TechNote na utilização alta do desempenho do disco

Índice

Introdução

Este documento descreve um procedimento quando você experimenta a utilização 100% de alcance do desempenho do disco e a necessidade verificar se seja uma edição do aplicativo ou um problema de hardware, você é exigido para executar diversos comandos analisar a situação.

Pré-requisitos

Requisitos

Não existem requisitos específicos para este documento.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Série do Cisco Unified Computing System (UCS)
- Server de Hewlett-Packard (HP)

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

Problema: Utilização alta do desempenho do disco

O sistema trabalha lento e não é estável. Você experimenta a utilização 100% de alcance do desempenho do disco.

Troubleshooting

O rápido e a maneira fácil são alcançar a interface da WEB do Gerenciamento e examinar o status de hardware do armazenamento.

Quando não há nenhum acesso ao Gerenciamento remoto do controlador do gerenciamento integrado de Cisco (CIMC) para a série do sistema de Unified Computing (UCS) ou as luzes-Para fora integradas (ILO) em server HP, você pode obter a informação sobre o RAID e os discos usando este método:

Para server do Cisco Unified Computing System (UCS):

As distribuições de Debian usam um pacote nomeado “megacli”.

Mais informação sobre esta ferramenta - http://hwraid.le-vert.net/wiki/LSIMegaRAIDSAS

Exemplos como usar o comando - http://www.mostlychris.com/blog/2009/07/29/check-raid-status-with-megacli/

O pacote para debian pode ser transferido e instalado.

> **Note**: É testada com megacli_8.07.14-1_amd64.deb

A fim verificar que controladores do harware são usados, execute o comando: **lspci do sudo - vv | grep - i RAID**

por exemplo.

Controlador do barramento de 82:00.0 RAID: [Thunderbolt] de **MegaRAID** SAS 2208 da lógica LSI/lógica de Symbios (rev 05)

> Driver de núcleo no uso: megaraid_sas

mais informação sobre este comando pode ser encontrada em:

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

Executando a como a raiz, execute o comando: **sudo /usr/bin/megacli**

Série do Cisco Unified Computing System (UCS)

Etapa 1. Encontre seus detalhes do controlador RAID, execute o comando: **lspci - vv | grep - i RAID**.

O controlador RAID é um dispositivo.

```
$ 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- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq-
ACSViol-
UEMsk: DLP- SDES- TLP- FCP- CmpltTO- CmpltAbrt- UnxCmplt- RxOF- MalfTLP- ECRC- UnsupReq+
ACSViol-
UESvrt: DLP+ SDES+ TLP- FCP+ CmpltTO- CmpltAbrt- UnxCmplt- RxOF+ MalfTLP+ 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
```

Etapa 2. Verificando o exame e a unidade virtual da série do sistema de Unified Computing

(UCS), execute o comando: **megacli do sudo - ldinfo - lALL - aAL**.

```
$ 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: 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
```

Você precisa de verificar abaixo o valor - **Política atual do esconderijo**

WriteBack - APROVAÇÃO

WriteThrough - RUIM

Este é um exemplo para o mesmos:

```
$ 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$
```

Etapa 3. A verificação da bateria, executa o comando: **megacli do sudo - AdpBbuCmd - GetBbuStatus - aALL - NoLog**.

```
$ 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$
```

Etapa 4. A informação do disco físico, executa o comando: **megacli do sudo - 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
```

Etapa 5. A verificação consistente, executa o comando: **megacli do sudo - 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
```

Etapa 6. As configurações de intervalo da verificação consistente, executam o comando: **megacli do sudo - AdpCcSched - Informação - aALL**.

O controlador RAID executa uma verificação consistente do RAID os dias cada 7. O atraso 168 do valor mostrado dentro está aqui nas horas.

