

يلاعلا صرقلا عاداً مادختسا لوح TechNote

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عمدقمل

إلا ةجال او 100% لإ لصي يذلا صرقلا عاداً مادختسالا كتبرجت دن عارج دن تسمل اذه فصلي ليغشتب بلاطم تناف، زاهجال يف ةلكشم وأ قيبطلاتلا يف ةلكشم تناك إذا امم ققحتلا فقووملا ليححتل رم او ةدع.

ةيساسألا تابلطاتمل

تابلطاتمل

دنتسمل اذهل ةصاخ تابلطاتم دجوت ال

عمدختسمل تانوكمل

ةيلاتلا ةيداملا تانوكمل او جماربلا تارادصا لإ دن تسمل اذه يف ةدراول تامولعمل دن تست

- Cisco ن م (UCS) ةدومل ةبسوحوال ماظن ةلسلس
- Hewlett-Packard (HP) مداوخ

ةصاخ ةيلمعم ةئيب يف ةدومل ةزهجال ن م دن تسمل اذه يف ةدراول تامولعمل عاشنإ مت تناك إذا. (يضارتفا) حوسم نيوكتب دن تسمل اذه يف عمدختسمل ةزهجال عيمج تادب رمأ يال لم تحملا ريثاتلل كمهف ن م دكأتف، ةرشابم كتكبش

يلاعلا صرقلا عاداً مادختسا: ةلكشم

100% ةبسنب صرقلا عاداً مادختسا ةبرجت كنكمي. رقتسم ريغ وهو عطبب ماظنلا لمعي

اهجالص او عاخال فاشكتسا

صحفو ةرادالاب ةصاخلا بيولا ةهجاو لإ لوصول يف ةلهسل او عي رسل ةقيرطلا لثمت

نيزختلا ةزهجأ ةلاح

دعب نع ةرادإل Cisco نم (CIMC) ةلماكتملا ةرادإل ي ف مكحتلا ةدحو لىل لوصول مدع دنع كنكمي HP، مداوخ لىل (ILO) جمدملا ءاوضأل جرخم وأ (UCS) ةدحوملا ةبسوحلا ماظن ةلسلسل ةقيرطلا هذه مادختساب (صارقال) صارقال او RAID لوح تامولعم لىل لوصول

Cisco نم (UCS) ةدحوملا ةبسوحلا ماظن مداوخل

"يلك اغيم" يمست ةمزح نايب دتاع يزوت مدختست

ةادأل هذه لوح تامولعمل نم ديزملا - <http://hwraid.le-vert.net/wiki/LSIMegaRAIDSAS>

رملأ مادختسا ةيفيك لوح ةلثمأ - <http://www.mostlychris.com/blog/2009/07/29/check-raid-status-with-megacli/>

اهتثبتتو نايب دةمزح [ليزنت](#) نكمي

mega_8.07.14-1_amd64.deb مادختساب هرابتخإ متي: **ةظحالم**

رمأل ليغشتب مق، ةمدختسملا ةراضلا جماربلا ي ف مكحتلا تادحو نم ققحتلل **sudo lspci -vv | GREP -i RAID**

لاثملا لىبس لىل

RAID 82:00.0: LSI Logic / Symbios Logic **MegaRAID SAS 2208** [Thunderbolt] (05 ةعجارملا)

microAraid_sas: مادختسالال دي ق Kernel ليغشت جم انرب

ي ف رملأ اذه لوح تامولعمل نم ديزم لىل روثل نكمي

<http://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-c-series-rack-servers/115020-intro-lsi-megacli-00.html>

ليغشت رمأ، رذجك هليغشت متي: **sudo /usr/bin/megaCLI**

Cisco نم (UCS) ةدحوملا ةبسوحلا ماظن ةلسلس

رمأل ليغشتب مق، RAID ي ف مكحتلا ةدحو لىل صافات نع ثحبا 1. ةوطخل **lspci -vv | GREP -i RAID**

