage: logical-volume-create [options]
Create logical volume

  Options:
    --device-path   The physical device path
    --force   Force creation will reformat existing volume
    --help   Display this help and exit
    --node-name   The node name

logical-volume-delete

Usage: logical-volume-delete [options]
Delete logical volume

  Options:
    --help   Display this help and exit
  * --id   The logical volume ID

logical-volume-discover

Usage: logical-volume-discover [options]
Discover information about logical volume

  Options:
    --help   Display this help and exit
  * --id   The logical volume ID

logical-volume-list

Usage: logical-volume-list [options]
List logical volumes

  Options:
    --full   Print extra information
    --help   Display this help and exit
    --id   The ID of the logical volume to list

--node-name   The node name

node-add

Usage: node-add [options]
Create a node in the system

 Options:
  --additional-info   Additional value. Format: key=value
  --async   Causes the command to be executed asynchronously. A reference task
                        identifier will be returned
  --cert   The node's authentication certificate. This option is mandatory for third-party
                        nodes, and is mutually exclusive of a username/password)
  --help   Display this help and exit
  --ip   Node IP address. This option is mandatory for third-party nodes
 * --name   The name to assign to the node
  --password   Authentication password. This option is mandatory for third-party nodes. The
                        cert option must accompany this option
 * --type   Node type. Possible values: PD | NETAPP_CMODE | NETAPP_7MODE |
                        NETAPP_CLOUD | EMC_ISILON | EMC_VNX | EMC_UNITY |
                        GOOGLE_CLOUD_FILESTORE | SOFTNAS_CLOUD | OTHER.
  --username   Authentication username This option is mandatory for third-party nodes. The
                        cert option must accompany this option

node-list

Usage: node-list [options]
List all nodes in the system

 Options:
  --full   Print extra information
  --help   Display this help and exit
  --id   The ID of the node to list
  --name   The name of the node to list
  --unauthorized   List only discovered unauthorized nodes connected to the system

node-mode-change

Usage: node-mode-change [options]
Modify node's mode

 Options:
  --help   Display this help and exit
 * --id   Node ID. Required unless "--name" or "--internal-id" is specified
  * --internal-id   Node internal ID. Required unless "--id" or "--name" is specified
 * --mode   Target mode. Possible values: ONLINE | MAINTENANCE |
                            POWEROFF | REBOOT.
 * --name   Node name. Required unless "--id" or "--internal-id" is specified

node-refresh

Usage: node-refresh [options]
Refresh a node in the system

  Options:
    --async   Causes the command to be executed asynchronously. A reference task identifier will
                be returned
    --help   Display this help and exit
  * --id   Node ID. Required unless "--name" is specified
  * --name   Node name. Required unless "--id" or "--internal-id" is specified
    --rescan   Rescan disk drives in node

node-remove

Usage: node-remove [options]
Remove a node from the system. A node that contains system services cannot be removed

  Options:
    --async   Causes the command to be executed asynchronously. A reference
                task identifier will be returned
    --force   Force remove, even if the node is down
    --help   Display this help and exit
  * --id   The ID of the node to remove. Required unless "--name" or "--internal-id" is specified
  * --internal-id   The internal ID of the node to remove. Required unless "--id" or "--name" is specified
   * --name   The name of the node to remove. Required unless "-- id" or "--internal-id" is specified

node-storage-repair

Usage: node-storage-repair [options]
Repair node storage volumes

  Options:
    --help   Display this help and exit
  * --id   Node ID to be repaired. Required unless "--name" is specified
  * --name   Node name to be repaired. Required unless "--id" is specified

node-update

Usage: node-update [options]
Update a node in the system

  Options:
    --cert   The node's authentication certificate
    --help   Display this help and exit
  * --id   Node ID. Required unless "--name" is specified
    --ip   Node IP address
  * --internal-id   Node internal ID. Required unless "--id" or "--name" is specified
  * --name   Node name. Required unless "--id" is specified
    --password   Authentication password

