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Subject: \*SOLVED\* Shared vps files

Posted by [dagr](#) on Mon, 11 Sep 2006 14:14:57 GMT

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I know that in vserver project there is such thing like sharing files between different vps. Say you need common dirs like /bin /sbin in every vps - to save disk space you can make it sharable. Default centos vps takes 300 Mb which is not good in case of 100 VPS. Is there similar thing in openvz ?

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Subject: Re: Shared vps files

Posted by [Vasily Tarasov](#) on Mon, 11 Sep 2006 14:56:34 GMT

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This is possible with some tricks. This is what I've just done:

```
[myhwn]# vzctl create 30
```

```
Creating VPS private area: /vz/private/30
```

```
Performing postcreate actions
```

```
VPS private area was created
```

```
[root@dhcp0-174 ~]# vzctl create 31
```

```
Creating VPS private area: /vz/private/31
```

```
Performing postcreate actions
```

```
VPS private area was created
```

```
[root@dhcp0-174 ~]# rm -rf /vz/private/31/sbin/*
```

```
[root@dhcp0-174 ~]# cat > /etc/vz/conf/31.mount
```

```
#!/bin/bash
```

```
mount --bind /vz/private/30/sbin /vz/root/31/sbin
```

```
[root@dhcp0-174 ~]# chmod +x /etc/vz/conf/31.mount
```

```
[root@dhcp0-174 ~]# cat > /etc/vz/conf/31.umount
```

```
#!/bin/bash
```

```
umount /vz/root/31/sbin
```

```
[root@dhcp0-174 ~]# chmod +x /etc/vz/conf/31.umount
```

After that VE 31 should use the same /sbin, that uses VE30. Let's check, does it work:

```
[root@dhcp0-174 ~]# vzctl start 30
```

```
Starting VPS ...
```

```
VPS is mounted
```

Setting CPU units: 1000

VPS start in progress...

[root@dhcp0-174 ~]# vzctl start 31

Starting VPS ...

vzquota : (warning) Quota is running for id 31 already

VPS is mounted

Setting CPU units: 1000

VPS start in progress...

[root@dhcp0-174 ~]# vzctl enter 30

entered into VPS 30

-bash-3.00# ls /sbin/

MAKDEV clock ether-wake halt insmod.static kmodule mkfs.ext2 netreport  
poweroff route slogin  
addpart consoletype fdisk hwclock install-info lconfig mkfs.ext3 nologin  
ppp-watch rtmon swapoff  
agetty ctrlaltdel findfs ifcfg ip logsave mkswap pam\_console\_apply  
pwdb\_chkpwd runlevel swapon  
arp debugfs fsck ifconfig ipmaddr losetup modprobe pam\_tally  
quotacheck runuser sysctl  
arping delpart fsck.cramfs ifdown iptables lsmod mount.cifs  
pam\_timestamp\_check quotaoff service syslogd  
badblocks dumpe2fs fsck.ext2 ifenslave iptables-restore mii-diag mount.smb partx  
quotaon setsysfont tc  
blkid e2fsck fsck.ext3 ifup iptables-save mii-tool mount.smbfs pidof  
rdisc sdfdisk telinit  
blockdev e2image fuser init iptunnel mke2fs nameif pivot\_root  
reboot shutdown tune2fs  
change\_console e2label genhostid initlog killall5 mkfs nash plipconfig  
rescuept slattach unix\_chkpwd  
chkconfig elvtune getkey insmod klogd mkfs.cramfs netplugged portmap  
resize2fs sln

-bash-3.00# echo "qwe" > /sbin/check

-bash-3.00# exit

logout

exited from VPS 30

[root@dhcp0-174 ~]# vzctl enter 31

entered into VPS 31

-bash-3.00# ls /sbin/

MAKDEV chkconfig elvtune getkey insmod klogd mkfs.cramfs netplugged  
portmap resize2fs sln  
addpart clock ether-wake halt insmod.static kmodule mkfs.ext2 netreport  
poweroff route slogin  
agetty consoletype fdisk hwclock install-info lconfig mkfs.ext3 nologin

```
ppp-watch rtmon swapoff
arp ctrlaltdel findfs ifcfg ip logsave mkswap pam_console_apply
pwdb_chkpwd runlevel swapon
arping debugfs fsck ifconfig ipmaddr losetup modprobe pam_tally
quotacheck runuser sysctl
badblocks delpart fsck.cramfs ifdown iptables lsmod mount.cifs
pam_timestamp_check quotaoff service syslogd
blkid dumpe2fs fsck.ext2 ifenslave iptables-restore mii-diag mount.smb partx
    quotaon setsysfont tc
blockdev e2fsck fsck.ext3 ifup iptables-save mii-tool mount.smbfs pidof
rdisc sdfdisk telinit
change_console e2image fuser init iptunnel mke2fs nameif pivot_root
reboot shutdown tune2fs
check e2label genhostid initlog killall5 mkfs nash plipconfig
rescuept slattach unix_chkpwd
```

```
-bash-3.00# cat /sbin/check
qwe
```

```
-bash-3.00# exit
logout
exited from VPS 31
```

```
[root@dhcp0-174 ~]# vzctl stop 30
Stopping VPS ...
VPS was stopped
vzquota : (error) Quota off syscall for id 30: Device or resource busy
vzquota off failed [3]
```

```
[root@dhcp0-174 ~]# vzctl stop 31
Stopping VPS ...
VPS was stopped
VPS is unmounted
```

So it works! =)

The only problem is OpenVZ disk quota. This feature obviously will not work properly with such configuration.  
You should turn it off.

BTW, Virtuozzo uses vzfs instead simfs (this one is used in OpenVZ), and vzfs accomplish file sharing very effectively.

**Subject: Re: Shared vps files**

Posted by [n00b\\_admin](#) on Wed, 13 Sep 2006 09:01:08 GMT

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Thanks for the tip !

I was looking for something like this !

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**Subject: Re: Shared vps files**

Posted by [szocske](#) on Thu, 14 Sep 2006 20:48:14 GMT

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Hi there!

Would hardlinking the directorys from the host work?

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**Subject: Re: Shared vps files**

Posted by [Vasily Tarasov](#) on Mon, 18 Sep 2006 06:12:19 GMT

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Hardlinking of directories is not permitted in linux:

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```
[host] $ ln /usr/ /tmp/  
ln: `/usr/': hard link not allowed for directory
```

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