



Viewing Server Properties

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Viewing Server Properties

Before You Begin

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

Procedure

	Command or Action	Purpose
Step 1	Server# <code>scope chassis</code>	Enters chassis command mode.

	Command or Action	Purpose
Step 2	Server /chassis # show detail	Displays server properties.

This example displays server properties:

```
Server# scope chassis
Server /chassis # show detail
Chassis:
  Power: on
  Power Button: unlocked
  IOS Lockout: unlocked
  Serial Number: FOC16161F1P
  Product Name: E160D
  PID : UCS-E160D-M1/K9
  UUID: 1255F7F0-9F17-0000-E312-94B74999D9E7
  Description
```

Viewing the Actual Boot Order

Procedure

	Command or Action	Purpose
Step 1	Server# scope bios	Enters the BIOS command mode.
Step 2	Server /bios # show actual-boot-order	Displays details of the BIOS status.

This example displays actual boot order:

```
Server# scope bios
Server /bios # show actual-boot-order
Boot Order  Type                               Boot Device
-----
1           Internal EFI Shell                          Internal EFI Shell
2           CD/DVD                                       Linux Virtual CD/DVD 0324
3           HDD                                         Cypress
4           HDD                                         Linux Virtual FDD/HDD 0324
5           FDD                                         Linux Virtual Floppy 0324
6           Network Device (PXE)                    BRCM MBA Slot 0301 v15.2.7
7           Network Device (PXE)                    BRCM MBA Slot 0302 v15.2.7
8           Network Device (PXE)                    BRCM MBA Slot 0300 v15.2.7
```

Viewing CIMC Information

Before You Begin

Install the CIMC firmware on the server.

Procedure

	Command or Action	Purpose
Step 1	Server# scope cimc	Enters CIMC command mode.
Step 2	Server /cimc # show [detail]	Displays the CIMC firmware, current time, and boot loader version.

This example shows information about the CIMC:

```
Server# scope cimc
Server /cimc # show detail
CIMC:
  Firmware Version: 1.0(1.20120417172632)
  Current Time: Thu Apr 26 12:11:44 2012
  Boot-loader Version: 1.0(1.20120417172632).16
```

Viewing SD Card Information

Before You Begin

Install the CIMC firmware on the server.

Procedure

	Command or Action	Purpose
Step 1	Server# scope cimc	Enters CIMC command mode.
Step 2	Server /cimc # show sd detail	Displays the following information about the SD card: manufacturer and application ID, serial number, hardware and firmware revision, manufacture date, and whether the SD card is detected. If the card detected status is yes , it indicates that the SD card is present and is functional.

This example shows information about the CIMC:

```
Server# scope cimc
Server /cimc # show sd detail
Manufacturer ID: Unigen 0x000045
  OEM/Application ID: 0x0024
  Serial Number: 0x39500025
  Hardware Revision: 0x2
  Firmware Revision: 0x0
  Manufacture Date: 06/2013
  Card Detected: yes
```

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    E5-2418L 0 @ 2.00GHz
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
-----
Node0_Dimm0    8192 MB       1333           DDR3
Node0_Dimm1    8192 MB       1333           DDR3
Node0_Dimm2    8192 MB       1333           DDR3
```

This example displays detailed information about memory properties:

```
Server# scope chassis
Server /chassis # show dimm detail
Name Node0_Dimm0:
Capacity: 8192 MB
Channel Speed (MHz): 1333
Channel Type: DDR3
Memory Type Detail: Registered (Buffered)
Bank Locator: Node0_Bank0
Visibility: Yes
Operability: Operable
Manufacturer: Samsung
Part Number: M393B1K70DH0-
Serial Number: 86A7D514
Asset Tag: Dimm0_AssetTag
Data Width: 64 bits
Name Node0_Dimm1:
Capacity: 8192 MB
```

This example displays DIMM summary information:

```
Server# scope chassis
Server /chassis # show dimm-summary
DIMM Summary:
Memory Speed: 1334 MHz
Total Memory: 24576 MB
Effective Memory: 24576 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: Reserved
Memory Configuration: Maximum Performance
```

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 power-cap	Enters the power cap command mode.
Step 2	Server /power-cap # show [detail]	Displays the server power consumption information.

This example displays the detailed power supply properties for a single-wide E-Series Server:

```
Server# scope power-cap
Server /power-cap # show detail
Cur Consumption (W): 36.10 W
Max Consumption (W): 075
Min Consumption (W): 36.10 W
Server /power-cap #
```

This example displays the detailed power supply properties for a double-wide E-Series Server:

```
Server# scope power-cap
Server /power-cap # show detail
  Cur Consumption (W): 43.1 W
  Max Consumption (W): 160
  Min Consumption (W): 43.1 W
Server /power-cap #
```

Viewing Storage Properties

Viewing Storage Adapter Properties



Note

This procedure is applicable to E-Series Servers and the SM E-Series NCE. This procedure is not applicable to the EHWIC E-Series NCE and the NIM E-Series NCE.

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 [<i>slot</i>] [detail]	Displays installed storage cards. Note This command displays all MegaRAID controllers on the server that can be managed through the CIMC. If an installed controller or storage device is not displayed, then it cannot be managed through the CIMC.
Step 3	Server /chassis # scope storageadapter SLOT-5	Enters command mode for an installed storage card.
Step 4	Server /chassis/storageadapter # show capabilites [detail]	Displays RAID levels supported by the storage card.
Step 5	Server /chassis/storageadapter # show error-counters [detail]	Displays number of errors seen by the storage card.
Step 6	Server /chassis/storageadapter # show firmware-versions [detail]	Displays firmware version information for the storage card.
Step 7	Server /chassis/storageadapter # show hw-config [detail]	Displays hardware information for the storage card.

	Command or Action	Purpose
Step 8	Server /chassis/storageadapter # show pci-info [detail]	Displays adapter PCI information for the storage card.
Step 9	Server /chassis/storageadapter # show running-firmware-images [detail]	Displays running firmware information for the storage card.
Step 10	Server /chassis/storageadapter # show settings [detail]	Displays adapter firmware settings for the storage card.

This example displays storage properties:

```
Server# scope chassis
Server /chassis # show storageadapter
```

```
Controller Product Name          Firmware Package Build Product ID    Cache Memory
Size
-----
SLOT-5      LSI MegaRAID SAS 2004 ROMB  20.10.1-0092          LSI Logic      0 MB
```

Viewing Physical Drive Properties



Note

This procedure is applicable to E-Series Servers and the SM E-Series NCE. This procedure is not applicable to the EHWIC E-Series NCE and the NIM E-Series NCE.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # scope storageadapter SLOT-5	Enters command mode for an installed storage card.
Step 3	Server /chassis/storageadapter # show physical-drive [slot-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 slot-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.

	Command or Action	Purpose
Step 7	Server /chassis/storageadapter/physical-drive # show security [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 the physical drive number 1 on the storage card named SLOT-5:

```
Server# scope chassis
Server /chassis # scope storageadapter SLOT-5
Server /chassis/storageadapter # scope physical-drive 1
Server /chassis/storageadapter/physical-drive # show general
Slot Number 1:
  Controller: SLOT-5
  Enclosure Device ID: 64
  Device ID: 3
  Sequence Number: 2
  Media Error Count: 0
  Other Error Count: 12
  Predictive Failure Count: 0
  Link Speed: 6.0 Gb/s
  Interface Type: SATA
  Media Type: HDD
  Block Size: 512
  Block Count: 1953525168
  Raw Size: 953869 MB
  Non Coerced Size: 953357 MB
  Coerced Size: 952720 MB
  SAS Address 0: 4433221100000000
  SAS Address 1:
  Connected Port 0:
  Connected Port 1:
  Connected Port 2:
  Connected Port 3:
  Connected Port 4:
```

This example provides status information about the physical drive number 1 on the storage card named SLOT-5:

```
Server# scope chassis
Server /chassis # scope storageadapter SLOT-5
Server /chassis/storageadapter # scope physical-drive 1
Server /chassis/storageadapter/physical-drive # show status
Slot Number 1:
  Controller: SLOT-5
  State: system
  Online: true
  Fault: false
```

Viewing Virtual Drive Properties



Note

This procedure is applicable to E-Series Servers and the SM E-Series NCE. This procedure is not applicable to the EHWIC E-Series NCE and the NIM E-Series NCE.

Procedure

	Command or Action	Purpose
Step 1	Server# scope chassis	Enters the chassis command mode.
Step 2	Server /chassis # scope storageadapter SLOT-5	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 power supply properties:

```

Server# scope chassis
Server /chassis # scope storageadapter SLOT-5
Server /chassis/storageadapter # show virtual-drive
Virtual Drive  Status          Name                               Size      RAID Level
-----
0              Optimal
571250 MB    RAID 1