--username   Authentication username

object-storage-add

Usage: object-storage-add [options]
Add an object storage node to the product

 Options:
 * --access-key   Object storage access key
   --allow-self-signed-certificate   Trust the server's certificate without checking its CA chain
   --async   Causes the command to be executed asynchronously. A reference
                              task identifier will be returned
   --bucket-naming-virtual-host   Bucket names are prefixed to the hostname
                              (mybucket.myhost.org)
   --endpoint   * Object storage endpoint. Required unless --type specifies
                              AMAZON_S3, AZURE, or GOOGLE_CLOUD
   --help   Display this help and exit
 * --name   The name to assign to the object storage
   --proxy-host   Proxy host name/IP
   --proxy-password   Proxy password
   --proxy-port   Proxy port
   --proxy-username   Proxy username
 * --secret-key   Object storage secret key
   --type   Object storage type. Possible values: AMAZON_S3 |
                              ACTIVE_SCALE_S3 | IBM_S3 |
                              CLOUDIAN_S3 | ECS_S3 | GENERIC_S3 |
                              GOOGLE_S3 | SCALITY_S3 |
                              STORAGE_GRID_S3 | AZURE |
                              GOOGLE_CLOUD | HCP_S3.

object-storage-update

Usage: object-storage-update [options]
Update an object storage node

 Options:
   --access-key   Object storage access key
   --allow-self-signed-certificate   Trust the server's certificate without checking its CA chain
   --bucket-naming-path-style   Bucket names are suffixed as a path (myhost.org/mybucket)
   --bucket-naming-virtual-host   Bucket names are prefixed to the hostname
                              (mybucket.myhost.org)
   --disallow-self-signed-certificate   Validate the server certificate's CA chain
   --endpoint   * Object storage endpoint. Required unless --type specifies
                              AMAZON_S3, AZURE, or
                              GOOGLE_CLOUD
   --endpoint-clear   Reset the endpoint to its default
   --help   Display this help and exit
 * --id   The ID of the object storage to update. Required unless "--name" or "--
                              internal-id" is specified
 * --internal-id   The internal ID of the object storage to update. Required unless "--
                              id" or "--name" is specified

* --name	The name of the object storage to update. Required unless "--id" or "--internal-id" is specified
--proxy-clear	Remove the proxy definitions, i.e. don't use proxy for this Object storage
--proxy-host	Proxy host name/IP
--proxy-password	Proxy password
--proxy-port	Proxy port
--proxy-username	Proxy username
--secret-key	Object storage secret key
--type	Object storage type. Possible values: AMAZON_S3 | ACTIVE_SCALE_S3 | IBM_S3 | CLOUDIAN_S3 | ECS_S3 | GENERIC_S3 | GOOGLE_S3 | SCALITY_S3 | STORAGE_GRID_S3 | AZURE | GOOGLE_CLOUD | HCP_S3.

object-volume-add

Usage: object-volume-add [options]
Add an object storage volume to the product

Options:
--access-key	Access key, if not provided, the object storage credentials will be used
--availability	Volume availability capability, specified as the number of nines (number between 1 and 11)
--durability	Volume durability capability, specified as the number of nines (number between 1 and 11)
--help	Display this help and exit
* --logical-volume-id	object logical volume ID. Required unless "--logical-volume-name" is specified
* --logical-volume-name	object logical volume. Required unless "--logical-volume-id" is specified
--name	The object storage volume name. If not provided, a default name will be assigned
* --node-id	The node ID. Required unless "--node-name" is specified
* --node-name	The node name. Required unless "--node-id" is specified
--online-delay	Max time (in nano-seconds) for the file to be restored
--secret-key	Secret key, if not provided, the object storage credentials will be used
--shared	Allows an object storage volume already reserved by another Anvil to be added

object-volume-decommission

Usage: object-volume-decommission [options]
Start the object storage volume decommission process

Options:
--help	Display this help and exit
* --id	Object Storage Volume ID. Required unless "--name" or "--internal-id" is specified
* --internal-id	Object Storage Volume internal ID. Required unless "--id" or "--name" is specified