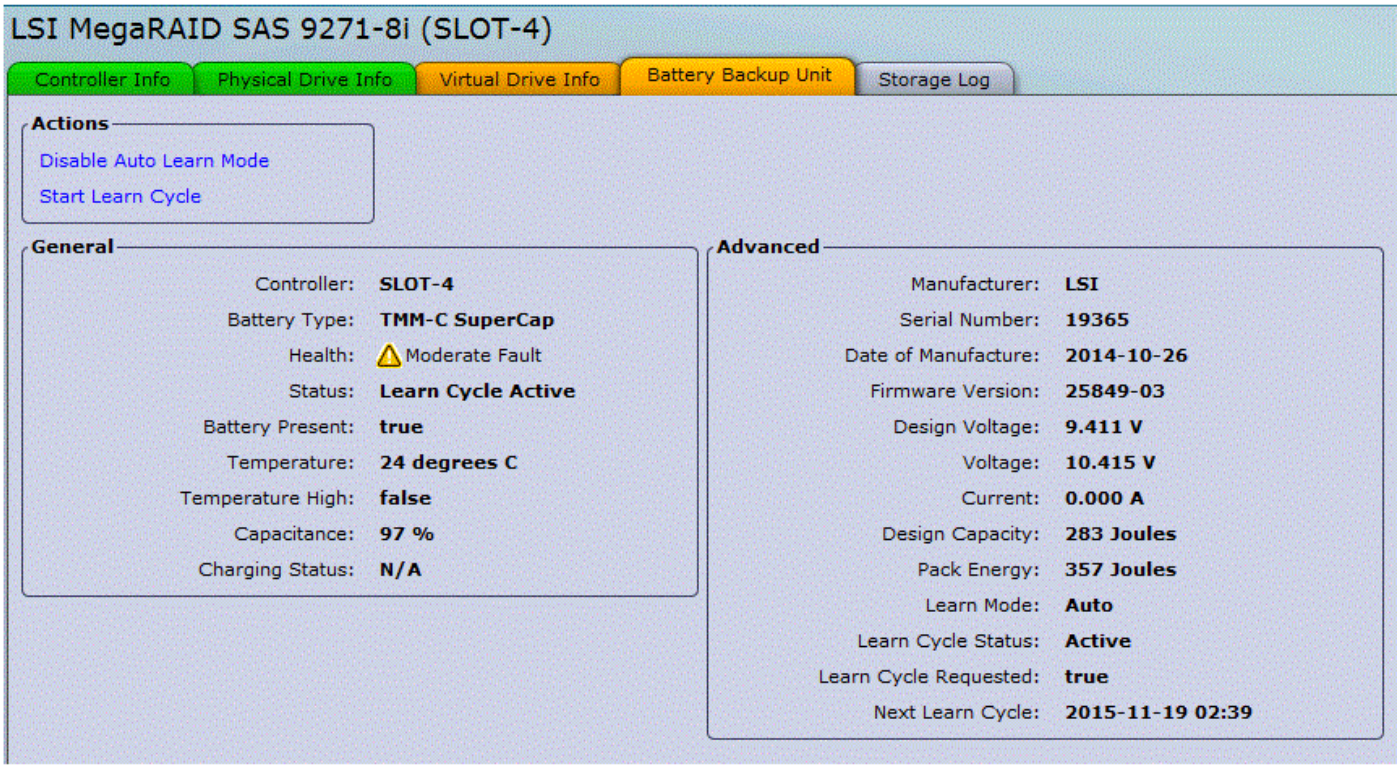
```
$ sudo megacli -AdpCcSched -Info -aALL

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
```

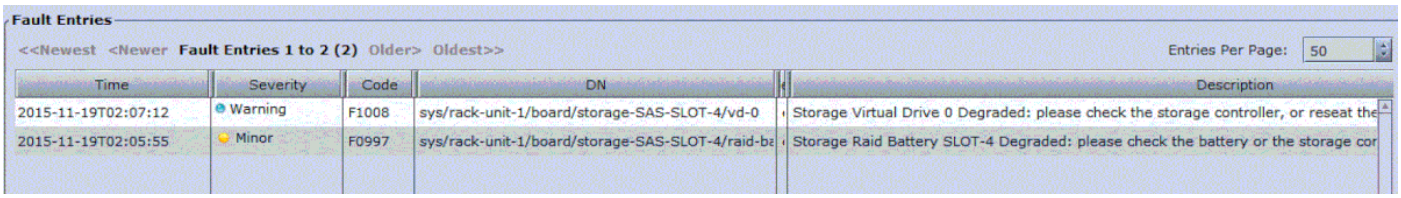
Etapa 7. Obtenha o log de eventos RAID, execute o comando: **megacli do sudo - AdpEventLog - GetEvents - f events.log - gato events.log do && do aALL | mais**.

```
$ 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
```

