

Frequently Asked Questions

Question

Raid monitor 2 FreeBSD

Answer

```
>= 8 B > @ 8 = 3 @ 5 9 4 > 2 = 0 FreeBSD C < > ; G 0 ; L = > > B A C B A B 2 C 5 B,
5 A ; 8 2 K = 5 8 A ? > ; L 7 C 5 B 5 @ > 4 = K 5 ? 0 : 5 B K > B ? @ > 8 7 2 > 4 8 B 5 ; O,
A 5 3 > A 0 9 B 0 8 ; 8 4 8 A : 0. > 2 > B B 0 : > 5 1 K 2 0 5 B 4 > 2 > ; L = > @ 5 4 : >,
? > A 5 < C 2 > B > B A N 4 0 O 2 7 O ; A ? 8 A > : C < = K E A ; > 2:
```

FreeBSD gmirror software raid 2 A : @ 8 ? B 0:

```
#!/bin/sh
```

```
#####
=====
```

```
# Copyright (c) 2007, Netstream AG# Author: Nico Schottelius
<nico-freebsd-raid-monitoring <at> schottelius.org># Created: 2007-04-23
# Description: Display state of all gmirror devices# Created-by:
/home/user/nico/firmen/netstream/sh/neues_skript.sh
```

```
#####
=====
```

```
gmirror list |
    awk -F: 'BEGIN { print "gmirror devices";
                    print "-----";
                    }
              /^Geom name:/ {
                    name=$2
                    }
              /^State:/ {
                    print name ":" $2
                    }'
```

```
4 ; O : @ > = 0:
```

```
#!/bin/sh
```

```
#####
```

```
# Copyright (c) 2007, Netstream AG# Author: Nico Schottelius schottelius.org># Created: 2007-04-23# Description: Report broken
devices.# Created-By: /home/user/nico/firmen/netstream/sh/neues_skript.sh
```

```
#####
```

```
check=&#036;(dirname &#036;0)/cfs_gmirror.sh
```

```
# Skip first two lines: header
```

```
"&#036;check" | awk -F": " 'BEGIN { getline; getline } &#036;2 !~ /COMPLETE/ { print &#036;1 ":" &#036;2 }'
```