Server /chassis/storageadapter # show virtual-drive-count
PCI Slot SLOT-5:
  Virtual Drive Count: 1
  Degraded Virtual Drive Count: 0
  Offline Virtual Drive Count: 0
Server /chassis/storageadapter # scope virtual-drive 0
Server /chassis/storageadapter/virtual-drive # show physical-drive
Span  Physical Drive Status    Starting Block Number Of Blocks
-----
0     2                online      0          1169920000
0     1                online      0          1169920000

```

Viewing PCI Adapter Properties

**Note**

This procedure is applicable to E-Series Servers and the SM E-Series NCE. This procedure is not applicable to the EHWIC E-Series NCE and the NIM E-Series NCE.

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
Name          Slot  Vendor ID  Device ID  Product Name
-----
PCIe Adapter1  1     0x1137    0x0042    Cisco UCS P81E Virtual...
PCIe Adapter2  5     0x1077    0x2432    Qlogic QLE2462 4Gb dua...

Server /chassis #
```

Viewing Power Policy Statistics

Procedure

	Command or Action	Purpose
Step 1	Server# show power-cap [detail]	Displays the server power consumption statistics and the power cap policy.

The displayed fields are described in the following table:

Name	Description
Current Consumption	The power currently being used by the server, in watts.
Maximum Consumption	The maximum number of watts consumed by the server since the last time it was rebooted.
Minimum Consumption	The minimum number of watts consumed by the server since the last time it was rebooted.

This example displays the detailed power statistics for a single-wide E-Series Server:

```
Server# scope power-cap
Server /power-cap # show detail
Cur Consumption (W): 36.10 W
Max Consumption (W): 075
Min Consumption (W): 36.10 W
Server /power-cap #
```

This example displays the detailed power statistics for a double-wide E-Series Server:

```
Server# scope power-cap
Server /power-cap # show detail
  Cur Consumption (W): 43.1 W
  Max Consumption (W): 160
  Min Consumption (W): 43.1 W
Server /power-cap #
```

Viewing Hard Drive Presence

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 hdd	Displays the hard drives.

This example displays power supply properties:

```
Server# scope chassis
Server /chassis # show hdd
  Name                Status
-----
HDD1_PRS              inserted
HDD2_PRS              inserted
HDD3_PRS              inserted
```

Viewing the MAC Address of an Interface

You can view the system defined interface names and the MAC address that is assigned to each host interface.

Procedure

	Command or Action	Purpose
Step 1	Server# scope cimc	Enters CIMC command mode.
Step 2	Server /cimc # scope network	Enters network command mode.
Step 3	Server /cimc/network # show lom-mac-list [detail]	Displays the system defined interface names and the MAC address that is assigned to each host interface.

This example shows how to display the system defined interface names and the MAC address that is assigned to each host interface:

```
Server# scope cimc
Server /cimc # scope network
Server /cimc/network # show lom-mac-list
Interface                               MAC Address
-----
Console                                00:24:c4:f4:89:ee
GE1                                     00:24:c4:f4:89:ef
GE2                                     00:24:c4:f4:89:f0
GE3                                     00:24:c4:f4:89:f1
```

Viewing the Status of CIMC Network Connections

Before You Begin

You must log in as a user with admin privileges to view the status of the CIMC network connections; whether the link is detected (physical cable is connected to the network interface) or not detected.

Procedure

	Command or Action	Purpose
Step 1	Server# scope cimc	Enters CIMC command mode.
Step 2	Server /cimc # scope network	Enters CIMC network command mode.
Step 3	Server /cimc/network # show link state [detail]	Displays the status of the CIMC network connections; whether the link is detected (physical cable is connected to the network interface) or not detected.

This example displays the status of the CIMC network connections:

```
Server# scope cimc
Server /cimc # scope network
Server /cimc/network # show link state
Interface                               State
-----
Console                                Link Detected
GE1                                     No Link Detected
GE2                                     No Link Detected
GE3                                     No Link Detected
Dedicated                              Link Detected

Server /cimc/network # show link-state detail
Link State:
  Interface: Console
  State: Link Detected
Link State:
  Interface: GE1
  State: No Link Detected
Link State:
  Interface: GE2
  State: No Link Detected
Link State:
  Interface: GE3
  State: No Link Detected
Link State:
  Interface: Dedicated
```

State: Link Detected

