
Subject: Re: OpenVZ and Gentoo (partly solved)
Posted by [wimalopaaan](#) on Thu, 05 Jan 2006 17:08:03 GMT
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Am Donnerstag, 5. Januar 2006 17:31 schrieb Kirill Korotaev:
> >>found it!
> >>you need to start VPS and then do bind mount, since vzctl redo mounts on
> >>VPS start, so my 1st proposal for you was wrong. sorry :)
> >
> > no problem. It tried it already, and now I get "permissin denied" if I
> > try to access the directory from inside the VPS.
>
> huh... what file permissions do you have in /usr/portage?
> please, note, that UIDs can be different in VPS and host system.
> Also please check cat /proc/sys/fs/ve-area-access-check
> if it is non-zero value, then echo 0 to it.

o.k., that's it !!! thanks

> This check makes sure that your VPS has no access to trusted data or
> host system don't access to untrusted one. Just disable it as we did in
> recent kernel by default.
>
> >>the best way you can do it actually is to insert your special mounts in
> >>VPS mount script which will be automatically run on VPS start.
> >
> > This must be done on the host. Is there a possibility to execute scripts
> > by vzctl start?
>
> yes. see scripts in /etc/sysconfig/vz-scripts

I placed the two scripts (see below), but they aren't executed :-(The scripts should mount/umount the bind-mounts.

```
gs scripts # ls -l /usr/lib/vzctl/scripts/
total 32
-rwxr-xr-x 1 root root 69 Jan 5 19:38 2001.mount
-rwxr-xr-x 1 root root 47 Jan 5 19:39 2001.umount
-rwxr-xr-x 1 root root 1522 Jan 4 01:05 vps-create
-rwxr-xr-x 1 root root 4037 Jan 4 01:05 vps-functions
-rwxr-xr-x 1 root root 1354 Jan 4 01:05 vps-net_add
-rwxr-xr-x 1 root root 1127 Jan 4 01:05 vps-net_del
-rwxr-xr-x 1 root root 2308 Jan 4 01:05 vps-postcreate
-rwxr-xr-x 1 root root 785 Jan 4 01:05 vps-stop
gs scripts # vzctl --verbose start 2001
Unable to open /usr/lib/vzctl/modules/: No such file or directory
Starting VPS ...
Running: /usr/sbin/vzquota show 2001
```

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Running: /usr/sbin/vzquota on 2001 -r 0 -b 1048676 -B 1153534 -i 200100 -l
220100 -e 0 -n 0 -s 0
Mounting root: /vz/root/2001 /vz/private/2001
VPS is mounted
Running: /usr/sbin/vzquota stat 2001 -f
Running: vzquota setlimit 2001 -b 1048576 -B 1153434 -i 200000 -l 220000 -e 0
-n 0
Adding IP address(es): 192.168.39.21
Running: /usr/lib/vzctl/scripts/vps-net_add
Running VPS script: /etc/vz/dists/scripts/gentoo-add_ip.sh
Setting CPU units: 1000
Set hostname: ovz01
Running VPS script: /etc/vz/dists/scripts/gentoo-set_hostname.sh
VPS start in progress...
gs scripts # mount
/dev/hda1 on / type ext3 (rw,noatime)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
udev on /dev type tmpfs (rw,nosuid)
devpts on /dev/pts type devpts (rw)
/dev/hdb1 on /fttproot type ext3 (rw,noatime)
shm on /dev/shm type tmpfs (rw,noexec,nosuid,nodev)
192.168.39.1:/home/lmeier on /root/lmeier type nfs (rw,addr=192.168.39.1)
gs scripts #
```