LSI / Symbios Megaraid (amr driver):

```
A ? > ; L 7 C 5 B A O 2 C B 8 ; 8 B K, megarc ( 7 0 : @ K B 2 ? > @ B 0 E ? > 1 @ > : 5 =) 8
amrstat (sysutils/amrstat)
! : @ 8 ? B 4 ; O amrstat = 5 = C 6 5 =, > = > A 0 < > ? @ 8 7 0 ? C A : 5 2 K 4 0 5 B 2 A 5
8 = B 5 @ 5 A C N I 8 5 4 0 = = K 5, ? > 2 B > @ > 9 5 A B L 2 A : @ 8 ? B 0:

#!/bin/sh -f
#
# Check status of RAID volumes on amr(4) controllers using the LSI MegaRC
# utility. If any logical drive has a status other than OPTIMAL, or any
# physical disks has a status other than ONLINE, display the full status
# for the adapter. If more than one adapter exists, add additional unit
# numbers to the adapters.
#
# the adapters;
#
adapters=""

for adapter in the adapters; do
    status=`/usr/local/sbin/megarc -ldinfo -a the adapter } -Lall -nolog \
        /usr/bin/sed '1, the adapters; s/
    /' \
        /usr/bin/sed '1,/Information Of Logical Drive/d' \
        echo "Failed to get RAID status for AMR adapter the adapter }"

    echo " the adapter { status }" \
        /usr/bin/egrep '^ Logical Drive : .*: Status: . the adapter { ' \
        /usr/bin/egrep -qv 'OPTIMAL the adapter { '
    drives= the adapter { ?

    echo " the adapter { status }" \
        /usr/bin/egrep '^ [0-9]+' \
        /usr/bin/egrep -qv 'ONLINE the adapter { '
    disks= the adapter { ?

    if [ the adapter { drives } -ne 1 -o the adapter { disks } -ne 1 ]; then
        echo ""
        echo "AMR RAID status (adapter the adapter { }):"
        echo " the adapter { status }"
    fi
done

#!/bin/sh -f
#
```

```
# Display status of RAID volumes on amr(4) controllers using the LSI MegaRC
# utility. If more than one adapter exists, add additional unit numbers to
# &#036;adapters.
#
# &#036;ld&#036;
#
```

```
# If there is a global system configuration file, suck it in.
#
if [ -r /etc/defaults/periodic.conf ]; then
    . /etc/defaults/periodic.conf
    source_periodic_confs
fi
```

```
adapters="0"
```

```
rc=0
case "&#036;{ daily_amr_status_enable:-YES }" in
    [Nn][Oo])
        ;;
    *)
        for adapter in &#036;adapters; do
            echo ""
            echo "AMR RAID status (adapter &#036;{ adapter }):"
            /usr/local/sbin/megarc -ldinfo -a&#036;{ adapter } -Lall -nolog \
            sed '1,/Information Of Logical Drive/d' || rc=&#036;?
        done
        ;;
esac

exit "&#036;rc"
```

```
> @ 838=0;5 ? @ 8ACBAB2C5B=0?> <8=0=85, GB>
:>?8 @>20=85 87 2=5H=8E 8AB>G=8:>2=0? @O<CN 2 D09;
A: @ 8?B0=0 D@OE <>65B 2K720BL CAB0=>2:C 2 :>=F5 :064>9
AB @>:8^M, :>B>@CN=04> C1 @0BL, 8=0G5 MB> 1C45B <5H0BL
? @028;L=>9 @01>B5 A: @ 8?B0. >>115-B> MB>=04> 1K 7=0BL
704>;3> 4> B>3> :0: 709<5B5AL A: @ 8?B0<8 2>>115...
```

mpt

```
> @ 838=0;L=>9 AAK;:5=0?8A0=> GB> ?>445 @ 6:8 2 FreeBSD
4;O MB>3> B8?0=5B, 0 2;8=CE0E MB> ? @>45;K205BAO
?>A @ 54AB2>< CB8;:8 mpt-status 8;8 <>4C;O O4 @ 0 mptctl. C
?>A<>B @ 8B5, 5A;8 C 20A B0:>9 @ 594, <>65B ?>445 @ 6:0 8
?>O28;0AL. ;NG52K5 A;>20 O 40;.
```

ciss

```
7 2 5 A B = K 5 C B 8 ; 8 B K: camcontrol 8 hpacucli
> hpacucli 8 4 5 B > B ? @ 0 2 : 0 = 0          A 0 9 B , 3 4 5 ? @ 5 4 ; 0 3 0 5 B A O 8
2 K ? 0 A 0 B L A O 4 0 ; L H 5, camcontrol > ? 8 A 0 =          B C B 8 @ 0 1 > B 0 5 B A 0 < ? >
A 5 1 5 : > < 0 = 4 = > 9 A B @ > : > 9.
```

3ware raid: twa/twe

```
4 5 B 5 2 ? > @ B K 2 sysutils/3dm, A B 0 2 8 B 5 M B C H B C : C 8 > 1 = 0 @ C 6 8 2 0 5 B 5
G B > C = 5 5 2 ? > ; = 5 A 5 1 5 2 5 1 8 = B 5 @ D 5 9 A, 5 < 5 9 ; K 8
2 A 5 B 0 : > 5 ? @ > G 5 5. ? > ; = 5 A 0 < > 4 > A B 0 B > G = 0 O A > D B 8 = : 0.
```

