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Subject: Mount in vps  
Posted by [dagr](#) on Wed, 04 Oct 2006 10:55:04 GMT  
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I tried to mount shared folder and got problem

```
created 1.mount  
mount -o bind,ro /vz/cow/distr /vz/root/$VEID/DISTR
```

```
and 1.umount  
umount /vz/root/$VEID/DISTR
```

VPS starts and stops ok and i can see thats it really mounts it, BUT!! Its not readonly for root inside VPS. Its the same like usual root - it can write anything disregard chmod attr. Same thing for VPS root - as soon as he can see this dir inside his filesystem - it can do anything with it (/vz/cow/distr) disregards permissions , etc. Is it bug or what?

2.6.9-023stab016.2-smp - RHEL4

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Subject: Re: Mount in vps  
Posted by [Vasily Tarasov](#) on Wed, 04 Oct 2006 13:31:20 GMT  
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There is no bind ro bindmounts in Linux.

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Subject: Re: Mount in vps  
Posted by [dagr](#) on Wed, 04 Oct 2006 13:35:01 GMT  
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Ok , so is there any way to share dir to vps as read-only ?

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Subject: Re: Mount in vps  
Posted by [Vasily Tarasov](#) on Wed, 04 Oct 2006 14:06:12 GMT  
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Here is an example how I can do it on my node:

```
[HN]# dd if=/dev/zero of=/tmp/shreddisk bs=1024 count=4000  
4000+0 records in  
4000+0 records out  
[HN]# mke2fs -F /tmp/shreddisk  
mke2fs 1.37 (21-Mar-2005)
```

Filesystem label=  
OS type: Linux  
Block size=1024 (log=0)  
Fragment size=1024 (log=0)  
504 inodes, 4000 blocks  
200 blocks (5.00%) reserved for the super user  
First data block=1  
Maximum filesystem blocks=4194304  
1 block group  
8192 blocks per group, 8192 fragments per group  
504 inodes per group

Writing inode tables: done  
Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 27 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

```
[HN]# vzctl start 112
Starting VPS ...
VPS is mounted
Setting CPU units: 1000
VPS start in progress...
[HN]# mount -o loop,ro /tmp/shreddisk /vz/root/112/shared/
[root@dhcp0-132 /]# vzctl enter 112
entered into VPS 112
[VE]# cat /proc/mounts
simfs / simfs rw 0 0
proc /proc proc rw 0 0
devpts /dev/pts devpts rw 0 0
ext2 /shared ext2 ro 0 0
[VE]# cd /shared/
[VE]# touch qwe
touch: cannot touch `qwe': Read-only file system
```

Of course, if you have and wish to share some block device or partition you don't need to create loop device.

HTH,  
vass.

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Subject: Re: Mount in vps  
Posted by [dagur](#) on Wed, 04 Oct 2006 14:13:38 GMT  
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yes , it might work . But new question comes.  
Surely i will need opportunity to write in this sharedir from original system (non VPS). Can you say

if its absolutely safe to make 2 mounts of this file to different dirs (i mount ro for VPS and another rw for original server ) ? ( i heard such situation can cause some problems)

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Subject: Re: Mount in vps

Posted by [Vasily Tarasov](#) on Wed, 04 Oct 2006 14:40:00 GMT

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Hmmm.... yeap, I suppose there can be some problems...

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Subject: Re: Mount in vps

Posted by [dagr](#) on Wed, 04 Oct 2006 14:51:53 GMT

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ok i found out the problem with loopback. If you make 2 loopback mounts, one of them rw , then all changes in partition are cached, ie you will not see changes inside VPS ro mount until remount, ie VPS restart.

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Subject: Re: Mount in vps

Posted by [Vasily Tarasov](#) on Wed, 04 Oct 2006 14:56:36 GMT

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The only solution I see now is to create NFS server and mount rw and ro on hw node and then bindmount ro mounts inside VE....

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Subject: Re: Mount in vps

Posted by [Valmont](#) on Wed, 04 Oct 2006 16:52:22 GMT

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Maybe will be enough just nfs server on hw and two nfs clients from vpses? without binds

But it's not very secure to setup nfs server on hw...

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Subject: Re: Mount in vps

Posted by [Vasily Tarasov](#) on Thu, 05 Oct 2006 06:30:35 GMT

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You can't mount nfs directly from VE, nfs is not virtualized now. However, you're right, you can run server on HN and mount nfs in /vz/root/<VEID>/sharedir/.

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