
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 ?

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/
MAKEDEV      clock      ether-wake  halt      insmod.static  kmodule    mkfs.ext2  netreport
             poweroff   route       sulogin
addpart      consoletype fdisk       hwclock   install-info   ldconfig   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        sfdisk    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 netplugd   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/
MAKEDEV      chkconfig  elvtune     getkey    insmod        klogd     mkfs.cramfs netplugd
             portmap    resize2fs   sln
addpart      clock      ether-wake  halt      insmod.static  kmodule   mkfs.ext2  netreport
             poweroff   route       sulogin
agetty       consoletype fdisk       hwclock   install-info   ldconfig  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    lsmmod   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      sfdisk   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 !

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 directories from the host work?

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:

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