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Subject: ppp inside VPS  
Posted by [Rommer](#) on Sat, 16 Sep 2006 12:31:32 GMT  
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```
[root@server]# modprobe ppp_generic
[root@server]# vzctl set 100 --devices c:108:0:rw --save
Setting devices
Saved parameters for VPS 100
[root@server]# vzctl enter 100
entered into VPS 100
-bash-3.00# mknod /dev/ppp c 108 0
-bash-3.00# pptp vpn-server.com
/usr/sbin/pppd: This system lacks kernel support for PPP. This could be because
the PPP kernel module could not be loaded, or because PPP was not
included in the kernel configuration. If PPP was included as a
module, try `/sbin/modprobe -v ppp'. If that fails, check that
ppp.o exists in /lib/modules/`uname -r`/net.
See README.linux file in the ppp distribution for more details.

-bash-3.00#
```

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Subject: Re: ppp inside VPS  
Posted by [Vasily Tarasov](#) on Mon, 18 Sep 2006 08:36:07 GMT  
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```
strace -f -o strace.out pppd
```

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Subject: Re: ppp inside VPS  
Posted by [Rommer](#) on Mon, 18 Sep 2006 09:32:38 GMT  
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```
-bash-3.00# pppd --version
pppd version 2.4.3
```

## File Attachments

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1) [strace.out](#), downloaded 1306 times

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Subject: Re: ppp inside VPS

Posted by [Vasily Tarasov](#) on Mon, 18 Sep 2006 11:46:09 GMT

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```
16120 open("/dev/ppp", O_RDWR)      = -1 EPERM (Operation not permitted)
```

```
2.6.16-026test017
```

```
template: fc4
```

```
pppd (fc4):
```

```
-bash-3.1# rpm -qa | grep ppp
```

```
ppp-2.4.2-7
```

```
drivers/net/ppp_generic.c:
```

```
...
```

```
static int ppp_open(struct inode *inode, struct file *file)
```

```
{
```

```
    /*
```

```
     * This could (should?) be enforced by the permissions on /dev/ppp.
```

```
     */
```

```
    if (!capable(CAP_NET_ADMIN))
```

```
        return -EPERM;
```

```
    return 0;
```

```
}
```

```
...
```

```
[hw]# vzctl stop 35
```

```
Stopping VPS ...
VPS was stopped
VPS is unmounted
[hw]# vzctl set 35 --capability net_admin:on --save
Saved parameters for VPS 35
[hw]# vzctl start 35
Starting VPS ...
VPS is mounted
Setting CPU units: 1000
Setting devices
VPS start in progress...
[root@dhcp0-174 tmp]# vzctl enter 35
entered into VPS 35
-bash-3.1# pppd
pppd pppdump
-bash-3.1# pppd
-bash-3.1# echo $?
1
-bash-3.1# pppd
-bash-3.1# echo $?
1
```

```
-bash-3.1# cat /var/log/messages | grep pppd
Sep 18 00:57:42 hw pppd[17673]: pppd 2.4.2 started by root, uid 0
Sep 18 00:57:42 hw pppd[17673]: Couldn't set tty to PPP discipline: Invalid argument
Sep 18 00:57:42 hw pppd[17673]: Exit.
Sep 18 01:12:23 hw pppd[20190]: pppd 2.4.2 started by root, uid 0
Sep 18 01:12:23 hw pppd[20190]: Failed to open /dev/pts/0: Device or resource busy
Sep 18 01:12:23 hw pppd[20190]: Exit.
```

```
if (ioctl(tty_fd, TIOCSETD, &ppp_disc) < 0) {
    if ( ! ok_error(errno) ) {
        error("Couldn't set tty to PPP discipline: %m");
        return -1;
    }
}
```

```
linuxsrc $ grep -r tty_register_ldisc ./ | grep N_PPP
./drivers/net/ppp_async.c:    err = tty_register_ldisc(N_PPP, &ppp_ldisc);
linuxsrc $ cat kernel-2.6.16-026test017-i686.config.ovz | grep CONFIG_PPP_ASYNC
CONFIG_PPP_ASYNC=m
```

```
[hw]# lsmod | grep ppp
ppp_generic      20620  0
slhc             6240  1 ppp_generi
[root@dhcp0-174 ~]# modprobe ppp_async
[root@dhcp0-174 ~]# echo $?
0
[root@dhcp0-174 ~]# lsmod | grep ppp
ppp_async        8960  0
crc_ccitt        2048  1 ppp_async
ppp_generic      20620  1 ppp_async
slhc             6240  1 ppp_generic
```

```
-bash-3.1# pppd
-bash-3.1# echo $?
1
-bash-3.1# tail -3 /var/log/messages
Sep 18 01:59:15 dhcp0-174 pppd[25632]: pppd 2.4.2 started by root, uid 0
Sep 18 01:59:15 dhcp0-174 pppd[25632]: Couldn't create new ppp unit: Operation not permitted
Sep 18 01:59:15 dhcp0-174 pppd[25632]: Exit.
```

```
25784 ioctl(10, PPPIOCNEWUNIT, 0x80083c08) = -1 EPERM (Operation not permitted)
```

```
PPP: couldn't register device ppp0 (-1)
```

```
ret = register_netdev(dev);
if (ret != 0) {
    printk(KERN_ERR "PPP: couldn't register device %s (%d)\n",
           dev->name, ret);
    goto out2;
}
```

```
ret = -EPERM;
if (!ve_is_super(get_exec_env()) && ve_is_dev_movable(dev))
    goto out;
```

