

Re: fsck fails during boot with 2.6.9–34.0.1.EL kernel because root filesystem is already rw mounted

## Re: fsck fails during boot with 2.6.9–34.0.1.EL kernel because root filesystem is already rw mounted

---

*Source:* <http://linux.derkeiler.com/Mailing-Lists/RedHat/2006-07/msg00013.html>

---

- *From:* "R. de Kuijer" <postmaster@xxxxxxxx>
  - *Date:* Mon, 03 Jul 2006 23:50:41 +0200
- 

Hello Floriola,

I think there was a little fault in building the new initrd.

The mount-command of the init-script is wrong and makes confusing, e.g. : first the root-filesystem must mount read/write, it accepts.

Then it must mount read/only, but refuses, because it is already mounted. (normally for remounting it should give the mount-command with option "-o remount,ro" )

And finally fsck should start to check the filesystem, but refuses because fsck cannot work with read/write mounted filesystems.

The result is this end of the boot-process :

```
/[FAILED]
```

```
*** An error occurred during the file system check.
```

```
*** Dropping you to a shell; the system will reboot
```

```
*** when you leave the shell.
```

```
*** Warning -- SELinux is active
```

```
*** Disabling security enforcement for system recovery.
```

```
*** Run 'setenforce 1' to reenable.
```

```
Give root password for maintenance
```

```
(or type Control-D to continue):/
```

When you give your root-passwd and type the next command:

```
# mount -t ext3 -o remount,rw /
```

```
# init 5
```

The system will continue to boot.

I think the best is to set everything right, e.g. :

– check the /etc/fstab (use option "defaults", other gives errors)

– /etc/grub.conf ( or lilo.conf )

– build a new initrd file with mkinitrd

( read carefully the boot-messages, mostly it gives good hints)

It should be work then.

Re: fsck fails during boot with 2.6.9–34.0.1.EL kernel because root filesystem is already rw mounted

Re: fsck fails during boot with 2.6.9-34.0.1.EL kernel because root filesystem is already rw mounted

If not, it is possible your MBR will not co-operate, and keeps his old settings.

Try to break the MBR and rebuild.

I have done it once as final solution with the install-dvd.

Greetings and success,

Ronno

Floriola wrote:

Hi Nitin,

Thanks for your answer. My /etc/fstab contains the following line for the root filesystem:

```
/dev/VolGroup00/LogVol01 / ext3 rw 1 1
```

However, I changed it to

```
/dev/VolGroup00/LogVol01 / ext3 defaults 1 1
```

and rebooted, but the same problem hapened.

It looks like in the early stage of the booting, when the kernel is using the initrd to load the modules, the /etc/fstab does not matter.

I still do not understand why in my new initrd file, with the new kernel, the root filesystem is nounted read-write, instead of read-only.

Regards,

Floriola

--- Nitin B <forumswatch@xxxxxxxxxx> wrote:

Boot your system in single user mode using new kernel and check /etc/fstab.

If it doesn't have default options edit it and add "defaults" . Oce this is done reboot.

On 25/06/06, Floriola <floriola2000@xxxxxxxxxx> wrote:

Hi,

I have a RHES4 server running kernel version 2.6.9-34.EL.

During this

night, I have updated to

latest kernel-2.6.9-34.0.1.EL. The problem is that with the

Re: fsck fails during boot with 2.6.9-34.0.1.EL kernel because root filesystem is already rw mounted

Re: fsck fails during boot with 2.6.9–34.0.1.EL kernel because root filesystem is already rw mounted

new kernel, my  
linux is not booting  
anymore. During the boot, I have the following error:

```
Checking root filesystem
[/sbin/fsck.ext3 (1) -- /] fsck.ext3 -a
/dev/VolGroup00/LogVol01
/dev/VolGroup00/LogVol01 is mounted. e2fsck: Cannot
continue, aborting.
```

[FAILED]

```
*** An error occurred during the file system check.
*** Dropping you to a shell; the system will reboot
*** when you leave the shell.
*** Warning -- SELinux is active
*** Disabling security enforcement for system recovery.
*** Run 'setenforce 1' to reenale.
Give root password for maintenance
(or type Control-D to continue):
```

Luckily, I still have the old kernel installed, so I booted with  
the old  
one, without any  
problems.

I dig a bit more, and I found the following:

In the old 2.6.9–34.EL kernel that I am able to boot with, the  
init script  
in the initrd contains  
the following mount command:

```
mount -o defaults --ro -t ext2 /dev/root /sysroot
```

while with the new kernel 2.6.9–34.0.1.EL that I have just  
installed, the  
init file in the initrd  
contains the following command:

```
mount -o rw --ro -t ext2 /dev/root /sysroot
```

So this is why with the new kernel, my root filesystem is  
already mounted  
read–write during the  
boot process, before the fsck.

However, this looks quite weird. First, I cannot find  
anywhere what this  
--ro means (there are no

Re: fsck fails during boot with 2.6.9–34.0.1.EL kernel because root filesystem is already rw mounted

Re: fsck fails during boot with 2.6.9-34.0.1.EL kernel because root filesystem is already rw mounted

info about this option in the man page). Most probably, it means that the filesystem should be mount read-only, but then why in the new kernel the mount command contains also "-o rw" option?

And why in the previous kernel, the root filesystem was mounted with the "-o defaults" option, and the new one is mounted with the "-o rw" option?

Any ideas?

Thank you in advance,

Floriola

---

Do You Yahoo!?  
Tired of spam? Yahoo! Mail has the best spam protection around  
<http://mail.yahoo.com>

--  
redhat-list mailing list  
unsubscribe  
<mailto:redhat-list-request@xxxxxxxxxx?subject=unsubscribe>  
<https://www.redhat.com/mailman/listinfo/redhat-list>

--  
redhat-list mailing list  
unsubscribe <mailto:redhat-list-request@xxxxxxxxxx?subject=unsubscribe>  
<https://www.redhat.com/mailman/listinfo/redhat-list>

---

Do You Yahoo!?  
Tired of spam? Yahoo! Mail has the best spam protection around <http://mail.yahoo.com>

--  
Ron de Kuijer  
Theraview Technology  
The Netherlands  
support@xxxxxxxxxxxxxx

Re: fsck fails during boot with 2.6.9-34.0.1.EL kernel because root filesystem is already rw mounted

Re: fsck fails during boot with 2.6.9-34.0.1.EL kernel because root filesystem is already rw mounted

--

redhat-list mailing list

unsubscribe <mailto:redhat-list-request@xxxxxxxxxx?subject=unsubscribe>

<https://www.redhat.com/mailman/listinfo/redhat-list>

Re: fsck fails during boot with 2.6.9-34.0.1.EL kernel because root filesystem is already rw mounted