ataraid

```
- B > 4 @ 0 9 2 5 @ 4 ; O < = > 6 5 A B 2 0 B 8 ? > 2 @ 5 9 4 > 2, A > 7 4 0 5 B 4 5 2 0 9 A K ar
8 A : @ 8 ? B : = 5 < C 2 > B B 0 : > 9:
```

```
#!/bin/sh
```

```
# raid_status - check the state of the RAID.
```

```
# This script works for various types of RAID devices. (Currently, 3Ware,
# gmirror, BSd 'ar0' raids, zpool)
# WARNING: Install the proper CLI program for your 3ware card, if you use 3ware.
```

```
# Set up a cronjob like this:
# */16 * * * * /home/rudy/bin/raid_status CRON
```

```
#### Copyright (c) 2006, Rudy Rucker All rights reserved.
#### Redistribution and use of script, with or without modification, is
#### permitted provided that the following condition is met:
####   Redistributions of source code must retain the above copyright
####   notice, this list of conditions and the following disclaimer.
#### THIS SOFTWARE IS PROVIDED BY AUTHOR AND CONTRIBUTORS ``AS IS" AND
#### ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
#### IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
#### ARE DISCLAIMED.
```

```
# ----- Change Log -----
# Mon Oct 11 15:20:37 PDT 2004 - rudy
# Original script.
# Tue Feb 7 01:28:07 PST 2006 - rudy
# Added 9500 and 9550 support
# Fri Jun 9 10:38:33 PDT 2006 - rudy
# works for 'ar' and 'tw' mirrored arrays
# Tue Sep 12 10:23:13 PDT 2006 - rudy
```

```
# Added gmirror and realized that not all 3ware's are the same...
# Fri Jan 18 00:46:13 PST 2008 - rudy
# going to add support for multiple geom mirrors. gm0s1, gm0s2, etc...
# Fri Jan 18 01:03:25 PST 2008 - rudy
# added zpool status checking. untested
# Fri Jan 18 01:23:54 PST 2008
# can check machines with multiple array types... got zfs and gmirror?
# tested a machine with zfs and gmirror
# -----
```

```
MODE=&#036;1
```

```
TWCLI="/usr/local/bin/tw_cli"
```

```
GMIRROR="/sbin/gmirror"
```

```
ATACONTROL="/sbin/atacontrol"
```

```
AWK="/usr/bin/awk"
```

```
GREP="/usr/bin/grep"
```

```
MAIL="/usr/bin/mail"
```

```
SORT="/usr/bin/sort"
```

```
ZPOOL="/sbin/zpool"
```

```
EMAIL="noc@example.com"
```

```
STATUS="none_tested"
```

```
report_status () {
```

```
    # Okay, we checked the raid status and know what the return code should be.
```

```
    if [ "&#036;STATUS" = "&#036;VALID" ]; then
```

```
        if [ "&#036;MODE" != "CRON" ]; then
```

```
            echo "OK condition";
```

```
            &#036;ESTATUS_CMD
```

```
            echo
```

```
        fi
```

```
    else
```

```
        # ERROR! Either print to TTY or send an email, based on MODE (which is arg[1])
```

```
        if [ "&#036;MODE" = "CRON" ]; then
```

```
            &#036;ESTATUS_CMD | &#036;MAIL -s "[ERROR] Raid array on &#036;HOST returned &#036;STATUS" &#036;EMAIL
```

```
        else
```

```
            echo "ERROR condition"
```

```
            &#036;ESTATUS_CMD
```

```
        fi
```

```
    fi
```

```
    STATUS="UNKNOWN"
```

```
}
```

```
# if this is not a 3ware card, check the atacontol
```