زاهج نع ةرابع RAID ي ف مكحتلا ةدحو

```
$ lspci -vv | grep -i RAID
82:00.0 RAID bus controller: LSI Logic / Symbios Logic MegaRAID SAS 2208 [Thunderbolt] (rev 05)
    Kernel driver in use: megaraid_sas
```

```
$ sudo lspci -vv | grep -A60 -i RAID
82:00.0 RAID bus controller: LSI Logic / Symbios Logic MegaRAID SAS 2208 [Thunderbolt] (rev 05)
```

```

Subsystem: LSI Logic / Symbios Logic Device 9271
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr+ Stepping- SERR+ FastB2B-
DisINTx+
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-
INTx-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin A routed to IRQ 56
Region 0: I/O ports at f000 [size=256]
Region 1: Memory at fbe60000 (64-bit, non-prefetchable) [size=16K]
Region 3: Memory at fbe00000 (64-bit, non-prefetchable) [size=256K]
Expansion ROM at fbe40000 [disabled] [size=128K]
Capabilities: [50] Power Management version 3
Flags: PMEClk- DSI- D1+ D2+ AuxCurrent=0mA PME(D0-,D1-,D2-,D3hot-,D3cold-)
Status: D0 NoSoftRst+ PME-Enable- DSel=0 DScale=0 PME-
Capabilities: [68] Express (v2) Endpoint, MSI 00
DevCap: MaxPayload 4096 bytes, PhantFunc 0, Latency L0s <64ns, L1 <1us
ExtTag+ AttnBtn- AttnInd- PwrInd- RBE+ FLReset+
DevCtl: Report errors: Correctable- Non-Fatal+ Fatal+ Unsupported-
RlxdOrd- ExtTag- PhantFunc- AuxPwr- NoSnoop+ FLReset-
MaxPayload 256 bytes, MaxReadReq 512 bytes
DevSta: CorrErr+ UncorrErr- FatalErr- UnsuppReq+ AuxPwr- TransPend-
LnkCap: Port #0, Speed 8GT/s, Width x8, ASPM L0s, Latency L0 <64ns, L1 <1us
ClockPM- Surprise- LLActRep- BwNot-
LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- Retrain- CommClk+
ExtSynch- ClockPM- AutWidDis- BWInt- AutBWInt-
LnkSta: Speed 8GT/s, Width x8, TrErr- Train- SlotClk+ DLActive- BWMgmt- ABWMgmt-
DevCap2: Completion Timeout: Range BC, TimeoutDis+
DevCtl2: Completion Timeout: 65ms to 210ms, TimeoutDis-
LnkCtl2: Target Link Speed: 8GT/s, EnterCompliance- SpeedDis-, Selectable De-emphasis: -6dB
Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-
Compliance De-emphasis: -6dB
LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete+, EqualizationPhase1+
EqualizationPhase2+, EqualizationPhase3+, LinkEqualizationRequest+
Capabilities: [d0] Vital Product Data
Unknown small resource type 00, will not decode more.
Capabilities: [a8] MSI: Enable- Count=1/1 Maskable- 64bit+
Address: 0000000000000000 Data&colon; 0000
Capabilities: [c0] MSI-X: Enable+ Count=16 Masked-
Vector table: BAR=1 offset=00002000
PBA: BAR=1 offset=00003000
Capabilities: [100 v2] Advanced Error Reporting
UESta: DLP- SDES- TLP- FCP- CmplttO- CmplttAbrt- UnxCmpltt- RxOF- MalftTLP- ECRC- UnsupReq-
ACSViol-
UEMsk: DLP- SDES- TLP- FCP- CmplttO- CmplttAbrt- UnxCmpltt- RxOF- MalftTLP- ECRC- UnsupReq+
ACSViol-
UESvrt: DLP+ SDES+ TLP- FCP+ CmplttO- CmplttAbrt- UnxCmpltt- RxOF+ MalftTLP+ ECRC- UnsupReq-
ACSViol-
CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+
CEMsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+
AERCap: First Error Pointer: 00, GenCap- CGenEn- ChkCap- ChkEn-
Capabilities: [1e0 v1] #19
Capabilities: [1c0 v1] Power Budgeting <?>
Capabilities: [190 v1] #16
Capabilities: [148 v1] Alternative Routing-ID Interpretation (ARI)
ARICap: MFVC- ACS-, Next Function: 0
ARICtl: MFVC- ACS-, Function Group: 0
Kernel driver in use: megaraid_sas

