

Configuration and Startup Files

Edit the md configuration file and add the MAILADDR and DEVICE lines at the bottom of the file:

```
# vi /etc/mdadm.conf
MAILADDR bbadmin@kuleuven.be
DEVICE partitions1
DEVICE /dev/md[0-2]
```

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

Edit mdadm.conf again, and remove the lines containing the devices tags, and move the definition for /dev/md4 to the bottom of the file.

Edit /etc/rc.d/rc.sysinit² to assemble and start the arrays listed in the standard config file at system startup time

```
# cp -p /etc/rc.d/rc.sysinit /etc/rc.sysinit.orig
# vi /etc/rc.d/rc.sysinit
replace
if [ -f /etc/raidtab ]; then
if [ -f /proc/mdstat -a -f /etc/raidtab ]; then
(...)
_RUN_QUOTACHECK=0
by
if [ -f /proc/mdstat -a -f /etc/mdadm.conf ]; then
    echo $"Starting up RAID devices: "

    /sbin/mdadm --assemble --scan
    RETURN=$?
    # A non-zero return means there were problems.
    if [ $RETURN -gt 0 ]; then
        echo
        echo
        echo $"*** An error occurred during the RAID startup"
        echo $"*** Dropping you to a shell; the system will reboot"
        echo $"*** when you leave the shell."

        PS1=$(RAID Repair)\# # "; export PS1
        sulogin

        echo $"Unmounting file systems"
        umount -a
        mount -n -o remount,ro /
        echo $"Automatic reboot in progress."
        reboot -f
    fi
fi

_RUN_QUOTACHECK=0

# cp -p /etc/rc.d/rc.sysinit /etc/rc.d/rc.sysinit.20060215
```

¹ This causes mdadm to read /proc/partitions and include all devices and partitions found there.

² Yeah. I know. Problem is that this file mounts the filesystems, so there really is no place else to do this.

Edit /sbin/halt.local to shutdown the arrays at system halt time.

```
# vi /sbin/halt.local
```

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

```
# source function library  
. /etc/rc.d/init.d/functions
```

```
PATH=/sbin:/usr/sbin:$PATH
```

```
RETVAL=0
```

```
prog=mdstat
```

```
# Sanity check.
```

```
[ -x /sbin/mdadm ] || exit 0
```

```
# Make sure configuration file exists and has information we can  
use
```

```
# MAILADDR or PROGRAM or both must be set in order to run mdadm --  
monitor
```

```
[ -f /etc/mdadm.conf ] || exit 0
```

```
grep '^\(MAILADDR\|PROGRAM\) .' /etc/mdadm.conf >/dev/null 2>&1 ||  
exit 0
```

```
echo -n $"Stopping $prog: "
```

```
/sbin/mdadm --stop --scan
```

```
RETVAL=$?
```

```
echo
```

```
exit $RETVAL
```