
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;
```