```

دحووملا ةبسوحلا ماظن ةلسلسل يضا رتفالا او يدامل صارقألا كرحم نم ققحتلا 2. ةوطخل
(UCS)، **sudo megaCLI -ldinfo -lALL -aALL**.

```
$ sudo megacli -ldinfo -lALL -aALL
```

Adapter 0 -- Virtual Drive Information:

Virtual Drive: 0 (Target Id: 0)

Name :RAID10_1234

RAID Level : Primary-1, Secondary-0, RAID Level Qualifier-0

Size : 1.088 TB

Sector Size : 512

Is VD emulated : No

Mirror Data : 1.088 TB

State : Optimal

Strip Size : 64 KB

Number Of Drives per span:2

Span Depth : 2

Default Cache Policy: WriteBack, ReadAdaptive, Direct, No Write Cache if Bad BBU

Current Cache Policy: **WriteThrough**, ReadAdaptive, Direct, No Write Cache if Bad BBU

Default Access Policy: Read/Write

Current Access Policy: Read/Write

Disk Cache Policy : Disk's Default

Encryption Type : None

PI type: No PI

Is VD Cached: No

Exit Code: 0x00

يلاحل تقؤملا نيختلا ةركاذ جهن - هاندأ ةميقلال نم ققحتلا لجاتحت

انسح - ىرخأ ةرم ةباتكلا

ةئيس - ةباتكلا

ءيشلا سفنل لاثم اذه:

```
$ sudo megacli -ldinfo -lALL -aALL
```

Adapter 0 -- Virtual Drive Information:

Virtual Drive: 0 (Target Id: 0)

Name :RAID10_1234

RAID Level : Primary-1, Secondary-0, RAID Level Qualifier-0

Size : 1.088 TB

Sector Size : 512

Is VD emulated : No

Mirror Data : 1.088 TB

State : Optimal

Strip Size : 64 KB

Number Of Drives per span:2

Span Depth : 2

Default Cache Policy: **WriteBack**, ReadAdaptive, Direct, No Write Cache if Bad BBU

Current Cache Policy: **WriteBack**, ReadAdaptive, Direct, No Write Cache if Bad BBU

Default Access Policy: Read/Write

Disk Cache Policy : Disk's Default

Disk Cache Policy : Disk's Default

Encryption Type : None

PI type: No PI

Is VD Cached: No

Exit Code: 0x00

intucell@deb017:/intucell/maintenance_portal_6\$

لإجراء اختبار 3. إدخال الأمر: **sudo meaccli -adpBbuCmd -GetBbuStatus -aALL -NoLog**.

```
$ sudo megacli -AdpBbuCmd -GetBbuStatus -aALL -NoLog
```

BBU status for Adapter: 0

BatteryType: CVPM02

Voltage: 9849 mV

Current: 0 mA

Temperature: 25 C

Battery State: Optimal

BBU Firmware Status:

```
Charging Status           : None
Voltage                   : OK
Temperature                : OK
Learn Cycle Requested     : No
Learn Cycle Active        : No
Learn Cycle Status        : OK
Learn Cycle Timeout       : No
I2c Errors Detected       : No
Battery Pack Missing       : No
Battery Replacement required : No
Remaining Capacity Low    : No
Periodic Learn Required   : No
Transparent Learn         : No
No space to cache offload : No
Pack is about to fail & should be replaced : No
Cache Offload premium feature required : No
Module microcode update required : No
```

BBU GasGauge Status: 0x654e

Pack energy : 334 J

Capacitance : 101

Remaining reserve space : 93

Exit Code: 0x00

لإجراء اختبار 4. إدخال الأمر: **sudo megaACLI -AdpAllInfo -aALL**.

```
$ sudo megacli -AdpAllInfo -aALL
```

Adapter #0

=====

Versions

=====

Product Name : LSI MegaRAID SAS 9271-8i

Serial No : SV50206143

FW Package Build: 23.29.0-0014

Mfg. Data

=====

Mfg. Date : 01/04/15

Rework Date : 00/00/00

Revision No : 33B
Battery FRU : N/A

Image Versions in Flash:

