



Viewing Server Properties

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Viewing Server Properties

Procedure

	Command or Action	Purpose
Step 1	Server# show chassis [detail]	Displays server properties.

This example displays server properties:

```
Server# show chassis detail
Chassis:
  Power: on
  Serial Number: QCI140205ZG
  Product Name: UCS C210 M2
  PID : R210-2121605W
  UUID: FFFFFFFF-FFFF-FFFF-FFFF-FFFFFFFFFFFFFF
  Locator LED: off
```

Description: This shows the chassis details.

Server#

This example displays server properties for C3160 servers:

```
Server# show chassis detail
Chassis:
  Power: on
  Serial Number: FCH1821JAVL
  Product Name: UCS C3160
  PID : UCSC-C3X60-SVRNB
  UUID: 84312F76-75F0-4BD1-9167-28B74EBB444C
  Locator LED: off
  Front Panel Locator LED: off
  Description: This shows the chassis details
Server#
```

Viewing a Server Utilization

You can view a server utilization only on some UCS C-Series servers.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # show cups-utilization	Displays the server utilization value on all the available CPUs. Note These utilization values are reported as a percentage of the total hardware bandwidth. These values may not match with the values being displayed by the host based resource monitoring software.

This example shows how to view the server utilization value:

```
Server# scope chassis
Server /chassis # show cups-utilization

CPU Utilization (%)  Memory Utilization (%)  I/O Utilization (%)  Overall Utilization (%)
-----
100                   69                          0                      86

Server /chassis #
```

Viewing Cisco IMC Properties



Note

Cisco IMC gets the current date and time from the server BIOS. To change this information, reboot the server and press **F2** when prompted to access the BIOS configuration menu. Then change the date or time using the options on the main BIOS configuration tab.

Procedure

	Command or Action	Purpose
Step 1	Server# show cimc [detail]	Displays Cisco IMC properties.

This example displays Cisco IMC properties:

```
Server# show cimc detail
Cisco IMC:
  Firmware Version: 2.0(8.122)
  Current Time: Wed Dec  9 23:14:28 2015
  Boot-loader Version: 2.0(8.122).36
  Local Time: Wed Dec  9 23:14:28 2015 UTC +0000
  Timezone: UTC
  Reset Reason: graceful-reboot (This provides the last Cisco IMC reboot reason.)

Server#
```

Viewing CPU Properties

Before You Begin

The server must be powered on, or the properties will not display.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters chassis command mode.
Step 2	Server /chassis # show cpu [detail]	Displays CPU properties.

This example displays CPU properties:

```
Server# scope chassis
Server /chassis # show cpu
Name          Cores    Version
-----
CPU1          4        Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
CPU2          4        Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz

Server /chassis #
```

Viewing Memory Properties

Before You Begin

The server must be powered on, or the properties will not display.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters chassis command mode.
Step 2	Server /chassis # show dimm [detail]	Displays memory properties.
Step 3	Server /chassis # show dimm-summary	Displays DIMM summary information.

This example displays memory properties:

```
Server# scope chassis
Server /chassis # show dimm
Name                               Capacity           Channel Speed (MHz) Channel Type
-----
DIMM_A1                            2048 MB            1067                Other
DIMM_A2                            2048 MB            1067                Other
DIMM_B1                            2048 MB            1067                Other
DIMM_B2                            2048 MB            1067                Other
DIMM_C1                            Not Installed      Unknown              Other
DIMM_C2                            Not Installed      Unknown              Other
DIMM_D1                            2048 MB            1067                Other
DIMM_D2                            2048 MB            1067                Other
DIMM_E1                            2048 MB            1067                Other
DIMM_E2                            2048 MB            1067                Other
DIMM_F1                            Not Installed      Unknown              Other
DIMM_F2                            Not Installed      Unknown              Other
```

Server /chassis #

This example displays detailed information about memory properties:

```
Server# scope chassis
Server /chassis # show dimm detail
Name DIMM_A1:
  Capacity: 2048 MB
  Channel Speed (MHz): 1067
  Channel Type: Other
  Memory Type Detail: Synchronous
  Bank Locator: NODE 0 CHANNEL 0 DIMM 0
  Visibility: Yes
  Operability: Operable
  Manufacturer: 0x802C
  Part Number: 18JSF25672PY-1G1D1
  Serial Number: 0xDA415F3F
  Asset Tag: Unknown
  Data Width: 64 bits
Name DIMM_A2:
  Capacity: 2048 MB
--More--
```

