

Chapter 13

Monitoring the System with the SRC CLI

This chapter describes how to monitor the C-series controller with the SRC CLI. Topics include:

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- Viewing Information About Security Certificates with the SRC CLI on page 91

Viewing Information About the System with the SRC CLI

To view information about a C-series controller:

```
user@host> show system information
System Identification
Hostname           my-server
Manufacturer       Juniper Networks
Product Name       SDX-2000
Version            1.0
Serial Number      0207082006000001
UUID               48384441-5254-0030-4859-0030485977EE
Hostid             e30a2e07
Software version   SRC-PE Release 7.0 [A.7.0.0-151]

System Time
Current time       2007-01-02 17:29:19 EST
Uptime            15 days, 1:07
Number of active users  3
Load Averages (1m/5m/15m) 0.23/0.22/0.14

Memory
Total 15G
Free 12G

CPU Info
Number of CPU 4
CPU Model         Dual Core AMD Opteron(tm) Processor 265
Clock Speed       1804.132 MHz
```

Disk Information

Mountpoint	Total	Used	Use%
/	2015M	956M	47%
/altroot	2015M	35M	1%
/altvar	29G	75M	0%
/boot	98M	14M	14%
/var	31G	216M	0%

Temperature

System +23 C
 CPU-1 +33 C
 CPU-2 +35 C

Fan speed

Fan-1 9375 RPM
 Fan-2 9375 RPM

Viewing Information About Components Installed with the SRC CLI

To view release and status information for SRC components installed on a system:

```

user@host> show component
Installed Components
Name      Version                                     Status
cli       Release: 7.0 Build: CLI.A.7.0.0.0171    running
acp       Release: 7.0 Build: ACP.A.7.0.0.0174    disabled
jdb       Release: 7.0 Build: DIRXA.A.7.0.0.0176  running
editor    Release: 7.0 Build: EDITOR.A.7.0.0.0176 running
redir     Release: 7.0 Build: REDIR.A.7.0.0.0176  disabled
licSvr    Release: 7.0 Build: LICSVR.A.7.0.0.0179  stopped
nic       Release: 7.0 Build: GATEWAY.A.7.0.0.0170 disabled
sae       Release: 7.0 Build: SAE.A.7.0.0.0166    running
www       Release: 7.0 Build: UMC.A.7.0.0.0169    disabled
jps       Release: 7.0 Build: JPS.A.7.0.0.0172    disabled
agent     Release: 7.0 Build: SYSMAN.A.7.0.0.0174  running
webadm    Release: 7.0 Build: WEBADM.A.7.0.0.0173  disabled
    
```

Table 21 describes the output fields for the `show component` command. Output fields are listed in the order in which they appear.

Table 21: show component Output Fields

Field Name	Field Description
Name	Name of the component
Version	Version of the component
Status	State of the component, running or disabled

Viewing Information About Boot Messages with the SRC CLI

If you encounter system problems in a C-series controller after you start the system, you can view information about the boot process.