* --name   Object Storage Volume name. Required unless "--id" or "--internal-id" is
                  specified
  --replace-with List of locations to replace the decommissioned volume. Example:
                  node:<name>,volume-group:<name>,volume:<name>,object-
                  volume:<name>

object-volume-decommission-cancel

Usage: object-volume-decommission-cancel [options]
Cancel the object storage volume decommission process

  Options:
    --help   Display this help and exit
  * --id   Object Storage Volume identifier. Required unless "--name" or "--internal-id" is
                    specified
  * --internal-id   Object Storage Volume internal ID. Required unless "--id" or "--name" is specified
  * --name   Object Storage Volume name. Required unless "--id" or "--internal-id" is specified

object-volume-fail

Usage: object-volume-fail [options]
Fail the object storage volume

  Options:
    --help   Display this help and exit
  * --id   The ID of the object storage volume to fail. Required unless "--name" or "--internal-
                    id" is specified
  * --internal-id   The internal ID of the object storage volume to fail. Required unless "--id" or "--
                    name" is specified
  * --name   The name of the object storage volume to fail. Required unless "--id" or "--
                    internal-id" is specified

object-volume-list

Usage: object-volume-list [options]
List object storage volumes

  Options:
    --full   Print extra information
    --help   Display this help and exit
    --id   The ID of the volume to list
    --internal-id   The internal ID of the volume to list
    --name   The name of the volume to list

object-volume-remove

Usage: object-volume-remove [options]
Remove an object storage volume from the system. The object storage volume must be in the
DECOMMISSIONED or FAILED state

  Options:

--help   Display this help and exit
* --id   The ID of the object storage volume to remove. Required unless "--name" or "--internal-id" is specified
* --internal-id   The internal ID of the object storage volume to remove. Required unless "--id" or "--name" is specified
* --name   The name of the object storage volume to remove. Required unless "--id" or "--internal-id" is specified

object-volume-set-available

Usage: object-volume-set-available [options]
Mark an unavailable object storage volume as available

 Options:
  --help   Display this help and exit
* --id   The ID of the object storage volume to mark
                  available. Required unless "--name" or "--internal-id" is specified
* --internal-id   The internal ID of the object storage volume to mark available. Required unless "--id" or "--name" is specified
* --name   The name of the object storage volume to mark available. Required unless "--id" or "--internal-id" is specified

object-volume-set-unavailable

Usage: object-volume-set-unavailable [options]
Mark an object storage volume as unavailable

 Options:
  --help   Display this help and exit
* --id   The ID of the object storage volume to mark unavailable. Required unless "--name" or "--internal-id" is specified
* --internal-id   The internal ID of the object storage volume to mark unavailable. Required unless "--id" or "--name" is specified
* --name   The name of the object storage volume to mark unavailable. Required unless "--id" or "--internal-id" is specified

object-volume-update

Usage: object-volume-update [options]
Update object storage volume

 Options:
* --access-key   Access key
  --availability   Volume availability capability, specified as the number of nines (number between 1 and 11)
  --durability   Volume durability capability, specified as the number of nines (number between 1 and 11)
  --help   Display this help and exit

* --id   object storage volume ID. Required unless "--name" or "--internal-id" is specified
* --internal-id   object storage volume internal ID. Required unless "--id" or "--name" is specified
* --name   object storage volume name. Required unless "--id" or "--internal-id" is specified
  --new-name   object storage new name
  --online-delay   Max time (in nano-seconds) for the file to be restored
* --secret-key   Secret key