=====

BIOS Version : 5.47.05.0_4.16.08.00_0x06080500
WebBIOS Version : 6.1-71-e_71-Rel
Preboot CLI Version: 05.07-00:##00011
FW Version : 3.410.05-3484
NVDATA Version : 2.1406.03-0134
Boot Block Version : 2.05.00.00-0010
BOOT Version : 07.26.26.219

Pending Images in Flash

=====

None

PCI Info

=====

Controller Id : 0000
Vendor Id : 1000
Device Id : 005b
SubVendorId : 1000
SubDeviceId : 9271

Host Interface : PCIE

ChipRevision : D1

Link Speed : 0
Number of Frontend Port: 0
Device Interface : PCIE

Number of Backend Port: 8

Port	Address
0	74a2e6a2b23600bf
1	0000000000000000
2	0000000000000000
3	0000000000000000
4	0000000000000000
5	0000000000000000
6	0000000000000000
7	0000000000000000

HW Configuration

=====

SAS Address : 500605b009f61dd0
BBU : Present
Alarm : Present
NVRAM : Present
Serial Debugger : Present
Memory : Present
Flash : Present
Memory Size : 1024MB
TPM : Absent
On board Expander: Absent
Upgrade Key : Absent
Temperature sensor for ROC : Present
Temperature sensor for controller : Absent

ROC temperature : 74 degree Celsius

Settings

=====

Current Time : 7:3:27 2/19, 2016
Predictive Fail Poll Interval : 300sec
Interrupt Throttle Active Count : 16
Interrupt Throttle Completion : 50us
Rebuild Rate : 30%
PR Rate : 30%
BGI Rate : 30%
Check Consistency Rate : 30%
Reconstruction Rate : 30%
Cache Flush Interval : 4s
Max Drives to Spinup at One Time : 2
Delay Among Spinup Groups : 12s
Physical Drive Coercion Mode : 1GB
Cluster Mode : Disabled
Alarm : Enabled
Auto Rebuild : Enabled
Battery Warning : Enabled
Ecc Bucket Size : 15
Ecc Bucket Leak Rate : 1440 Minutes
Restore HotSpare on Insertion : Disabled
Expose Enclosure Devices : Enabled
Maintain PD Fail History : Disabled
Host Request Reordering : Enabled
Auto Detect BackPlane Enabled : SGPIO/i2c SEP
Load Balance Mode : Auto
Use FDE Only : Yes
Security Key Assigned : No
Security Key Failed : No
Security Key Not Backedup : No
Default LD PowerSave Policy : Automatic
Maximum number of direct attached drives to spin up in 1 min : 10
Auto Enhanced Import : Yes
Any Offline VD Cache Preserved : No
Allow Boot with Preserved Cache : No
Disable Online Controller Reset : No
PFK in NVRAM : Yes
Use disk activity for locate : No
POST delay : 90 seconds
BIOS Error Handling : Pause on Errors
Current Boot Mode : Normal

Capabilities

=====

RAID Level Supported : RAID0, RAID1, RAID5, RAID6, RAID00, RAID10, RAID50, RAID60,
PRL 11, PRL 11 with spanning, SRL 3 supported, PRL11-RLQ0 DDF layout with no span, PRL11-RLQ0
DDF layout with span

Supported Drives : SAS, SATA

Allowed Mixing:

Mix in Enclosure Allowed

Mix of SAS/SATA of HDD type in VD Allowed

Mix of SAS/SATA of SSD type in VD Allowed

Status

=====

ECC Bucket Count : 0

Limitations

=====

Max Arms Per VD : 32
Max Spans Per VD : 8
Max Arrays : 128
Max Number of VDs : 64
Max Parallel Commands : 1008

Max SGE Count : 60
Max Data Transfer Size : 8192 sectors
Max Strips PerIO : 42
Max LD per array : 64
Min Strip Size : 8 KB
Max Strip Size : 1.0 MB
Max Configurable CacheCade Size: 0 GB
Current Size of CacheCade : 0 GB
Current Size of FW Cache : 866 MB

Device Present

=====

Virtual Drives : 1
Degraded : 0
Offline : 0
Physical Devices : 6
Disks : 4
Critical Disks : 0
Failed Disks : 0