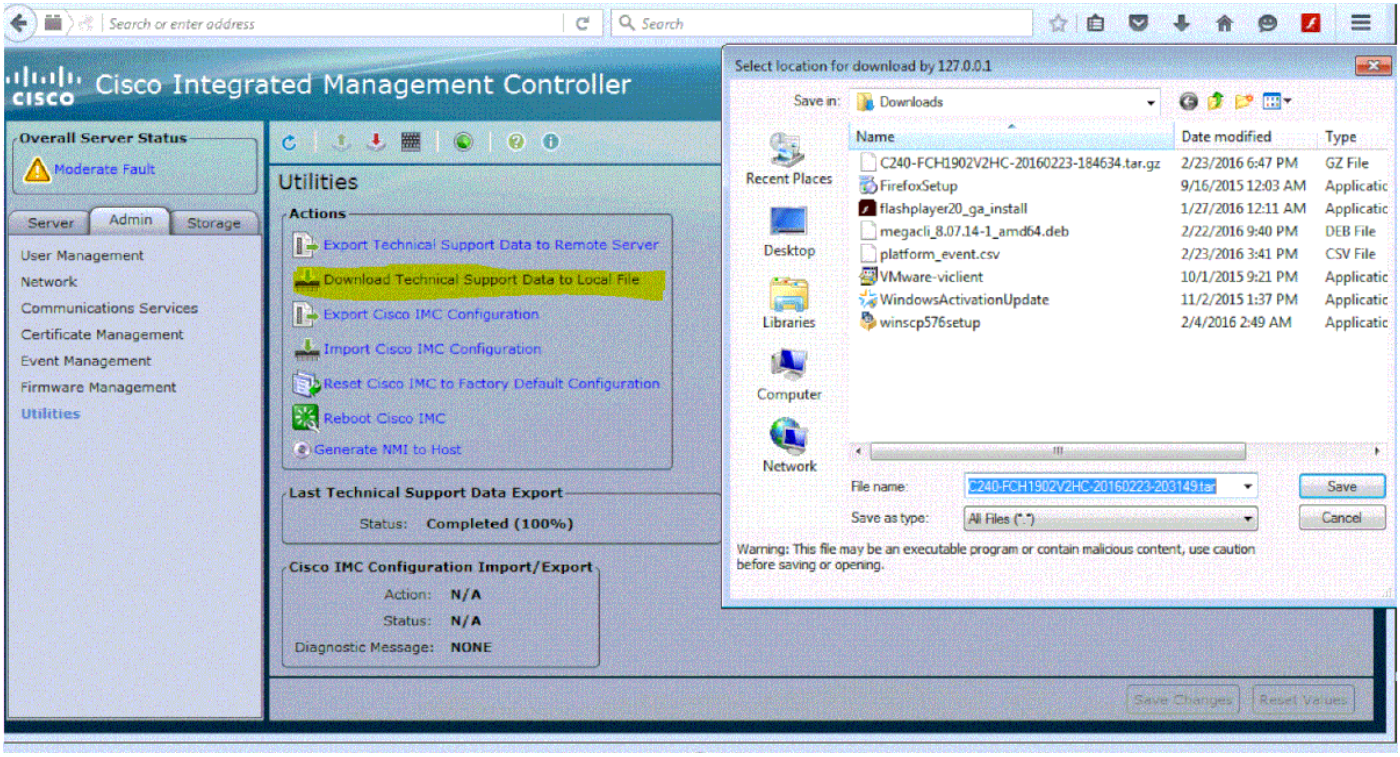
Edições como visto na interface da WEB do gerenciamento integrado de Cisco que olha o controlador do armazenamento:

Verificação da bateria





Você pode salvar o log para a análise posterior.



Hardware de Hewlett-Packard (HP)

Para o HP há um pacote especial para Debian que necessidades de ser instalado a fim aceder ao controlador e aos discos físicos RAID. O pacote é nomeado [hpacucli_9.40.1-1._amd64.deb]

Etapa 1. A instalação:

- Entre a seu sistema Linux com sua conta privada.
- Transfira o pacote a seu sistema Linux: wget http://downloads.linux.hpe.com/SDR/repo/mcp/debian/pool/non-free/hpacucli_9.40.1-1._amd64.deb
- execute o comando: dpkg do sudo – i hpacucli_9.40.1-1._amd64.deb

Quando a instalação é terminada, você pode trabalhar com a manipulação RAID usando a seguinte ferramenta CLI: hpacucli

A ferramenta reserva buscar a informação apropriada do controlador RAID assim como mudar a configuração com os componentes RAID.

Etapa 2. Os detalhes da configuração de controle do indicador, executam o comando: **o hpacucli CTRL todo mostra o detalhe da configuração**.

```
$ 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
```

Etapa 3. Mostre o status de controle, execute o comando: **o hpacucli CTRL todo mostra o estado**.

```
$ 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
```

Etapa 4. O estado do show physical, executa o comando: **o paládio todo do hpacucli CTRL slot=0 mostra o estado.**

```
$ 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
```

Etapa 5. Mostre o estado lógico, execute o comando: **o hpacucli CTRL slot=0 ld todo mostra o estado**.

```
$ 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
```

Solução

Às vezes uma bateria ruim em um dos server pode ser a razão para ela. Você deve substitui-la.

Isto resolve o problema e reduz a utilização alta do desempenho do disco.