megacli-python Documentation

Release 0.0.10

Matteo Cerutti

Jun 09, 2020

Contents:

Python library for MegaCli

This is a simple Python library that wraps around MegaCli to provide an OO interface.

class megacli.**MegaCLI**(*cli_path='/opt/MegaRAID/MegaCli/MegaCli64'*)

adapters()
Get MegaRAID adapters

Returns a list of all installed MegaRAID adapters

Return type list

bbu()
Get battery backup units

Returns a list of all installed BBUs

Return type list

check_init(*drive*, *adapter*)
Returns initialization status of a logical drive

Parameters

- **drive** (*string*) – specifies the logical drive to check
- **adapter** (*int*) – specifies the drive's controller
- **full** (*bool*) – specifies whether to do a full initialize

Returns MegaCLI command output

Return type string

clear_foreign(*adapter*)
Clear foreign configs from an adapter

Parameters **adapter** (*int*) – specifies the foreign config's controller

Returns MegaCLI command output

Return type string

create_ld(*raid_level*, *devices*, *adapter*, *write_policy=None*, *read_policy=None*, *cache_policy=None*, *cached_bad_bbu=None*, *size=None*, *stripe_size=None*, *hot_spares=[]*, *after_ld=None*, *force=False*)
Create a new logical drive

Parameters

- **raid_level** (*int*) – specifies the RAID level. Valid arguments: 0, 1, 5 or 6.
- **devices** (*list*) – specifies the drive enclosures and slot numbers to construct the drive group. E.g.: ['E0:S0', 'E1:S1', ...]
- **write_policy** (*string*) – specifies the device write policy. Valid arguments: WT (write through) or WB (write back)
- **read_policy** (*string*) – specifies the device read policy. Valid arguments: NORA (no read ahead), RA (read ahead), ADRA (adaptive read ahead).
- **cache_policy** (*string*) – specifies the device cache policy. Valid arguments: Direct, Cached.
- **cached_bad_bbu** (*bool*) – specifies whether to use write cache when BBU is bad.

- **size** (*int*) – specifies the capacity for the virtual drive in MB.
- **stripe_size** (*int*) – specifies the stripe size. Valid arguments: 8, 16, 32, 64, 128, 256, 512, or 1024.
- **hot_spares** (*list*) – specifies the device hot spares. E.g.: ['E5:S5', ..]
- **after_ld** (*string*) – specifies which free slot should be used.
- **force** (*bool*) – whether to force or not the creation of the logical drive

Returns MegaCLI command output

Return type string

enclosures()
Get enclosures

Returns a list of all available enclosures

Return type list

execute(*cmd*)
Execute a MegaCLI command

Parameters **cmd** (*string*) – command line arguments for MegaCLI

Returns MegaCLI command output

Return type int

logicaldrives()
Get logical drives

Returns a list of all configured logical drives

Return type list

make_pd_good(*drive*, *adapter*)
Set a drive from 'bad' to 'unconfigured, good'

Parameters

- **drive** (*string*) – specifies the enclosure:drive to set to 'good'
- **adapter** (*int*) – specifies the drive's controller

Returns MegaCLI command output

Return type string

physicaldrives()
Get physical drives

Returns a list of all installed physical drives

Return type list

remove_ld(*drive*, *adapter*, *force=False*)
Delete a logical drive

Parameters

- **drive** (*int*) – specifies the drive to remove
- **adapter** (*int*) – specifies the drive's controller
- **force** (*bool*) – specifies whether to force or not the removal of the drive

Returns MegaCLI command output

Return type string

start_init(*drive*, *adapter*, *full=False*)
Initializes a logical drive

Parameters

- **drive** (*string*) – specifies the logical drive to initialize
- **adapter** (*int*) – specifies the drive's controller
- **full** (*bool*) – specifies whether to do a full initialize

Returns MegaCLI command output

Return type string

stop_init(*drive*, *adapter*)
Stops initialization on a logical drive

Parameters

- **drive** (*string*) – specifies the logical drive to stop initializion
- **adapter** (*int*) – specifies the drive's controller
- **full** (*bool*) – specifies whether to do a full initialize

Returns MegaCLI command output

Return type string

CHAPTER 1

Indices and tables

- genindex
- modindex
- search

Python Module Index

m

Index