
Subject: Need help with mount bind

Posted by [crombiecrunch](#) on Thu, 18 Feb 2010 06:45:58 GMT

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Hello all

My server is setup with a 2TB main drive and a 750GB drive mounted on the HN as /backup. I want to share that drive with containers that are running cpanel on them. I tried doing a mount --bind /backup /vz/root/101/backup on th HN but when going to the container and doing a DF the /backup is not listed there.

Any help on getting this setup? Ideally I would like to break it down to x amount of GB on the /backup per container. So say I have a VPS which has 35GB of HDD they can only use 35GB on the /backup.

Subject: Re: Need help with mount bind

Posted by [maratrus](#) on Sat, 20 Feb 2010 10:06:50 GMT

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Hello jonathan,

I'd like to start from the end of your post.

Quote:

Ideally I would like to break it down to x amount of GB on the /backup per container. So say I have a VPS which has 35GB of HDD they can only use 35GB on the /backup.

I'm not sure that this is the best idea and I hope that you will be able to find an optimal variant but consider this as a starting point to proceed further: don't you want to allocate the whole 750Gb disk to a single volume group and then create just logical volumes that are corresponded to VEs backup directories e.g. /backup/101, /backup/102, /backup/103 etc. Each of them you can mount --bind inside appropriate VE.

For further information please turn to:

<http://tldp.org/HOWTO/LVM-HOWTO/>

That's a flexible way to solve your problem from my point of view as you can easily create an additional logical volume as well as set a well-defined size to it when a particular VE is being created.

Quote:

but when going to the container and doing a DF the /backup is not listed there.

But isn't this a normal "df" utility behavior? If I do "mount --bind" on a pure Linux machine, I don't expect to view information in "df" output. Am I wrong?

Subject: Re: Need help with mount bind
Posted by [maratrus](#) on Sat, 20 Feb 2010 10:36:52 GMT
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Or even better variant.

After the logical volume is created move it inside VE with help of "vzctl --devnodes" command. Then you may create a filesystem inside a VE and mount it as you want. The difference is that this variant is more correct and "df" works in this case.

Subject: Re: Need help with mount bind
Posted by [crombiecrunch](#) on Sat, 27 Feb 2010 17:56:24 GMT
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Ok

So I had this working the other day

On my /backup drive I created several folders 101,102,etc

I then used the command

```
mount --bind /backup/101 vz/root/101/backup
```

and it worked. Last night I had to reboot the main node and now when I try to do the above command I get

```
mount: mount point vz/root/101/backup does not exist
```

The containers 101 and 102 which I had originally done this to still have access to /backup for whatever reason and places the files in the correct folder on /backup, i.e. 101. And I say this because I thought when the main node got rebooted the mount binds got deleted. But it seems this didnt happen.

I am trying to mount bind a new container 105 and for the life of me I can not get it to bind

Subject: Re: Need help with mount bind
Posted by [maratrus](#) on Thu, 04 Mar 2010 08:45:33 GMT
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Hello,

```
vz/root/101/backup
```

this is a relative path not an absolute one. It might cause a problem because it depends from what directory the command is invoked.

Subject: Re: Need help with mount bind
Posted by [TheStig](#) on Thu, 04 Mar 2010 09:04:48 GMT
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On my more recent OpenVZ kernels (2.6.24 or .26) df (or mount for that matter) lists devices bound in via "mount --bind" inside a VPS correctly, even displaying the correct path on the HNs /dev/. On my 'custom' 2.6.22 it doesn't work unless I run df on the bound in device directly (eg. 'df /var/www').

I'm not quite sure if that also works if you bind just a subdirectory instead of an device, as I always create LVMs or DRBDs for my VPS.

If you just want to backup your VPS I wouldn't make the backup accessible inside a VPS but rather (r)sync the contents of /vz/private/#/whatever-you-need/ via a cronjob to the backup disk. This way your backup is still save, even if your VPS is cracked.