Supported Adapter Operations

=====

Rebuild Rate : Yes
CC Rate : Yes
BGI Rate : Yes
Reconstruct Rate : Yes
Patrol Read Rate : Yes
Alarm Control : Yes
Cluster Support : No
BBU : Yes
Spanning : Yes
Dedicated Hot Spare : Yes
Revertible Hot Spares : Yes
Foreign Config Import : Yes
Self Diagnostic : Yes
Allow Mixed Redundancy on Array : No
Global Hot Spares : Yes
Deny SCSI Passthrough : No
Deny SMP Passthrough : No
Deny STP Passthrough : No
Support Security : No
Snapshot Enabled : No
Support the OCE without adding drives : Yes
Support PFK : Yes
Support PI : Yes
Support Boot Time PFK Change : No
Disable Online PFK Change : No
Support LDPI Type1 : No
Support LDPI Type2 : No
Support LDPI Type3 : No
PFK TrailTime Remaining : 0 days 0 hours
Support Shield State : Yes
Block SSD Write Disk Cache Change: No
Support Online FW Update : Yes

Supported VD Operations

=====

Read Policy : Yes
Write Policy : Yes
IO Policy : Yes
Access Policy : Yes
Disk Cache Policy : Yes
Reconstruction : Yes
Deny Locate : No

Deny CC : No
Allow Ctrl Encryption: No
Enable LDBBM : No
Support Breakmirror : No
Power Savings : No

Supported PD Operations

=====

Force Online : Yes
Force Offline : Yes
Force Rebuild : Yes
Deny Force Failed : No
Deny Force Good/Bad : No
Deny Missing Replace : No
Deny Clear : No
Deny Locate : No
Support Temperature : Yes
NCQ : Yes
Disable Copyback : No
Enable JBOD : No
Enable Copyback on SMART : No
Enable Copyback to SSD on SMART Error : Yes
Enable SSD Patrol Read : No
PR Correct Unconfigured Areas : Yes
Enable Spin Down of UnConfigured Drives : Yes
Disable Spin Down of hot spares : No
Spin Down time : 30
T10 Power State : No

Error Counters

=====

Memory Correctable Errors : 0
Memory Uncorrectable Errors : 0

Cluster Information

=====

Cluster Permitted : No
Cluster Active : No

Default Settings

=====

Phy Polarity : 0
Phy PolaritySplit : 0
Background Rate : 30
Strip Size : 64kB
Flush Time : 4 seconds
Write Policy : WB
Read Policy : Adaptive
Cache When BBU Bad : Disabled
Cached IO : No
SMART Mode : Mode 6
Alarm Disable : Yes
Coercion Mode : 1GB
ZCR Config : Unknown
Dirty LED Shows Drive Activity : No
BIOS Continue on Error : 1
Spin Down Mode : Internal Only
Allowed Device Type : SAS/SATA Mix
Allow Mix in Enclosure : Yes
Allow HDD SAS/SATA Mix in VD : Yes
Allow SSD SAS/SATA Mix in VD : Yes
Allow HDD/SSD Mix in VD : No
Allow SATA in Cluster : No
Max Chained Enclosures : 16
Disable Ctrl-R : Yes

```

Enable Web BIOS : Yes
Direct PD Mapping : No
BIOS Enumerate VDs : Yes
Restore Hot Spare on Insertion : No
Expose Enclosure Devices : Yes
Maintain PD Fail History : No
Disable Puncturing : No
Zero Based Enclosure Enumeration : No
PreBoot CLI Enabled : Yes
LED Show Drive Activity : No
Cluster Disable : Yes
SAS Disable : No
Auto Detect BackPlane Enable : SGPIO/i2c SEP
Use FDE Only : Yes
Enable Led Header : No
Delay during POST : 0
EnableCrashDump : No
Disable Online Controller Reset : No
EnableLDBBM : No
Un-Certified Hard Disk Drives : Allow
Treat Single span R1E as R10 : No
Max LD per array : 64
Power Saving option : All power saving options are enabled
Default spin down time in minutes: 30
Enable JBOD : No
TTY Log In Flash : Yes
Auto Enhanced Import : Yes
BreakMirror RAID Support : No
Disable Join Mirror : No
Enable Shield State : No
Time taken to detect CME : 60s

