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Subject: Running DRBD inside a VE?

Posted by [larsks](#) on Thu, 18 Jan 2007 02:13:11 GMT

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Is it possible to run DRBD inside a VE? The drbdsetup command is getting EPERM when trying to execute an ioctl on a disk device:

```
open("/dev/shared0", O_RDWR)      = 4
fstat64(4, {st_mode=S_IFBLK|0644, st_rdev=makedev(253, 7), ...}) = 0
open("/dev/shared0", O_RDWR)      = 5
fstat64(5, {st_mode=S_IFBLK|0644, st_rdev=makedev(253, 7), ...}) = 0
ioctl(3, 0x40204406, 0xbfeaacb0)  = -1 EPERM (Operation not permitted)
```

(/dev/shared0 is actually an LVM block device. The VE has read/write permissions to this device, and I can successfully create a filesystem on and mount the device itself)

Thanks,

-- Lars

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Subject: Re: Running DRBD inside a VE?

Posted by [dev](#) on Thu, 18 Jan 2007 10:13:06 GMT

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drbr\_ioctl() requires CAP\_SYS\_ADMIN capability:

```
+ if (!capable(CAP_SYS_ADMIN)
+     && cmd != DRBD_IOCTL_GET_CONFIG
+     && cmd != DRBD_IOCTL_GET_VERSION) {
```

you can:

1. add this cap to VE (insecure).
2. replace this if() in the code with

```
+ if (!capable(CAP_SYS_ADMIN) && !capable(CAP_VE_SYS_ADMIN) &&
+     && cmd != DRBD_IOCTL_GET_CONFIG
+     && cmd != DRBD_IOCTL_GET_VERSION) {
```

Thanks,  
Kirill

Lars Kellogg-Stedman wrote:

```
> Is it possible to run DRBD inside a VE? The drbdsetup command is
> getting EPERM when trying to execute an ioctl on a disk device:
>
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> (/dev/shared0 is actually an LVM block device. The VE has read/write  
> permissions to this device, and I can successfully create a filesystem  
> on and mount the device itself)  
>  
> Thanks,  
>  
> -- Lars

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Subject: Re: Running DRBD inside a VE?

Posted by [larsks](#) on Fri, 19 Jan 2007 16:04:26 GMT

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> 1. add this cap to VE (insecure).  
> 2. replace this if() in the code with...

Kirill,

Thanks for the pointer. (1) works fine for me since I'm creating development environments of which I'm the only user.

--

Lars Kellogg-Stedman <lars@larsshack.org>

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