

????????

/etc/mdadm.conf????? (NOTE: ????????)

MAILADDR user@my.company.com

?? Raid ????

cat /proc/mdstat

?? /dev/md0 ????

mdadm --detail /dev/md0

/dev/md0:

Version : 1.2

Creation Time : Mon Nov 3 06:03:03 2014

Raid Level : linear

Array Size : 4194288 (4.00 GiB 4.29 GB)

Raid Devices : 2

Total Devices : 2

Persistence : Superblock is persistent

Update Time : Mon Nov 3 06:03:03 2014

State : clean

Active Devices : 2

Working Devices : 2

Failed Devices : 0

Spare Devices : 0

Rounding : 0K

Name : localhost.localdomain:0 (local to host localhost.localdomain)

UUID : a50ac9f2:62646d92:725255bd:7f9d30e3

Events : 0

Number	Major	Minor	RaidDevice	State
0	8	16	0	active sync /dev/sdb
1	8	32	1	active sync /dev/sdc

????

1. ?????????????? raid???? /dev/sdc, raid127
2. ?? mdadm ? raid127 ??? /dev/sdc
3. ??????????????
4. ?? fdisk ????? /dev/sdc ???
5. ?? mdadm ??? /dev/sdc ? raid127

// ?????? Fail

```
mdadm /dev/raid127 --fail /dev/sdc
```

```
// ????
```

```
mdadm /dev/raid127 --remove /dev/sdc
```

```
// ????
```

```
mdadm /dev/raid127 --add /dev/sdc
```

```
?? Raid ??
```

```
/proc/mdstat
```

```
# awk '/^md/ {printf "%s: ", $1}; /blocks/ {print $NF}' </proc/mdstat
```

```
md126: [UU]
```

```
md127: [UUUUU]
```

```
# watch -t 'cat /proc/mdstat'
```

```
iostat ????
```

```
# iotop -a -p $(sed 's, , -p ,g' <<<`pgrep "_raid|_resync|jbd2"`)
```

```
iostat ????
```

```
# iostat -dmy 1 /dev/md127
```

```
# iostat -dmy 1 /dev/md126
```

```
mdmonitor ??????
```

```
# mdadm --monitor --scan --oneshot --test
```

```
??????????
```

This is an automatically generated mail message from mdadm running on plinux.localdomain

A Fail event had been detected on md device /dev/md/pv00.

It could be related to component device /dev/sdc1.

Faithfully yours, etc.

P.S. The /proc/mdstat file currently contains the following:

Personalities : [raid1] [raid6] [raid5] [raid4]

```
md126 : active raid1 sda2[0] sdb2[1]
      1049536 blocks super 1.0 [2/2] [UU]
      bitmap: 0/1 pages [0KB], 65536KB chunk
```

```
md127 : active raid6 sda3[0] sdb3[1] sdc1[2](F) sde1[4] sdd1[3]
      2809500672 blocks super 1.2 level 6, 512k chunk, algorithm 2 [5/4] [UU_UU]
      bitmap: 0/1 pages [0KB], 65536KB chunk
```

```
unused devices: <none>
```

?? Raid

```
???????
```

```
# mdadm --stop /dev/md0
# mdadm --remove /dev/md0
```

```
?? raid
```

```
# mdadm --assemble /dev/md0
```

NOTE : The assemble command reads the /etc/mdadm.conf file to start the array. In case you did not save your configuration in mdadm.conf before stopping the array, this command would fail. You can use the below command to recreate the mdadm.conf file :

```
# mdadm -examine -scan > /etc/mdadm.conf
```

```
???????
```

```
??:
```

- ????????????
- ????????????

```
?? /etc/mdadm.conf???
```

```
PROGRAM /path/to/raid-event.sh
```

```
/path/to/raid-event.sh
```

```
#!/bin/bash
```

```
#
```

```
# mdadm RAID health check
```

```
#
```

```
# Events are being passed to xmessage via $1 (events) and $2 (device)
```

```
#
```

```
# Setting variables to readable values
```

```

event=$1
device=$2
# Check event and then popup a window with appropriate message based on event
if [ $event == "Fail" ];then
    message="A failure has been detected on device $device"
else
    if [ $event == "FailSpare" ]; then
        message="A failure has been detected on spare device $device"
    else
        if [ $event == "DegradedArray" ]; then
            message="A Degraded Array has been detected on device $device"
        else
            if [ $event == "TestMessage" ]; then
                message="A Test Message has been generated on device $device"
            fi
        fi
    fi
fi

```

```

output="/tmp/my.log"
echo "event=$event" > $output
echo "device=$device" >> $output
echo $message >> $output
echo "EOF" >> $output

```

??????????

????smartctl - [Test If Linux Server SCSI / SATA / SSD Hard Disk Going Bad](#)

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- <http://thegeekdiary.com/redhat-cento...id-with-mdadm/>
- <http://xmodulo.com/create-software-r...adm-linux.html>
- <https://www.cyberciti.biz/faq/centos...-create-raid1/>