```
>
> >>Please note, on 2.6.8 kernel bind mount is still rw :(
> >
> > o.k.
> >
> >>Kirill
> >>
> >>>Am Donnerstag, 5. Januar 2006 16:27 schrieb Kirill Korotaev:
> >>>>can you give me an access? it will be much faster...
> >>>>if so, send me a private mail with login please.
> >>>
> >>>Sorry, thats not possible ...
> >>>
> >>>>Kirill
> >>>>
> >>>>>Am Donnerstag, 5. Januar 2006 15:25 schrieb Kirill Korotaev:
> >>>>>>The network issue is partly solved: I do not use the gentoo net.lo
> >>>>>>script for net.venet0 anymore, instead I setup the interfaces venet0
> >>>>>>and venet0:0 with the attached workaround-script.
> >>>>>>
> >>>>>>>But, how do I bind-mount directories from to host to the VPS, e.g.
> >>>>>>> to use /usr/portage in the VPD too. If I try to (on host)
> >>>>>>>
```

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> >>>>>gs ~ # mount /usr/portage /vz/private/2001/usr/portage/ -o bind,ro
> >>>>>
> >>>>>try /vz/root/2001/usr/portage after VPS is mounted.
> >>>>>
> >>>>>does not solve the problem.
> >>>>>
> >>>>>on host:
> >>>>>
> >>>>>gs ~ # vzctl mount 2001
> >>>>>VPS is mounted
> >>>>>gs ~ # mount /usr/portage /vz/root/2001/usr/portage -o bind,ro
> >>>>>gs ~ # mount
> >>>>>/dev/hda1 on / type ext3 (rw,noatime)
> >>>>>proc on /proc type proc (rw)
> >>>>>sysfs on /sys type sysfs (rw)
> >>>>>udev on /dev type tmpfs (rw,nosuid)
> >>>>>devpts on /dev/pts type devpts (rw)
> >>>>>/dev/hdb1 on /tftproot type ext3 (rw,noatime)
> >>>>>shm on /dev/shm type tmpfs (rw,noexec,nosuid,nodev)
> >>>>>192.168.39.1:/home/lmeier on /root/lmeier type nfs
> >>>>>(rw,addr=192.168.39.1) none on proc type proc (rw)
> >>>>>/usr/portage on /vz/root/2001/usr/portage type none (ro,bind)
> >>>>>gs ~ #
> >>>>>
> >>>>>in the VPS:
> >>>>>
> >>>>>ovz01 usr # ls
> >>>>>bin          include libexec portage  sbin  src
> >>>>>i386-pc-linux-gnu lib  local  portage.vps share tmp
> >>>>>ovz01 usr # ls -l portage
> >>>>>total 0
> >>>>>ovz01 usr #
> >>>>>
> >>>>>>l get
> >>>>>>
> >>>>>>ovz01 usr # ls
> >>>>>>bin i386-pc-linux-gnu include lib libexec local portage sbin
> >>>>>>share src tmp
> >>>>>>ovz01 usr # ls portage
> >>>>>>ovz01 usr #
> >>>>>>
> >>>>>>on the VPS ovz01. Whats wrong?
> >>>>>>
> >>>>>>- Wilhelm
> >>>>>>
> >>>>>>>Am Mittwoch, 4. Januar 2006 17:28 schrieb Wilhelm Meier:
> >>>>>>>Am Mittwoch, 4. Januar 2006 09:51 schrieb Kirill Korotaev:
> >>>>>>>>so you run Gentoo inside VPS yeah?

```

```

> >>>>>>>
> >>>>>>>Well, I try to ...
> >>>>>>>
> >>>>>>>>the problem seems to be in your initscripts, which didn't mount
> >>>>>>>>/proc on VPS start and didn't create /dev/ptyX entries for
> >>>>>>>> terminal devices. Looks like the only process in your VPS is
> >>>>>>>> init, strange...
> >>>>>>>
> >>>>>>>>I created the needed /dev/tty0 and /dev/tty0 by hand
> >>>>>>>>in /vz/private/<id>/dev/ and mount also /proc by hand. Then it is
> >>>>>>>>possible to enter the gentoo-VPS:
> >>>>>>>
> >>>>>>>>gs ~ # vzctl enter 2001
> >>>>>>>>entered into VPS 2001
> >>>>>>>>ovz01 / # ps aux
> >>>>>>>>USER      PID %CPU %MEM  VSZ  RSS TTY      STAT START  TIME
> >>>>>>>>COMMAND root      1 0.0 0.1  1368  480 ?        Ss   17:06
> >>>>>>>>0:00 ini root    14644 0.0 0.3  1740  780 ?        Ss   17:14
> >>>>>>>>0:00 vzctl: tty0 root    15669 0.5 0.5  2244 1288 tty0  Ss
> >>>>>>>>17:14 0:00 bash -i root    15671 0.0 0.3  2376  836 tty0
> >>>>>>>>R+ 17:14 0:00 ps aux ovz01 / #
> >>>>>>>
> >>>>>>>>I also copied /etc/init.d/net.lo to the VPS and some additional
> >>>>>>>>scripts, which are apparently missing.
> >>>>>>>>But in the gentoo-VPS I get still:
> >>>>>>>
> >>>>>>>>ovz01 / # /etc/init.d/net.venet0 start
> >>>>>>>>* Starting
> >>>>>>>>*      no interface module has been loaded
> >>>>>>>>ovz01 / #
> >>>>>>>>ovz01 / # /sbin/ifconfig -a
> >>>>>>>>lo      Link encap:Local Loopback
> >>>>>>>>      LOOPBACK MTU:16436 Metric:1
> >>>>>>>>      RX packets:38 errors:0 dropped:0 overruns:0 frame:0
> >>>>>>>>      TX packets:38 errors:0 dropped:0 overruns:0 carrier:0
> >>>>>>>>      collisions:0 txqueuelen:0
> >>>>>>>>      RX bytes:2660 (2.5 Kb) TX bytes:2660 (2.5 Kb)
> >>>>>>>>
> >>>>>>>>venet0  Link encap:UNSPEC HWaddr
> >>>>>>>>00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
> >>>>>>>>      BROADCAST POINTOPOINT NOARP MTU:1500 Metric:1
> >>>>>>>>      RX packets:0 errors:0 dropped:0 overruns:0 frame:0
> >>>>>>>>      TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
> >>>>>>>>      collisions:0 txqueuelen:0
> >>>>>>>>      RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
> >>>>>>>>
> >>>>>>>>ovz01 / #
> >>>>>>>

