
Subject: vfat filesystem support from inside VE
Posted by [ipcop1965](#) on Fri, 14 Dec 2007 22:54:13 GMT
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I saw that from inside VE there is support to mount the following filesystems:

```
[root@VE123 /]# cat /proc/filesystems
    ext2
    ext3
nodev  rpc_pipefs
nodev  autofs
nodev  proc
nodev  sysfs
nodev  tmpfs
nodev  devpts
```

I'd like to add support for vfat filesystem in order to mount an external lomega USB disk which I provided to VE by means of --devnodes option of vzctl:

```
[root@VE123 ~]# fdisk -l /dev/sda
```

```
Disk /dev/sda: 500.1 GB, 500107862016 bytes
255 heads, 63 sectors/track, 60801 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
```

```
   Device Boot      Start         End      Blocks   Id  System
/dev/sda1  *           1         60801   488384001  b   W95 FAT32
```

Is there any way to do that?

Many Thanks

FC

Subject: Re: vfat filesystem support from inside VE
Posted by [ugob](#) on Sat, 15 Dec 2007 16:52:06 GMT
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I think it would be simpler just to reformat the external drive in ext3.

What is the goal of having this external hdd? Backups?

Regards,

Ugo

Subject: Re: vfat filesystem support from inside VE
Posted by [ipcop1965](#) on Mon, 17 Dec 2007 14:03:16 GMT
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Of course I reformatted the external drive in ext3 and the problem was overtaken. But I'd like to better understand how openvz works because I used it on three production systems and worked very fine. I read on the manuals that it was possible to load iptables modules so I wondered if it was possible to do the same.

Thanks

FC

Subject: Re: vfat filesystem support from inside VE
Posted by [dev](#) on Wed, 19 Dec 2007 19:33:50 GMT
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it's possible to mark FAT filesystem_type in the code with flag FS_VIRTUALIZED and this fs (FAT) will become available for mounts from inside VE.

we probably need to implement some run-time configurable way nowadays...

Subject: Re: vfat filesystem support from inside VE
Posted by [novazur](#) on Fri, 12 Jun 2009 16:27:44 GMT
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nothing new about that ?

```
IMAGE=/install/images/ipcop-1.4.21-install-usb-fdd.i386.img;  mkdosfs -n IPCOPBOOT -F 16 -I
$IMAGE && for i in `seq 0 7`; do if (! losetup /dev/loop${i} >/dev/null 2>&1 ); then
LOOPDEV="/dev/loop${i}"; break; fi; done; losetup $LOOPDEV $IMAGE && mount -t vfat
$LOOPDEV /install/mnt && cp -R /install/cdrom/* /install/mnt && mv
/install/mnt/boot/isolinux/{instroot.gz,vmlinuz,f*\*.txt,memtest} /install/mnt && rm -rf /install/mnt/boot
&& cp /usr/src/config/kernel/syslinux.cfg /install/mnt/syslinux.cfg && umount /install/mnt &&
losetup -d $LOOPDEV && syslinux $IMAGE
mkdosfs 2.11 (12 Mar 2005)
mount: unknown filesystem type 'vfat'
make: *** [/usr/src/log/usb-key] Error 32
So I really need vfat in VE and I don't think bind mount can help me.
Is there a solution now ?
```

Subject: Re: vfat filesystem support from inside VE
Posted by [khorenko](#) on Sat, 13 Jun 2009 07:11:22 GMT
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Hi.

Well, we still have not implemented any run-time configurable way to provide the ability to mark FS as virtualized (on fully user's risk), thus if you want go this way, we'll have to recompile the kernel marking FAT fs virtualized (not so difficult really, if you'd like i can send you a patch).

But you also can go another way: you can use FUSE inside a Container and there exists 'fusefat' module which provides ability to work with fat fs.

http://wiki.openvz.org/Mounting_filesystems
<http://wiki.openvz.org/FUSE>
<http://sourceforge.net/projects/libfat/>

If you are going to try this way, please, share your experience after you make it working.

--
Konstantin

Subject: Re: vfat filesystem support from inside VE
Posted by [novazur](#) on Sat, 13 Jun 2009 07:13:42 GMT
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I'll try that (FUSE).
Thanks a lot.

Subject: Re: vfat filesystem support from inside VE
Posted by [novazur](#) on Sun, 14 Jun 2009 17:21:14 GMT
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I saw what you mean, but I'm not sure that's the good way, because I need vfat to use mkdosfs and I don't know if fuse is sufficient for that.
So, the solution may be the kernel patch (not sure), or simply not create usb-key and boot.img in ipcop
I'll try this last solution to see if I can even have the cd iso.