volume-add

Usage: volume-add [options]
Add a storage volume to the product
 Options:
  --access-type   The access type of the storage volume Possible values: READ_ONLY |
                           READ_WRITE.
  --assimilation   Assimilate data from the volume
  --async   Causes the command to be executed asynchronously. A reference task
                           identifier will be returned
  --availability   The storage volume availability capability, specified as the number of nines
                           (number between 1 and 11)
  --cost   Estimated cost of the storage volume
  --destination-path   The path within the share to assimilate to
  --durability   The storage volume durability capability, specified as the number of nines
                           (number between 1 and 11)
  --force   Delete a previous installation's data from the volume
  --help   Display this help and exit
  --log-assimilation   Causes assimilation to log data into <share/mount/path>/assimilation-
                           logs-<date>/
* --logical-volume-id   The logical volume ID. Required unless "--logical-volume-name" is
                           specified
* --logical-volume-name   The logical volume name. Required unless "--logical-volume-id" is
                           specified
  --name   The storage volume name. If not provided, default name will be assigned
* --node-id   The node ID. Required unless "--node-name" is specified
* --node-name   The node name. Required unless "--node-id" is specified
  --path   The path within the share to assimilate to
  --restart-assimilation   Forces assimilation to restart (where an assimilation of the same data
                           into the same share already exists)
  --share-id   The share ID to assimilate data to
  --share-name   The share name to assimilate data to
  --smb-default-group   An Active Directory group to use for SID mapping if a group SID does
                           not have a mapping (because the group has been
                           deleted). Valid forms are <name>@<domain> and
                           <domain>\<name>
  --smb-default-user   An Active Directory user to use for SID mapping if a user SID does not
                           have a mapping (because the account has been
                           deleted). Valid forms are <name>@<domain> and
                           <domain>\<name>
  --smb-drop-unmapped-ace   Specifies that when assimilating SMB attributes, Windows access
                           control entries with unmapped users or groups will be
                           dropped.
  --smb-password   Password for SMB username used to assimilate SMB data
  --smb-server   Fully-qualified domain name of the SMB server from which data is being
                           assimilated

--smb-share	SMB share name from which data is being assimilated
--smb-username	SMB username used to assimilate SMB data. Valid forms are <name>@<domain> and <domain>\<name>
--source-path	The path within the volume to assimilate from
--utilization-threshold	The storage volume utilization threshold

volume-assimilation

Usage: volume-assimilation [options]
Assimilate an existing storage volume

Options:
--async	Causes the command to be executed asynchronously. A reference task identifier will be returned
--destination-path	The path within the share to assimilate to
--help	Display this help and exit
* --id	The volume ID. Required unless "--name" or "--internal-id" is specified
* --internal-id	The internal ID of the volume. Required unless "--id" or "--name" is specified
* --name	The volume name. Required unless "--id" or "--internal-id" is specified
--path	The path within the share to assimilate to
* --share-id	The share ID to assimilate data to. Required unless "--share-name" is specified
* --share-name	The share name to assimilate data to. Required unless "--share-id" is specified
--smb-default-group	An Active Directory group to use for SID mapping if a group SID does not have a mapping (because the group has been deleted). Valid forms are <name>@<domain> and <domain>\<name>
--smb-default-user	An Active Directory user to use for SID mapping if a user SID does not have a mapping (because the account has been deleted). Valid forms are <name>@<domain> and <domain>\<name>
--smb-drop-unmapped-ace	Specifies that when assimilating SMB attributes, Windows access control entries with unmapped users or groups will be dropped.
--smb-password	Password for SMB username used to assimilate SMB data
--smb-server	Fully-qualified domain name of the SMB server from which data is being assimilated
--smb-share	SMB share name from which data is being assimilated
--smb-username	SMB username used to assimilate SMB data. Valid forms are <name>@<domain> and <domain>\<name>
--source-path	The path within the volume to assimilate from

volume-decommission

Usage: volume-decommission [options]
Start the storage volume decommission process

Options:
--help	Display this help and exit
* --id	Storage Volume identifier. Required unless "--name" or "--internal-id" is specified
* --internal-id	Storage Volume internal identifier. Required unless "--id" or "--name" is specified
* --name	Storage Volume name. Required unless "--id" or "--internal-id" is specified

--replace-with   List of locations to replace the decommissioned volume. Example:
node:<name>,volume-group:<name>,volume:<name>,object-
volume:<name>

volume-decommission-cancel

Usage: volume-decommission-cancel [options]
Cancel the storage volume decommission process