```

```
> >>>>>>>If I try that with a debian-guest on the gentoo-host, I get:
> >>>>>>>
> >>>>>>>gs ~ # vzctl enter 2002
> >>>>>>>entered into VPS 2002
> >>>>>>>root@ovz02:/# ifconfig -a
> >>>>>>>lo      Link encap:Local Loopback
> >>>>>>>      LOOPBACK MTU:16436 Metric:1
> >>>>>>>      RX packets:38 errors:0 dropped:0 overruns:0 frame:0
> >>>>>>>      TX packets:38 errors:0 dropped:0 overruns:0 carrier:0
> >>>>>>>      collisions:0 txqueuelen:0
> >>>>>>>      RX bytes:2660 (2.5 KiB) TX bytes:2660 (2.5 KiB)
> >>>>>>>
> >>>>>>>venet0  Link encap:UNSPEC HWaddr
> >>>>>>>00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
> >>>>>>>      inet addr:127.0.0.1 P-t-P:127.0.0.1 Bcast:0.0.0.0
> >>>>>>>Mask:255.255.255.255
> >>>>>>>      UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
> >>>>>>>      RX packets:3 errors:0 dropped:0 overruns:0 frame:0
> >>>>>>>      TX packets:3 errors:0 dropped:0 overruns:0 carrier:0
> >>>>>>>      collisions:0 txqueuelen:0
> >>>>>>>      RX bytes:252 (252.0 b) TX bytes:252 (252.0 b)
> >>>>>>>
> >>>>>>>venet0:0 Link encap:UNSPEC HWaddr
> >>>>>>>00-00-FF-FF-FF-FF-00-00-00-00-00-00-00-00-00-00-00-00-00-00
> >>>>>>>      inet addr:192.168.39.22 P-t-P:192.168.39.22 Bcast:0.0.0.0
> >>>>>>>Mask:255.255.255.255
> >>>>>>>      UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
> >>>>>>>
> >>>>>>>root@ovz02:/#
> >>>>>>>
> >>>>>>>So the interface venet0:0 is missing in the gentoo-guest.
> >>>>>>>
> >>>>>>>>kir@ who is in charge of Gentoo will be available after Jan 7
> >>>>>>>> only, but I can check what's wrong with your VPS if you provide
> >>>>>>>> me the credentials in private email.
> >>>>>>>>
> >>>>>>>>Kirill
> >>>>>>>>
> >>>>>>>>Hi,
> >>>>>>>>
> >>>>>>>>>I want to use OpenVZ with Gentoo. I did the install of OpenVZ as
> >>>>>>>>>described in
> >>>>>>>>>
> >>>>>>>>>http://dev.croup.de/proj/gentoo-vps/wiki
> >>>>>>>>>
> >>>>>>>>>>When I try to enter, I get:
> >>>>>>>>>>
> >>>>>>>>>>>gs ~ # vzctl start 2001
```

```
> >>>>>>>>>Starting VPS ...
> >>>>>>>>>VPS is mounted
> >>>>>>>>>Setting CPU units: 1000
> >>>>>>>>>VPS start in progress...
> >>>>>>>>>gs ~ # vzctl status 2001
> >>>>>>>>>VPSID 2001 exist mounted running
> >>>>>>>>>gs ~ # vzctl enter 2001
> >>>>>>>>>Unable to open pty: No such file or directory
> >>>>>>>>>enter failed
> >>>>>>>>>gs ~ #
> >>>>>>>>>
> >>>>>>>>>and
> >>>>>>>>>
> >>>>>>>>>gs ~ # vzctl exec 2001 ps aux
> >>>>>>>>>Error, do this: mount -t proc proc /proc
> >>>>>>>>>gs ~ # vzctl exec 2001 mount -t proc none /proc
> >>>>>>>>>gs ~ # vzctl exec 2001 ps aux
> >>>>>>>>>USER      PID %CPU %MEM  VSZ  RSS TTY      STAT START  TIME
> >>>>>>>>>COMMAND root      1  0.0  0.1  1368  480 ?        Ss   00:30
> >>>>>>>>>0:00 ini root    22894  0.0  0.3  2372  832 ?        Rs
> >>>>>>>>>00:31 0:00 ps aux gs ~ #
> >>>>>>>>>
> >>>>>>>>>Any hints?
> >>>>>>>>>--
> >>>>>>>>>Wilhelm Meier
> >>>>>>>>>email: meier@informatik.fh-kl.de
--
--
Wilhelm Meier
email: meier@informatik.fh-kl.de
```
