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Installation

- From the Thomas-Krenn download area:
 - storcli Download
- For Ubuntu from the Thomas-Krenn-Repo
 - Install storcli under Ubuntu

Utilization

Information for general use:

/cx bzw. /vx stands for the Controller/Virtual Drive Number.

I /ex bzw. /sx stands for the Enclosure/Slot ID.

Additional information is also available in the LSI StorCLI manual. $^{[1]}$

Firmware Update

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i .	
1	sudo storcli /cx download file=/path/to/firmware.rom
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i .	
ь.	

Information on the Controller and Configuration

L sude starsli /sv shou all	
i SUUU SLUTELE /CX SHOW ALL	i.
	i
	:

Activation of Features (e.g. CacheCade, FastPath,...)

cude starsli /ov set ass kov-AAAAAAABBBBBBBBBCCCCCCCC	
SUUD STOTTET /CX SET aso Rey=AAAAAAAADDDDDDDCCCCCCC	
	i

Information on the existing hard drives and their status (IDs,...)

cude starsli (cv. (coll (coll show (coll))	
Sudo Storett /cx /eatt /satt show (att)	

Information on the existing virtual drives and their status

sudo storcli /cx /vall show (all)	
Sade Sterett / Sate Shen (att)	

View current status of all rebuilds

sudo storcli /cx /eall /sall show rebuild

Creating a Virtual Drive

sudo	orcli /cx add vd type=[RAID0(r0) RAID1(r1)] drives=[EnclosureID:SlotID :SlotID-SlotID :SlotII),SlotID]

Example:

sudo storcli /cx add vd type=r1 drives=252:0-2

Initializing a VD

F -		٦.
	cude storsli /cv/vv stort init (force)	
h		

Progress can be monitored using the following command:

; SUDO STORCII /CX/VX SNOW INIT	
<u>.</u>	

Creating a CacheCade device

sudo storcli	/cx add vd cc type=r[0,1,10]	drives=[EnclosureID:SlotID :SlotID-SlotID :SlotID,SlotID]	WT WB (assignvds=0,1,2)	

Example:

sudo storcli /c0 add vd cc type=r1 drives=252:2-3 WB

CacheCade activation/deactivation

sudo storcli /cx/[vx vall] set ssdCaching=[on off]	
Example:	
sudo storcli /c0/v1 set ssdCaching=on	

Removing a CacheCade device

	i
sudo storcli /cx/vx del cc	

Removing a VD

sudo storcli /cx/vx del (force)	i
	1
	i

Incorporating an improperly removed device

If an improperly removed device is reconnected to the RAID controller it will be recognized as UBAD (Unconfigured Bad).

sudo storcli /c0 /eall /sall show	
Controller = 0 Status = Success Description = Show Drive Information Succeeded.	
Drive Information :	
EID:Slt DID State DG Size Intf Med SED PI SeSz Model	 Sp
252:0 7 Onln 0 465.25 GB SATA HDD N 512B WDC WD5003ABYX-01WERA1 252:1 6 Onln 1 465.25 GB SATA HDD N N 512B WDC WD5003ABYX-01WERA1 252:2 5 UGood - 465.25 GB SATA HDD N N 512B WDC WD5003ABYX-01WERA1 252:3 4 UBad - 223.062 GB SATA SSD N 512B INTEL SSDSC2CW240A3	U U U U U
EID-Enclosure Device ID Slt-Slot No. DID-Device ID DG-DriveGroup DHS-Dedicated Hot Spare UGood-Unconfigured Good GHS-Global Hotspare UBad-Unconfigured Bad Onln-Online Offln-Offline Intf-Interface Med-Media Type SED-Self Encryptive Drive PI-Protection Info SeSz-Sector Size Sp-Spun U-Up D-Down T-Transition F-Foreign UGUnsp-Unsupported	
his status must be changed to UGOOD.	
sudo storcli /cx /ex /sx set good	
Controller = 0 Status = Success Description = Show Drive Information Succeeded.	
Drive Information : ====================================	
EID:Slt DID State DG Size Intf Med SED PI SeSz Model	 Sp
252:0 7 0nln 0 465.25 GB SATA HDD N 512B WDC WD5003ABYX-01WERA1 252:1 6 0nln 1 465.25 GB SATA HDD N N 512B WDC WD5003ABYX-01WERA1 252:2 5 UGood - 465.25 GB SATA HDD N 512B WDC WD5003ABYX-01WERA1 252:3 4 UGood F 223.062 GB SATA SD N 512B INTEL SDSC2CW240A3	 U U U U

EID-Enclosure Device ID/Slt-Slot No./DID-Device ID/DG-DriveGroup DHS-Dedicated Hot Spare|UGood-Unconfigured Good|GHS-Global Hotspare UBad-Unconfigured Bad|Onln-Online|Offln-Offline|Intf-Interface Med-Media Type|SED-Self Encryptive Drive|PI-Protection Info SeSz-Sector Size|Sp-Spun|U-Up|D-Down|T-Transition|F-Foreign UGUnsp-Unsupported

Now the device is foreign in the pool

sudo storcli /cx /fall show	
Controller = 0 Status = Success Description = Operation on foreign configuration Succeeded	
FOREIGN CONFIGURATION : ====================================	
DG EID:Slot Type State Size NoVDs	
0 - Cac0 Frgn 223.062 GB 1	
NoVDs - Number of VDs in disk group DG - Diskgroup Total foreign drive groups = 1	
Now it can be included in the configuration.	

sudo storcli /cx /fall import	

If the device was part of a RAID a rebuild is performed automatically (see the state: Rbld in the overview). The following command progress can be monitored:

sudo storcli /cx /ex /sx show rebuild

References

1. <u>LSI StorCLI Manual (http://www.lsi.com/downloads/Public/MegaRAID%20Common%20Files/StorCLI_RefMan_revf.pdf)</u> (www.lsi.com)

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