  Options:
    --help   Display this help and exit
  * --id   Storage Volume identifier. Required unless "--name" or "--internal-id" is specified
  * --internal-id   Storage Volume internal identifier. Required unless "--id" or "--name" is specified
  * --name   Storage Volume name. Required unless "--id" or "--internal-id" is specified

volume-fail

Usage: volume-fail [options]
Fail the storage volume

  Options:
    --help   Display this help and exit
  * --id   The ID of the storage volume to fail. Required unless "--name" or "--internal-id" is
                    specified
  * --internal-id   The internal ID of the storage volume to fail. Required unless "--id" or "--name" is
                    specified
  * --name   The name of the storage volume to fail. Required unless "--id" or "--internal-id" is
                    specified

volume-group-create

Usage: volume-group-create [options]
Create a new volume group

  Options:
    --description   The volume group's description
    --expressions   The volume group expression(s). Expressions are separated by '&'
    --help   Display this help and exit
  * --name   The volume group name

volume-group-delete

Usage: volume-group-delete [options]
Delete a volume group

  Options:
    --help   Display this help and exit
  * --id   The ID of the volume group to delete. Required unless "--name" or "--internal-id" is
              specified
  * --internal-id   The internal ID of the volume group to delete. Required unless "--id" or "--name"
              is specified

* --name   The name of the volume group to delete. Required unless "--id" or "--internal-id" is specified

volume-group-list

Usage: volume-group-list [options]
Display a detailed list of all volume groups available in the system

  Options:
    --full   Print extra information
    --help   Display this help and exit
    --id   The ID of the volume group to list
    --internal-id   The internal ID of the volume group to list
    --name   The name of the volume group to list

volume-group-update

Usage: volume-group-update [options]
Update a volume group

  Options:
    --description   The volume group's description
    --description-clear   ""
    --expressions   The volume group expression(s). Expressions are separated by '&'
    --expressions-clear   ""
    --help   Display this help and exit
  * --id   The ID of the volume group to update. Required unless "--name" or "--internal-id" is specified
  * --internal-id   The internal ID of the volume group to update. Required unless "--id" or "--name" is specified
  * --name   The name of the volume group to update. Required unless "--id" or "--internal-id" is specified
    --new-name   The volume group updated name

volume-list

Usage: volume-list [options]
Display a detailed list of all storage volumes available in the system. Two types of lists can be displayed: a detailed list and a Summary list (default)

  Options:
    --full   Print extra information
    --help   Display this help and exit
    --id   The ID of the storage volume to list
    --internal-id   The internal ID of the volume to list
    --name   The name of the storage volume to list

volume-remove

Usage: volume-remove [options]

Remove a storage volume from the system. The storage volume must be in the DECOMMISSIONED or FAILED state

Options:
--help   Display this help and exit
* --id   The ID of the storage volume to remove. Required unless "--name" or "--internal-id" is specified
* --internal-id   The internal ID of the storage volume to remove. Required unless "--id" or "--name" is specified
* --name   The name of the storage volume to remove. Required unless "--id" or "--internal-id" is specified

volume-update

Usage: volume-update [options]
Update storage volume attributes, including the volume performance and availability attributes

Options:
--availability   The storage volume availability capability, specified as the number of nines (number between 1 and 11)
--clone   The storage volume clone capability
--durability   The storage volume durability capability, specified as the number of nines (number between 1 and 11)
--encryption   The storage volume encryption capability
--help   Display this help and exit
* --id   The ID of the storage volume to update. Required unless "--name" or "--internal-id" is specified
* --internal-id   The internal ID of the storage volume to update. Required unless "--id" or "--name" is specified
* --name   The name of the storage volume to update. Required unless "--id" or "--internal-id" is specified
--new-name   The storage volume new name
--read-bandwidth   The storage volume read bandwidth (in kb/sec)
--read-iops   The storage volume read number of IOPs
--read-latency   The storage volume read latency (in microsecs)
--snapshot   The storage volume snapshot capability
--tolerable-read-latency   The storage volume tolerable read latency (in nanoseconds)
--tolerable-write-latency   The storage volume tolerable write latency (in nanoseconds)
--utilization-threshold   The storage volume utilization threshold
--write-bandwidth   The storage volume write bandwidth (in kb/sec)
--write-iops   The storage volume write number of IOPs
--write-latency   The storage volume write latency (in microsecs)