To view messages generated during system boot:

```
user@host> show system boot-messages

Bootdata ok (command line is ro root=/dev/vg0/root console=tty0
console=ttyS0,96
00)
Linux version 2.6.9-42.0.3.ELsmp (buildcentos@x8664-build.centos.org) (gcc
versi
on 3.4.6 20060404 (Red Hat 3.4.6-3)) #1 SMP Fri Oct 6 06:28:26 CDT 2006
BIOS-provided physical RAM map:
  BIOS-e820: 0000000000000000 - 000000000009ac00 (usable)
  BIOS-e820: 000000000009ac00 - 00000000000a0000 (reserved)
  BIOS-e820: 00000000000ea070 - 0000000000100000 (reserved)
  BIOS-e820: 0000000000100000 - 00000000dffc0000 (usable)
  BIOS-e820: 00000000dffc0000 - 00000000dffc0000 (ACPI data)
  BIOS-e820: 00000000dffc0000 - 00000000dfff0000 (ACPI NVS)
  BIOS-e820: 00000000dfff0000 - 00000000e0000000 (reserved)
  BIOS-e820: 00000000fec00000 - 00000000fec86000 (reserved)
  BIOS-e820: 00000000fee00000 - 00000000fee01000 (reserved)
  BIOS-e820: 00000000ffb00000 - 0000000100000000 (reserved)
  BIOS-e820: 0000000100000000 - 0000000220000000 (usable)
ACPI: RSDP (v000 ACPIAM ) @
0x000000000000f7760
ACPI: RSDT (v001 A M I OEMRSDT 0x03000529 MSFT 0x00000097) @
0x00000000dffc000
0
ACPI: FADT (v002 A M I OEMFACP 0x03000529 MSFT 0x00000097) @
0x00000000dffc020
0
ACPI: MADT (v001 A M I OEMAPIC 0x03000529 MSFT 0x00000097) @
0x00000000dffc039
0
ACPI: OEMB (v001 A M I AMI_OEM 0x03000529 MSFT 0x00000097) @
0x00000000dffc04
0
ACPI: DSDT (v001 DVLG2 DVLG2007 0x00000007 INTL 0x02002026) @
0x0000000000000000
0
No NUMA configuration found
Faking a node at 0000000000000000-0000000220000000
Bootmem setup node 0 0000000000000000-0000000220000000
No mptable found.
On node 0 totalpages: 2228224
  DMA zone: 4096 pages, LIFO batch:1
  Normal zone: 2224128 pages, LIFO batch:16
  HighMem zone: 0 pages, LIFO batch:1
DMI 2.3 present.
ACPI: PM-Timer IO Port: 0x408
ACPI: Local APIC address 0xfe00000
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
Processor #0 15:4 APIC version 16
ACPI: LAPIC (acpi_id[0x02] lapic_id[0x06] enabled)
Processor #6 15:4 APIC version 16
ACPI: LAPIC (acpi_id[0x03] lapic_id[0x01] enabled)
Processor #1 15:4 APIC version 16
ACPI: LAPIC (acpi_id[0x04] lapic_id[0x07] enabled)
```

```

Processor #7 15:4 APIC version 16
Setting APIC routing to flat
ACPI: IOAPIC (id[0x08] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 8, version 32, address 0xfec00000, GSI 0-23
ACPI: IOAPIC (id[0x09] address[0xfec10000] gsi_base[24])
IOAPIC[1]: apic_id 9, version 32, address 0xfec10000, GSI 24-4
ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
ACPI: IRQ0 used by override.
ACPI: IRQ2 used by override.
ACPI: IRQ9 used by override.
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at e2000000 (gap: e0000000:1ec00000)
Checking aperture...
Built 1 zonelists
Kernel command line: ro root=/dev/vg0/root console=tty0 console=ttyS0,9600
Initializing CPU#0
PID hash table entries: 4096 (order: 12, 131072 bytes)
time.c: Using 3.579545 MHz PM timer.
time.c: Detected 3200.267 MHz processor.
Console: colour VGA+ 80x25
Dentry cache hash table entries: 2097152 (order: 12, 16777216 bytes)
Inode-cache hash table entries: 1048576 (order: 11, 8388608 bytes)
Placing software IO TLB between 0x28c1000 - 0x68c1000
Memory: 8168568k/8912896k available (2106k kernel code, 0k reserved, 1297k
data,
 196k init)
Calibrating delay using timer specific routine.. 6406.43 BogoMIPS
(lpj=3203218)
Security Scaffold v1.0.0 initialized
SELinux: Initializing.
SELinux: Starting in permissive mode
There is already a security framework initialized, register_security failed.
selinux_register_security: Registering secondary module capability
Capability LSM initialized as secondary
Mount-cache hash table entries: 256 (order: 0, 4096 bytes)
CPU: Trace cache: 12K uops, L1 D cache: 16K
CPU: L2 cache: 2048K
using mwait in idle threads.
CPU0: Initial APIC ID: 0, Physical Processor ID: 0
Using IO APIC NMI watchdog
CPU: Trace cache: 12K uops, L1 D cache: 16K
CPU: L2 cache: 2048K
CPU0: Initial APIC ID: 0, Physical Processor ID: 0
CPU0: Intel(R) Xeon(TM) CPU 3.20GHz stepping 03
per-CPU timeslice cutoff: 705.82 usecs.
task migration cache decay timeout: 1 msecs.
Booting processor 1/6 rip 6000 rsp 10006945f58
Initializing CPU#1
Calibrating delay using timer specific routine.. 6399.38 BogoMIPS
(lpj=3199690)
CPU: Trace cache: 12K uops, L1 D cache: 16K
CPU: L2 cache: 2048K
CPU1: Initial APIC ID: 6, Physical Processor ID: 3
Intel(R) Xeon(TM) CPU 3.20GHz stepping 03
Booting processor 2/1 rip 6000 rsp 1000697df58
Initializing CPU#2
Calibrating delay using timer specific routine.. 6399.32 BogoMIPS
(lpj=3199664)
CPU: Trace cache: 12K uops, L1 D cache: 16K
CPU: L2 cache: 2048K

```

Viewing Information About Security Certificates with the SRC CLI

To view information about security certificates that reside on the system:

```
user@host> show security certificate
web subject:CN=myhost
CAcert1 subject:CN=myhost
```

If no security certificates reside on the system, the CLI return a message to that effect:

```
user@host> show security certificate
No entity certificates in key store
```

