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## Linux Check The Health of Adaptec RAID array

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**Q.** How do I check the health of Adaptec RAID array under Fedora / CentOS / Red Hat Enterprise Linux / Debian / Ubuntu Linux server from a shell prompt?

**A.** First, visit official [Adaptec](#) <sup>[2]</sup> web site to download utilities. You can also install utility software from CD / Floppy disk. Install the rpm file.



[1]

## arccnf command

To view and modify other RAID configuration use arccnf program to view health of RAID array. Simply, login as the root and type the following command at a shell prompt:

```
# /usr/StorMan/arccnf getconfig 1
```

Sample output:

```
Controllers found: 1
-----
Controller information
-----
Controller Status           : Optimal
Channel description         : SAS/SATA
Controller Model            : Adaptec 3405
Controller Serial Number    : 7C2110BD455
Physical Slot               : 3
Temperature                 : 49 C/ 120 F (Normal)
Installed memory            : 128 MB
Copyback                   : Disabled
Background consistency check : Disabled
Automatic Failover         : Enabled
Defunct disk drive count    : 0
Logical devices/Failed/Degraded : 1/0/0
-----
Controller Version Information
-----
BIOS                       : 5.2-0 (15753)
Firmware                   : 5.2-0 (15753)
Driver                     : 1.1-5 (2453)
Boot Flash                 : 5.2-0 (15753)
-----
Controller Battery Information
-----
Status                     : Optimal
Over temperature           : No
Capacity remaining         : 99 percent
Time remaining (at current draw) : 3 days, 0 hours, 52 minutes
-----
Logical device information
-----
Logical device number 0
Logical device name         : RAID10
RAID level                  : 10
Status of logical device    : Optimal
Size                       : 279800 MB
Stripe-unit size           : 256 KB
Read-cache mode             : Enabled
```

```

Write-cache mode           : Enabled (write-back)
Write-cache setting        : Enabled (write-back) when protected by batter
Partitioned                : Yes
Protected by Hot-Spare     : No
Bootable                   : Yes
Failed stripes             : No
-----

```

#### Logical device segment information

```

-----
Group 0, Segment 0        : Present (0,0) 3LN3BY8Q00009823KDMV
Group 0, Segment 1        : Present (0,1) 3LN3V6AQ00009829MMLC
Group 1, Segment 0        : Present (0,2) 3LN1AYYD00009747RGSB
Group 1, Segment 1        : Present (0,3) 3LN2GAEC00009813AQW6
-----

```

#### Physical Device information

##### Device #0

```

Device is a Hard drive
State                   : Online
Supported               : Yes
Transfer Speed          : SAS 3.0 Gb/s
Reported Channel,Device : 0,0
Reported Location       : Enclosure 0, Slot 0
Reported ESD            : 2,0
Vendor                  : SEAGATE
Model                   : ST3146855SS
Firmware                : 0002
Serial number           : 3LN3BY8Q00009823KDMV
World-wide name         : 5000C50007BCFA20
Size                    : 140014 MB
Write Cache             : Enabled (write-back)
FRU                     : None
S.M.A.R.T.              : No

```

##### Device #1

```

Device is a Hard drive
State                   : Online
Supported               : Yes
Transfer Speed          : SAS 3.0 Gb/s
Reported Channel,Device : 0,1
Reported Location       : Enclosure 0, Slot 1
Reported ESD            : 2,0
Vendor                  : SEAGATE
Model                   : ST3146855SS
Firmware                : 0002
Serial number           : 3LN3V6AQ00009829MMLC
World-wide name         : 5000C50002F017B8
Size                    : 140014 MB
Write Cache             : Enabled (write-back)
FRU                     : None
S.M.A.R.T.              : No

```

##### Device #2

```

Device is a Hard drive
State                   : Online
Supported               : Yes
Transfer Speed          : SAS 3.0 Gb/s
Reported Channel,Device : 0,2
Reported Location       : Enclosure 0, Slot 2
Reported ESD            : 2,0
Vendor                  : SEAGATE
Model                   : ST3146855SS
Firmware                : 0002
Serial number           : 3LN1AYYD00009747RGSB
World-wide name         : 5000C50005020B14
Size                    : 140014 MB
Write Cache             : Enabled (write-back)
FRU                     : None
S.M.A.R.T.              : No

```

##### Device #3

```

Device is a Hard drive

```

```
State : Online
Supported : Yes
Transfer Speed : SAS 3.0 Gb/s
Reported Channel,Device : 0,3
Reported Location : Enclosure 0, Slot 3
Reported ESD : 2,0
Vendor : SEAGATE
Model : ST3146855SS
Firmware : 0002
Serial number : 3LN2GAEC00009813AQW6
World-wide name : 5000C50007BD43C0
Size : 140014 MB
Write Cache : Enabled (write-back)
FRU : None
S.M.A.R.T. : No
Device #4
Device is an Enclosure services device
Reported Channel,Device : 2,0
Enclosure ID : 0
Type : SES2
Vendor : ADAPTEC
Model : Virtual SGPIO 0
Firmware : 0001
Status of Enclosure services device
Temperature : Normal
```

Command completed successfully.

Where,

- 1: Controller number

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[1] Image: <http://www.cyberciti.biz/faq/faq/category/bash-shell/>

[2] Adaptec: <http://www.adaptec.com/en-US/support/raid/>