Snapshots and Cloning

file-snapshot-create

Usage: file-snapshot-create [options]
Create file snapshot
Example: file-snapshot-create --filename /test/VM2/*.vmdk --now

  Options:
  * --filename   Source file path. The filename in the path may include wild-card characters (for
                             example, /share/dir/file*.txt)
    --help   Display this help and exit
    --now   Create immediate snapshot of the file
    --retention-name   The name of the retention policy
    --schedule-name   The name of the schedule policy

file-snapshot-delete

Usage: file-snapshot-delete [options]
Delete file snapshots

  Options:
    --all   Deletes all existing snapshots
  * --filename   Source file path. The filename in the path may include wild-card characters (for
                             example: /share/dir/file*.txt)
    --help   Display this help and exit
    --time   Date-time expression in format yyyy-MM-ddThh-mm-ss. The expression may contain
                             wild-card characters (for example: 2000-01-30*)

file-snapshot-list

Usage: file-snapshot-list [options]
List file snapshots

  Options:
  * --filename   Source file path. The filename in the path may include wild-card characters (for
                             example: /share/dir/file*.txt)
    --help   Display this help and exit

file-snapshot-restore

Usage: file-snapshot-restore [options]
Restore files from snapshots

  Options:
  * --filename   Source file path. The filename in the path may include wild-card characters (for
                             example: /share/dir/file*.txt)
    --help   Display this help and exit
  * --time   Date-time expression in format yyyy-MM-ddThh-mm-ss. The expression may contain
                             wild-card characters (for example: 2000-01-30*)

file-snapshot-schedule-list

Usage: file-snapshot-schedule-list [options]
List scheduled file snapshots

  Options:
    --filename   Source file path. The filename in the path may include wild-card characters (for
                    example: /share/dir/file*.txt)
    --help   Display this help and exit
    --id   The ID of the file snapshot schedule to list

file-snapshot-update

Usage: file-snapshot-update [options]
Update file snapshot schedule

  Options:
  * --filename   Source file path. The filename in the path may include wild-card characters
                    (for example: /share/dir/file*.txt)
    --help   Display this help and exit
    --remove-retention   Remove the retention policy from file snapshots
    --remove-schedule   Remove both schedule and retention from file snapshots
    --retention-name   The name of the retention policy
    --schedule-name   The name of the schedule policy

snapshot-retention-create

Usage: snapshot-retention-create [options]
Create a snapshot retention policy

  Options:
    --help   Display this help and exit
  * --name   The name of the snapshot retention policy
    --number-of-copies   The number of copies the policy should create
    --retention-time   The time interval to retain snapshots, from the time of the last snapshot, in
                    the format: dd:HH:mm

snapshot-retention-delete

Usage: snapshot-retention-delete [options]
Delete snapshot retention policy

  Options:
    --help   Display this help and exit
  * --id   The ID of the snapshot policy to delete. Required unless "--name" is specified
  * --name   The name of the snapshot policy to delete. Required unless "--id" is specified

snapshot-retention-list

Usage: snapshot-retention-list [options]
List snapshot retention policies

Options:
    --full   Print extra information
    --help   Display this help and exit
    --id   The ID of the snapshot retention policy to list
    --name   The name of the snapshot retention policy to list

snapshot-retention-update

Usage: snapshot-retention-update [options]
Update snapshot retention policy

Options:
    --help   Display this help and exit
  * --id   The name of the snapshot retention policy to list. Required unless "--name" is
                          specified
  * --name   The ID of the snapshot retention policy to list. Required unless "--id" is
                          specified
    --number-of-copies   The number of copies the policy should create
    --retention-time   The time interval to retain snapshots, from the time of the last snapshot, in
                          the format: dd:HH:mm