Server /chassis #

This example displays DIMM summary information:

```
Server# scope chassis
Server /chassis # show dimm-summary
DIMM Summary:
  Memory Speed: 1067 MHz
  Total Memory: 16384 MB
  Effective Memory: 16384 MB
  Redundant Memory: 0 MB
  Failed Memory: 0 MB
  Ignored Memory: 0 MB
  Number of Ignored Dimms: 0
  Number of Failed Dimms: 0
  Memory RAS possible: Memory configuration can support mirroring
```

```
Memory Configuration: Maximum Performance
```

```
Server /chassis #
```

Viewing Power Supply Properties

Before You Begin

The server must be powered on, or the properties will not display.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters chassis command mode.
Step 2	Server /chassis # show psu [detail]	Displays power supply properties.

This example displays power supply properties:

```
Server# scope chassis
Server /chassis # show psu
Name          In. Power (Watts)  Out. Power (Watts)  Firmware  Status
-----
PSU1          74                 650                 R0E       Present
PSU2          83                 650                 R0E       Present
Server /chassis #
```



Note Input Power and Maximum Output Power options are available only for some C-Series servers.

Viewing Storage Properties

Viewing Storage Adapter Properties

Before You Begin

The server must be powered on, or the properties will not display.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # show storageadapter [slot] [detail]	Displays installed storage cards.

	Command or Action	Purpose
		Note This command displays all MegaRAID controllers on the server that can be managed through Cisco IMC. If an installed controller or storage device is not displayed, then it cannot be managed through Cisco IMC.
Step 3	Server /chassis # scope storageadapter slot	Enters command mode for an installed storage card.
Step 4	Server /chassis/storageadapter # show bbu [detail]	Displays battery backup unit information for the storage card.
Step 5	Server /chassis/storageadapter # show capabilities [detail]	Displays RAID levels supported by the storage card.
Step 6	Server /chassis/storageadapter # show error-counters [detail]	Displays number of errors seen by the storage card.
Step 7	Server /chassis/storageadapter # show firmware-versions [detail]	Displays firmware version information for the storage card.
Step 8	Server /chassis/storageadapter # show hw-config [detail]	Displays hardware information for the storage card.
Step 9	Server /chassis/storageadapter # show mfg-data [detail]	Displays manufacturer data for the storage card.
Step 10	Server /chassis/storageadapter # show pci-info [detail]	Displays adapter PCI information for the storage card.
Step 11	Server /chassis/storageadapter # show running-firmware-images [detail]	Displays running firmware information for the storage card.
Step 12	Server /chassis/storageadapter # show settings [detail]	Displays adapter firmware settings for the storage card.
Step 13	Server /chassis/storageadapter # show startup-firmware-images [detail]	Displays firmware images to be activated on startup for the storage card.

This example displays storage properties:

```

Server# scope chassis
Server /chassis # show storageadapter
PCI Slot Product Name                Serial Number  Firmware Package Build
-----
SAS          LSI MegaRAID SAS 9260-8i    SV93404392    12.12.0-0038

          Product ID    Battery Status  Cache Memory Size
-----
          LSI Logic      fully charged  0 MB

Server /chassis #

```

This example displays battery backup unit information for the storage card named SAS:

```
Server# scope chassis
Server /chassis # scope storageadapter SAS
Server /chassis/storageadapter # show bbu
Controller Battery Type Battery Present Voltage Current Charge Charging State
-----
SAS iBBU true 4.051 V 0.000 A 100% fully charged
Server /chassis/storageadapter #
```

Viewing the Flexible Flash Controller Properties

Before You Begin

- Cisco Flexible Flash must be supported by your platform.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # show flexflash [detail]	(Optional) Displays the available Cisco Flexible Flash controllers.
Step 3	Server /chassis # scope flexflash index	Enters the Cisco Flexible Flash controller command mode for the specified controller. At this time, the only permissible <i>index</i> value is FlexFlash-0 .
Step 4	Server /chassis/flexflash # show operational-profile [detail]	Displays the operational profile properties.

