
Subject: *SOLVED* Sharing /home between vps, nfs/bind mount not working?

Posted by [xinhes](#) on Fri, 04 Aug 2006 10:14:49 GMT

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I can't find a working solution to having /home shared between vps servers.

Here is what i have tested:

```
# mount -o bind /vz/home /vz/private/1002/home
```

```
# df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/md0	4032000	1372192	2454988	36%	/
none	451656	0	451656	0%	/dev/shm
/dev/md2	4032000	186900	3640280	5%	/var
/dev/md3	1186166788	527048520	598864508	47%	/vz
/vz/home	1186166788	527048520	598864508	47%	/vz/private/1002/home

```
# vzctl exec 1002 ls -la /home
```

```
total 8
```

```
drwxr-xr-x  2 root root 4096 Aug  4 12:00 .
```

```
drwxr-xr-x 24 root root 4096 Aug  3 16:10 ..
```

```
-- --
```

As you can see the bind mounted dir doesn't show up in the vserver it's not supposed to be empty.

Well, next thing to try is to bind mount before starting the vps. Then this happens:

```
# mount -o bind /vz/home /vz/private/1002/home
```

```
# vzctl start 1002
```

```
Starting VPS ...
```

```
vzquota : (error) Quota on syscall for 1002: Device or resource busy
```

```
vzquota on failed [3]
```

```
-- --
```

I have also tried to drop vzquota so it gets recalculated at startup but it still refuses to start with "Device or resource busy"

Anyone got a clue why vzquota complains and refuses to start when I have bind mounted into the vps server?

So I could use nfs then?

No, that also fails because rpc.nfsd refuses to start in the ovkernel like this:

```
]# uname -a
```

```
Linux XXX 2.6.16-026test015.2 #1 Fri Jul 14 16:09:51 MSD 2006 i686 athlon i386 GNU/Linux
```

```
# service nfs start
```

```
Starting NFS services: [ OK ]
```

```
Starting NFS quotas: [ OK ]
```

```
Starting NFS daemon: [FAILED]
```

```
Starting NFS mountd: [ OK ]
```

```
-- --
```

Anyone got a clue on how I should proceed?

One solution would be to move /home to another nfs server. But then I'd have to dedicate one server for that purpose.

I have just started converting this server from vserver to openvz and the bind mounts worked fine with vserver.

Subject: Re: Sharing /home between vps, nfs/bind mount not working?

Posted by [Andrey Mirkin](#) on Fri, 04 Aug 2006 10:35:44 GMT

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Start VPS and try this:

```
# mount -o bind /vz/home /vz/root/1002/home
```

You can also use 1002.mount/1002.umount scripts to do this mount/umount on start/stop VPS.

Subject: Re: Sharing /home between vps, nfs/bind mount not working? (Solution HERE)

Posted by [xinhes](#) on Fri, 04 Aug 2006 11:22:01 GMT

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Ahh, A simple case of RTFM

Mount/Umount scripts worked just fine:

Since each user usually gets one vps in my setup. I only have to mount one home in each vps. So for the ftp server (vps 1001) it goes like this:

1001.mount:

```
#!/bin/sh
```

```
mount -o bind,ro /vz/home/ftp /vz/root/$VEID/home/ftp
```

1001.umount:

```
#!/bin/sh
```

```
umount /vz/root/$VEID/home/ftp
```

```
#vzctl ecec 1001 df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
simfs	10000000	162724	9837276	2%	/
ext3	1186166788	527050296	598862732	47%	/home/ftp

OPS, Just noted that bind mounts arent Read-Only. Put that up on the feature wishlist

[Edit]

After fiddling with mount/umount scripts a while I created a global mount/umount script. This means I only have one file to edit and all other files are links to this file. More like automount which im used to. Hardlink vps.umount to this script also:

/etc/sysconfig/vz-scripts/vps.mount:

```
#!/bin/sh
# Mount/Umount script for vz servers

CMD=${0/*./}
BASEDIR=/vz

# Pull in VPS settings, especially (VE_ROOT)
[ -f /etc/sysconfig/vz ] || exit 1
[ -f $VE_CONFFILE ] || exit 1
. /etc/sysconfig/vz
. $VE_CONFFILE

# Configure directories to be mounted per VPS here
VPSDIRS="\
    1001:home/ftp\
    1002:home\
"

for m in $VPSDIRS; do
    VPS=${m/*./}
    VPH=${m/*:/}
    if [ "$VEID" == "$VPS" ]; then
        if [ "$CMD" == "mount" ]; then
            mount -o bind $BASEDIR/$VPH $VE_ROOT/$VPH
        else if [ "$CMD" == "umount" ]; then
            umount $VE_ROOT/$VPH
        fi fi
    fi
done
```

Subject: Re: Sharing /home between vps, nfs/bind mount not working? (Follow up Q about vzquota)

Posted by [xinhes](#) on Fri, 04 Aug 2006 11:38:45 GMT

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I had to turn off user quota on the ext3 filesystem when I converted this server to openvz. So now I have lost quotas on the home directories.

The question is. Can simfs be used to do something like the bind mount. Thus enabling some form of quota on the "bind" mounted home?

Subject: Re: Sharing /home between vps, nfs/bind mount not working?

Posted by [aistis](#) on Mon, 07 Aug 2006 13:59:18 GMT

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xinhes wrote on Fri, 04 August 2006 14:22Ahh, A simple case of RTFM

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try using this patch:

http://bugzilla.openvz.org/show_bug.cgi?id=160