Networking

floating-ip-add

Usage: floating-ip-add [options]
Add new floating IP address (cluster or portal)

  Options:
    --cluster   Add cluster floating IP address
    --help   Display this help and exit
  * --ip   Floating IP address to add
    --portal   Add portal floating IP address

floating-ip-remove

Usage: floating-ip-remove [options]
Remove existing floating IP address (cluster or portal)

  Options:
    --cluster   Remove cluster floating IP address
    --help   Display this help and exit
  * --ip   Floating IP address to remove
    --portal   Remove portal floating IP address

gateway-update

Usage: gateway-update [options]
Update gateway configuration

  Options:
    --help   Display this help and exit
    --ipv4   Set the gateway IPv4 address
    --ipv4-clear Clear the gateway IPv4 address
    --ipv6   Set the gateway IPv6 address
    --ipv6-clear Clear the gateway IPv6 address
    --node-name   The node name

gateway-view

Usage: gateway-view [options]
List gateway configuration

  Options:
    --help   Display this help and exit
    --node-name The node name

interface-create

Usage: interface-create [options]
Create virtual network interface

Options:
    --help   Display this help and exit
    --interface-id   The physical network interface ID
    --interface-name   The physical network interface name
    --ip   Set the network interface IP address
    --mtu   Set the network interface mtu
    --node-name   The node name
    --roles   Set the network interface role(s) Possible values: mgmt | data | ha | portal.
  * --vlan-id   Set the network interface vlan ID

interface-delete

Usage: interface-delete [options]
Delete virtual network interface

  Options:
    --help   Display this help and exit
    --interface-id   The virtual network interface ID
    --interface-name   The virtual network interface name
    --node-name   The node name

interface-list

Usage: interface-list [options]
List network interfaces

  Options:
    --full   Print extra information
    --help   Display this help and exit
    --interface-id   The ID of the network interface to list
    --node-name   The node name

interface-update

Usage: interface-update [options]
Update physical/virtual network interface

  Options:
    --help   Display this help and exit
    --interface-id   The network interface ID
    --interface-name   The network interface name
    --ip   Set the network interface IP address
    --ip-clear   Remove the network interface IP address
    --mtu   Set the network interface mtu
    --node-name   The node name
    --roles   Set the network interface role(s) Possible values: mgmt | data | ha | portal.
    --roles-clear   Clear the network interface role(s)
    --vlan-id   Set the network interface vlan ID (may change the interface name)

static-route-add

Usage: static-route-add [options]
Add a new static route

  Options:
  * --destination   The static route destination IP address (CIDR notation optional)
    --help   Display this help and exit
  * --next-hop   The IP address of the next hop

static-route-delete

Usage: static-route-delete [options]
Delete a static route

  Options:
  * --destination   The destination IP address of the route to be deleted
    --help   Display this help and exit
  * --next-hop   The next hop IP address of the route to be deleted

static-route-list

Usage: static-route-list [options]
List static routes

  Options:
    --help   Display this help and exit

subnet-gateway-add

Usage: subnet-gateway-add [options]
Add a new subnet gateway

  Options:
  * --gateway   The IP address of the subnet gateway
    --help   Display this help and exit
  * --subnet   The subnet IP address in CIDR notation

subnet-gateway-delete

Usage: subnet-gateway-delete [options]
Delete a subnet gateway

  Options:
    --help   Display this help and exit
  * --subnet   The subnet IP address in CIDR notation

subnet-gateway-list

Usage: subnet-gateway-list [options]
List subnet gateways

Options:
  --help   Display this help and exit

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local-site-update

Usage: local-site-update [options]
Update the local site

  Options:
    --help   Display this help and exit
    --name   The new name of the local site

local-site-view

Usage: local-site-view [options]
View the local site

  Options:
    --help   Display this help and exit

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