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Subject: Re: ppp inside VPS  
Posted by [Vasily Tarasov](#) on Mon, 18 Sep 2006 11:58:30 GMT  
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[http://bugzilla.openvz.org/show\\_bug.cgi?id=268](http://bugzilla.openvz.org/show_bug.cgi?id=268)

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Subject: Re: ppp inside VPS  
Posted by [Rommer](#) on Mon, 18 Sep 2006 12:36:10 GMT  
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Subject: Re: ppp inside VPS  
Posted by [northwood](#) on Thu, 21 Sep 2006 11:03:50 GMT  
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Subject: Re: ppp inside VPS  
Posted by [Vasily Tarasov](#) on Thu, 21 Sep 2006 11:07:21 GMT  
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Subject: Re: ppp inside VPS  
Posted by [Rommer](#) on Thu, 21 Sep 2006 11:29:48 GMT  
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Subject: Re: ppp inside VPS  
Posted by [Vasily Tarasov](#) on Thu, 21 Sep 2006 11:42:31 GMT  
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Subject: Re: ppp inside VPS  
Posted by [northwood](#) on Thu, 21 Sep 2006 12:23:13 GMT  
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```
#lsmod
Module          Size Used by
...
pppoe           14336 0
pppox           4368 1 pppoe
ppp_mppe        7944 0
ppp_generic     23840 3 pppoe,pppox,ppp_mppe
...
```

```
...
24023 open("/dev/ppp", O_RDWR) = -1 EACCES (Permission denied)
24023 write(2, "pppd: This system lacks kernel s"..., 375) = 375
...
```

---

Subject: Re: ppp inside VPS  
Posted by [Umka](#) on Thu, 21 Sep 2006 12:59:49 GMT  
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```
24023 open("/dev/ppp", O_RDWR) = -1 EACCES (Permission denied)
24023 write(2, "pppd: This system lacks kernel s"..., 375) = 375
...
```

vzctl set \$id --devnodes ppp ?

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Subject: Re: ppp inside VPS

Posted by [northwood](#) on Thu, 21 Sep 2006 13:34:04 GMT

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pptp[22068]: warn[pptp\_gre\_bind:pptp\_gre.c:82]: socket: Address family not supported by protocol

pptp[22068]: fatal[main:pptp.c:284]: Cannot bind GRE socket, aborting.

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Subject: Re: ppp inside VPS

Posted by [northwood](#) on Sun, 24 Sep 2006 12:43:17 GMT

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"case IPPROTO\_GRE:"

```
int vz_security_proto_check(int family, int type, int protocol)
```

```
{
```

```
#ifdef CONFIG_VE
```

```
    if (ve_is_super(get_exec_env()))
        return 0;
```

```
    switch (family) {
```

```
    case PF_UNSPEC:
```

```
    case PF_PACKET:
```

```
    case PF_NETLINK:
```

```
    case PF_UNIX:
```

```
        break;
```

```
    case PF_INET:
```

```
        switch (protocol) {
```

```
        case IPPROTO_IP:
```

```
        case IPPROTO_ICMP:
```

```
        case IPPROTO_TCP:
```

```
        case IPPROTO_UDP:
```

```
        case IPPROTO_RAW:
```

```
        case IPPROTO_GRE:
```

```
            break;
```

...

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Subject: Re: ppp inside VPS  
Posted by [Night Nord](#) on Tue, 02 Sep 2008 17:58:36 GMT  
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