```

Exit Code: 0x00

لإيقاف تشغيل الترميز، قس ان الترميز نم ق قحت الترميز. 5 ةوطخلال: `sudo megaACLI -ldinfo -lALL -aALL`.

```
$ sudo megacli -ldinfo -lALL -aALL
```

Adapter 0 -- Virtual Drive Information:

```

Virtual Drive: 0 (Target Id: 0)
Name : RAID10_1234
RAID Level : Primary-1, Secondary-0, RAID Level Qualifier-0
Size : 1.088 TB
Sector Size : 512
Is VD emulated : No
Mirror Data : &colon; 1.088 TB
State : Optimal
Strip Size : 64 KB
Number Of Drives per span:2
Span Depth : 2
Default Cache Policy: WriteBack, ReadAdaptive, Direct, No Write Cache if Bad BBU
Current Cache Policy: WriteBack, ReadAdaptive, Direct, No Write Cache if Bad BBU
Default Access Policy: Read/Write
Current Access Policy: Read/Write
Disk Cache Policy : Disk's Default

```

Ongoing Progresses:

Check Consistency : Completed 43%, Taken 11 min.

Encryption Type : None

PI type: No PI

Is VD Cached: No

Exit Code: 0x00

رمال ليغش تب مق، قسانت ل نم ققحت ل ل ينمزل ل ل صاف ل ل تاداع ل 6. ةوطخ ل ل
sudo megaCLI -AdpCcSched -Info -aALL.

168 ريخأت ةم ي ق ل ل م ا ي 7 ل ك RAID ل قسانت ص ح ف ا ر ج ا ب RAID ي ف م ك ح ت ل ل ة د ح و م و ق ت
ت ا ع ا س ل ل ا ب ا ن ه ة ح ض و م ل ل .

```
$ sudo megacli -AdpCcSched -Info -aALL
```

Adapter #0

Operation Mode: Concurrent

Execution Delay: 168

Next start time: 02/20/2016, 03:00:00

Current State: Active

Number of iterations: 43

Number of VD completed: 0

Excluded VDs : None

Exit Code: 0x00

run: **sudo megaCLI -adpEventLog -GetEvents -f events.log-aALL & cat events.log** | رث ك ا |
 RAID ا ا د ح ا ل ج س ي ل ع ل و ص ح ل ل 7. ةوطخ ل ل

```
$ sudo megacli -AdpEventLog -GetEvents -f events.log -aALL && cat events.log | more
```

Success in AdpEventLog

Exit Code: 0x00

Adapter: 0 - Number of Events : 1404

seqNum: 0x00000002

Seconds since last reboot: 78

Code: 0x0000001e

Class: 0

Locale: 0x20

Event Description: Event log cleared

Event Data:

=====

None

seqNum: 0x00000003

Seconds since last reboot: 78

Code: 0x0000002b

Class: 0

Locale: 0x20

Event Description: Test event: 'Event log adjusted, possibly due Firmware version incompatibility'

Event Data:

=====

String: Event log adjusted, possibly due Firmware version incompatibility

seqNum: 0x00000004

Seconds since last reboot: 4

Code: 0x00000000

Firmware Version: 2.50
Rebuild Priority: Medium
Expand Priority: Medium
Surface Scan Delay: 15 secs
Surface Scan Mode: Idle
Queue Depth: Automatic
Monitor and Performance Delay: 60 min
Elevator Sort: Enabled
Degraded Performance Optimization: Disabled
Inconsistency Repair Policy: Disabled
Wait for Cache Room: Disabled
Surface Analysis Inconsistency Notification: Disabled
Post Prompt Timeout: 0 secs
Cache Board Present: True
Cache Status: OK
Cache Ratio: 25% Read / 75% Write
Drive Write Cache: Disabled
Total Cache Size: 256 MB
Total Cache Memory Available: 144 MB
No-Battery Write Cache: Disabled
Cache Backup Power Source: Batteries
Battery/Capacitor Count: 1
Battery/Capacitor Status: OK
SATA NCQ Supported: True