This example displays the properties of the flash controller:

```
Server# scope chassis
Server /chassis # show flexflash
Controller Product Name Has Error Firmware Version Vendor Internal State
-----
FlexFlash-0 Cisco FlexFlash No 1.2 build 247 Cypress Connected

Server /chassis # scope flexflash FlexFlash-0
Server /chassis # show operational-profile
Primary Member Slot I/O Error Threshold Host Accessible VDs
-----
slot1 100 SCU Drivers
Server /chassis/flexflash #
```

Viewing Physical Drive Properties

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # scope storageadapter slot	Enters command mode for an installed storage card.
Step 3	Server /chassis/storageadapter # show physical-drive [drive-number] [detail]	Displays physical drive information for the storage card.
Step 4	Server /chassis/storageadapter # show physical-drive-count [detail]	Displays the number of physical drives on the storage card.
Step 5	Server /chassis/storageadapter # scope physical-drive drive-number	Enters command mode for the specified physical drive.
Step 6	Server /chassis/storageadapter/physical-drive # show general [detail]	Displays general information about the specified physical drive.
Step 7	Server /chassis/storageadapter/physical-drive # show inquiry-data [detail]	Displays inquiry data about the specified physical drive.
Step 8	Server /chassis/storageadapter/physical-drive # show status [detail]	Displays status information about the specified physical drive.

This example displays general information about physical drive number 1 on the storage card named SAS:

```
Server# scope chassis
Server /chassis # scope storageadapter SAS
Server /chassis/storageadapter # scope physical-drive 1
Server /chassis/storageadapter/physical-drive # show general
Slot Number 1:
  Controller: SAS
  Enclosure Device ID: 27
  Device ID: 34
  Sequence Number: 2
  Media Error Count: 0
  Other Error Count: 0
  Predictive Failure Count: 0
  Link Speed: 6.0 Gb/s
  Interface Type: SAS
  Media Type: HDD
  Block Size: 512
  Block Count: 585937500
  Raw Size: 286102 MB
  Non Coerced Size: 285590 MB
  Coerced Size: 285568 MB
  SAS Address 0: 500000e112693fa2
  SAS Address 1:
  Connected Port 0:
  Connected Port 1:
  Connected Port 2:
  Connected Port 3:
  Connected Port 4:
  Connected Port 5:
```



```

Connected Port 6:
Connected Port 7:
Power State: powersave

```

```
Server /chassis/storageadapter/physical-drive #
```

This example displays inquiry data about physical drive number 1 on the storage card named SAS:

```

Server# scope chassis
Server /chassis # scope storageadapter SAS
Server /chassis/storageadapter # scope physical-drive 1
Server /chassis/storageadapter/physical-drive # show inquiry-data
Slot Number 1:
  Controller: SAS
  Product ID: MBD2300RC
  Drive Firmware: 5701
  Drive Serial Number: D010P9A0016D

```

```
Server /chassis/storageadapter/physical-drive #
```

This example displays status information about physical drive number 1 on the storage card named SAS:

```

Server# scope chassis
Server /chassis # scope storageadapter SAS
Server /chassis/storageadapter # scope physical-drive 1
Server /chassis/storageadapter/physical-drive # show inquiry-data
Slot Number 1:
  Controller: SAS
  State: online
  Online: true
  Fault: false

```

```
Server /chassis/storageadapter/physical-drive #
```

Viewing Virtual Drive Properties

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # scope storageadapter slot	Enters command mode for an installed storage card.
Step 3	Server /chassis/storageadapter # show virtual-drive [drive-number] [detail]	Displays virtual drive information for the storage card.
Step 4	Server /chassis/storageadapter # show virtual-drive-count [detail]	Displays the number of virtual drives configured on the storage card.
Step 5	Server /chassis/storageadapter # scope virtual-drive drive-number	Enters command mode for the specified virtual drive.
Step 6	Server /chassis/storageadapter/virtual-drive # show physical-drive [detail]	Displays physical drive information about the specified virtual drive.