```
if [ -c /dev/twed0 ] && [ -x &#036;TWCLI ]; then
    # Tested: 3ware card ... 8000 series
    STATUS=`&#036;TWCLI info c0 u0 | &#036;GREP "^Status" | &#036;AWK { 'print &#036;2' }`;
    VALID='OK'
    ESTATUS_CMD="&#036;TWCLI info c0 u0";
    # double check the 3ware output incase it returned nada...
    # Umm... this is the only raid card I have witness this bug
    if [ "X&#036;STATUS" = "X" ]; then
        sleep 1;
        STATUS=`&#036;TWCLI info c0 u0 | &#036;GREP "^Status" | &#036;AWK { 'print &#036;2' }`;
    fi
    report_status
elif [ -c /dev/da0 ] && [ -x &#036;TWCLI ]; then
    # Note, there are plenty of other device names that use da0...
    # if you have the TWCLI installed, assume da0 is a RAID.
    # Tested: 3ware 9550SX, 9500S, 9650
    STATUS=`&#036;TWCLI info c0 | &#036;GREP "^u0" | &#036;AWK '{ print &#036;3 }';
    VALID='OK'
    ESTATUS_CMD="&#036;TWCLI info c0 u0"
    report_status
fi
if [ -d /dev/mirror ] && [ -x &#036;GMIRROR ]; then
    # gmirror /dev/mirror/gm0 gm0s1 gm0s2 etc...
    # the 'sort -u' allows this to test multiple arrays. Neat hack.
    STATUS=`&#036;GMIRROR status | &#036;GREP "^mirror" | &#036;AWK { 'print &#036;2' } | &#036;SORT -u`;
    VALID='COMPLETE'
    ESTATUS_CMD="&#036;GMIRROR list";
    report_status
fi
if [ -c /dev/ar0 ] && [ -x &#036;ATACONTROL ]; then
    # Motherboard promise and others
    STATUS=`&#036;ATACONTROL status ar0 | &#036;GREP "status" | &#036;AWK -F 'status: ' '{ print &#036;2 }';
    VALID='READY'
    ESTATUS_CMD="/sbin/atacontrol status ar0"
    report_status
fi
if [ -c /dev/zfs ] && [ -x &#036;ZPOOL ]; then
    # Tested: zpool mirror on FreeBSD 7.0
    STATUS=`&#036;ZPOOL status -x`;
    VALID='all pools are healthy'
    ESTATUS_CMD="&#036;ZPOOL status -v";
    report_status
fi
if [ "&#036;STATUS" = "none_tested" ]; then
    echo "Unknown Raid type.... ";
    if [ -x &#036;TWCLI ]; then
        echo " + found &#036;TWCLI";
```

```
else
    echo " - can't exec &#036;TWCLI";
fi
if [ -x &#036;ATACONTROL ]; then
    echo " + found &#036;ATACONTROL";
else
    echo " - can't exec &#036;ATACONTROL";
fi
if [ -x &#036;ZPOOL ]; then
    echo " + found &#036;ZPOOL";
else
    echo " - can't exec &#036;ZPOOL";
fi
if [ -x &#036;GMIRROR ]; then
    echo " + found &#036;GMIRROR";
else
    echo " - can't exec &#036;GMIRROR";
fi
exit;
fi
```

Areca: arcmsr

```
- B 0 H B C : 0 8 < 5 5 B A 2 > 9 R G 4 5 ? > @ B ? > < = 5 = 8 N 0 2 B > @ 0 A B 0 B L 8 8 = 5
< > 6 5 B < > = 8 B > @ 8 B L A O = 8 : 0 . , : @ > < 5 7 0 : @ K B > 3 > A > D B 0 ,
: > B > @ K 9 2 K : 0 G 8 2 0 5 B A O A http://areca.com
```

asr

```
> = 8 B > @ 8 = 3 > A C I 5 A B 2 ; O 5 B A O ? @ 8 ? > < > I 8 asr-utils : > B > @ K 5
= 0 E > 4 O B A O = 0 D @ 5 H ? > @ B 0 E 2 > B B C B .
```

```
! > 1 A B 2 5 == > , ? > B > 9 A B 0 B L 5 8 2 A 5 , < = 5 ? > : 0 1 K ; > B > 6 5
4 > A B 0 B > G = > ? 5 @ 5 G 8 A ; 5 == > 3 > A ? 8 A : 0.
```

Details

Info Sunday 14 March 2010 - 16:44:40 by