Array: A

Interface Type: SAS
Unused Space: 0 MB
Status: OK
Array Type: Data

Logical Drive: 1

Size: 136.7 GB
Fault Tolerance: 1
Heads: 255
Sectors Per Track: 32
Cylinders: 35132
Strip Size: 128 KB
Full Stripe Size: 128 KB
Status: OK
Caching: Enabled
Unique Identifier: 600508B1001037383941424344450E00
Disk Name: /dev/cciss/c0d0
Mount Points: /boot 243 MB
OS Status: LOCKED
Logical Drive Label: A00F9DBE50123456789ABCDEA8A8
Mirror Group 0:
 physicaldrive 1I:1:1 (port 1I:box 1:bay 1, SAS, 146 GB, OK)
Mirror Group 1:
 physicaldrive 1I:1:2 (port 1I:box 1:bay 2, SAS, 146 GB, OK)
Drive Type: Data

physicaldrive 1I:1:1

Port: 1I
Box: 1
Bay: 1
Status: OK
Drive Type: Data Drive
Interface Type: SAS
Size: 146 GB
Rotational Speed: 10000
Firmware Revision: HPD5

Serial Number: D0A1P9B09YJW0949
Model: HP EG0146FARTR
Current Temperature (C): 18
Maximum Temperature (C): 39
PHY Count: 2
PHY Transfer Rate: 6.0Gbps, Unknown

physicaldrive 1I:1:2
Port: 1I
Box: 1
Bay: 2
Status: OK
Drive Type: Data Drive
Interface Type: SAS
Size: 146 GB
Rotational Speed: 10000
Firmware Revision: HPD5
Serial Number: D0A1P9B09YKM0949
Model: HP EG0146FARTR
Current Temperature (C): 17
Maximum Temperature (C): 47
PHY Count: 2
PHY Transfer Rate: 6.0Gbps, Unknown

SEP (Vendor ID PMCSIERA, Model SRC 8x6G) 250
Device Number: 250
Firmware Version: RevC
WWID: 50123456789ABCED
Vendor ID: PMCSIERA
Model: SRC 8x6G

3. show controller status. run رقم: hpacucli ctrl all show status.

```
# hpacucli ctrl all show status  
  
Smart Array P410i in Slot 0 (Embedded)  
Controller Status: OK  
Cache Status: OK  
Battery/Capacitor Status: OK
```

4. وضع الة ل ك hpacucli ctrl slot=0 pd ،ة دامل الة ل ا ل راهظ ا .

```
# hpacucli ctrl slot=0 pd all show status  
  
physicaldrive 1I:1:1 (port 1I:box 1:bay 1, 146 GB): OK  
physicaldrive 1I:1:2 (port 1I:box 1:bay 2, 146 GB): OK
```

5. وضع الة ل ك hpacucli ctrl slot=0 ld ،ة قطنم الة ل ا ل راهظ ا .

```
# hpacucli ctrl slot=0 pd all show status  
  
physicaldrive 1I:1:1 (port 1I:box 1:bay 1, 146 GB): OK  
physicaldrive 1I:1:2 (port 1I:box 1:bay 2, 146 GB): OK
```

```
root@deb011:/intucell# hpacucli ctrl slot=0 ld all show status
```

```
logicaldrive 1 (136.7 GB, 1): OK
```

لحل

نأبجى. كذىف ببسلا مداوخلأ دأىف ةبىعملأ ةىراطبلا نوكت دق ناىأالأ ضعبىفو
هلدبتست.

صرقلل ىلأعلا ءادألا مادختسإ لىلقوتو ةلكشملا لىلأ كذىدؤى.

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسم ل ا اذ ه Cisco ت مچرت
م ل ا ل ا ا ن ا ع مچ م ف ن م دخت س م ل م عد و ت م م م دقت ل ة م ش ب ل و
م ك ة ق م ق د ن و ك ت ن ل ة مچرت ل ض ف ا ن ا ة ظ ح ا ل م م چ ر م . ة ص ا خ ل م ه ت غ ل ب
Cisco مچرت م ا م د ق م م ا م ف ا ر ت ح ا ل ا ة مچرت ل م ل ا ح ل ا و ه
ل ا م ا د ع و چ ر ل ا ب م ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت م ل و ئ م س م
Systems (ر ف و ت م ط ب ا ر ل ا) م ل ص ا ل ا م م ل م چ ن ل ا دن ت س م ل ا