This example displays information about virtual drives on the storage card named SAS:

```

Server# scope chassis
Server /chassis # scope storageadapter SAS
Server /chassis/storageadapter # show virtual-drive

```

```

Virtual Drive  Status          Name                               Size          RAID Level
-----
0              Optimal          SLES1SP1beta5                     30720 MB      RAID 0
1              Optimal          RHEL5.5                             30720 MB      RAID 0
2              Optimal          W2K8R2_DC                           30720 MB      RAID 0
3              Optimal          VD_3                                  30720 MB      RAID 0
4              Optimal          ESX4.0u2                             30720 MB      RAID 0
5              Optimal          VMs                                   285568 MB     RAID 0
6              Optimal          RHEL6-35GB                           35840 MB      RAID 0
7              Optimal          OS_Ins_Test_DR                       158720 MB     RAID 0
8              Optimal

```

```
Server /chassis/storageadapter #
```

This example displays physical drive information about virtual drive number 1 on the storage card named SAS:

```

Server# scope chassis
Server /chassis # scope storageadapter SAS
Server /chassis/storageadapter # scope virtual-drive 1
Server /chassis/storageadapter/virtual-drive # show physical-drive
Span  Physical Drive Status      Starting Block Number Of Blocks
-----
0     12                online    62914560    62914560

Server /chassis/storageadapter/virtual-drive #

```

Viewing Nvidia GPU Card Information

These commands are not available on all UCS C-series servers.

Before You Begin

The server must be powered on to view information on the Nvidia GPU cards.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # show gpu	Displays the available Nvidia GPU cards on the system.
Step 3	Server /chassis # scope gpu <i>slot-number</i>	Enters the GPU card command mode. Specify the slot number of the GPU card.
Step 4	Server /chassis/gpu # show gpu-list	Displays temperature information on the GPU cards.

This example shows how to view the temperature information of the available GPU cards on the system:

```

Server # scope chassis
Server /chassis # show gpu

Slot      Product Name          Num of GPUs
-----
5         Nvidia GRID K2 @ BD   2

Server /chassis # scope gpu 5
Server /chassis/gpu # show gpu-list

```

```

GPU ID      Temperature
-----
0           32
1           33

Server /chassis/gpu #

```

Viewing PCI Adapter Properties

Before You Begin

The server must be powered on, or the properties will not display.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # show pci-adapter [detail]	Displays PCI adapter properties.

This example displays PCI adapter properties:

```

Server# scope chassis
Server /chassis # show pci-adapter
Slot Vendor ID Device ID SubVendor ID SubDevice ID Firmware Version Product Name
-----
L 0x8086 0x1521 0x1137 0x008b 0x8000AA5... Intel(R) I350 1 Gbps N...
1 0x19a2 0x0710 0x10df 0xe702 4.6.142.10 Emulex OCell1102-FX 2 p...
3 0x10de 0x118f 0x10de 0x097f N/A Nvidia TESLA K10 P2055...
4 0x14e4 0x1639 0x14e4 0x1639 N/A Broadcom 5709 1 Gbps 2...
5 0x10de 0x0ff2 0x10de 0x1012 N/A Nvidia GRID K1 P2401-502
M 0x1000 0x0073 0x1137 0x00b1 N/A Cisco UCSC RAID SAS 20...

Server /chassis #

```

Viewing Network Related Properties

Viewing LOM Properties

You can view the MAC addresses of the LAN On Motherboard (LOM) Ethernet ports.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # scope network-adapter slot ID	Enters the specific network adapter command mode.

	Command or Action	Purpose
Step 3	Server /chassis/network-adapter # show mac-list [detail]	Displays the MAC addresses of the LOM ports.

This example shows how to display the MAC addresses of the LOM ports:

```
Server# scope chassis
Server /chassis # scope network-adapter L
Server /chassis/network-adapter # show mac-list
Interface ID      MAC Address
-----
eth0              010000002000
eth1              010000002000

Server /chassis/network-adapter #
```

Viewing TPM Properties

Before You Begin

The server must be powered on, or the properties will not display.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # show tpm-inventory	Displays the TPM properties.

This example displays the TPM properties:

```
Server# scope chassis
Server /chassis # show tpm-inventory

Version Presence Enabled-Status Active-Status Ownership Revision Model
Vendor      Serial
-----
A           equipped   disabled    deactivated  unowned     1          UCSX-TPMX-00X  ABC
Inc        FCHXXXXXXXX

Server /chassis #
```