Subject: ppp inside VPS
Posted by Rommer on Sat, 16 Sep 2006 12:31:32 GMT
View Forum Message <> Reply to Message

[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#

Subject: Re: ppp inside VPS
Posted by Vasily Tarasov on Mon, 18 Sep 2006 08:36:07 GMT
View Forum Message <> Reply to Message

strace -f -o strace.out pppd

Subject: Re: ppp inside VPS
Posted by Rommer on Mon, 18 Sep 2006 09:32:38 GMT
View Forum Message <> Reply to Message

-bash-3.00# pppd --version
pppd version 2.4.3

File Attachments
1) strace.out, downloaded 1422 times

Subject: Re: ppp inside VPS
Posted by Vasily Tarasov on Mon, 18 Sep 2006 11:46:09 GMT
View Forum Message <> Reply to Message

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;
```

Subject: Re: ppp inside VPS
Posted by Vasily Tarasov on Mon, 18 Sep 2006 11:58:30 GMT
View Forum Message <> Reply to Message

http://bugzilla.openvz.org/show_bug.cgi?id=268

Subject: Re: ppp inside VPS
Posted by Rommer on Mon, 18 Sep 2006 12:36:10 GMT
View Forum Message <> Reply to Message

Subject: Re: ppp inside VPS
Posted by northwood on Thu, 21 Sep 2006 11:03:50 GMT
View Forum Message <> Reply to Message

Subject: Re: ppp inside VPS
Posted by Vasily Tarasov on Thu, 21 Sep 2006 11:07:21 GMT
View Forum Message <> Reply to Message

Subject: Re: ppp inside VPS
Posted by Rommer on Thu, 21 Sep 2006 11:29:48 GMT
View Forum Message <> Reply to Message

Subject: Re: ppp inside VPS
Posted by Vasily Tarasov on Thu, 21 Sep 2006 11:42:31 GMT
View Forum Message <> Reply to Message

Subject: Re: ppp inside VPS
Posted by northwood on Thu, 21 Sep 2006 12:23:13 GMT
View Forum Message <> Reply to Message

#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
View Forum Message <> Reply to Message

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 ?

Subject: Re: ppp inside VPS
Posted by northwood on Thu, 21 Sep 2006 13:34:04 GMT
View Forum Message <> Reply to Message

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.

Subject: Re: ppp inside VPS
Posted by northwood on Sun, 24 Sep 2006 12:43:17 GMT
View Forum Message <> Reply to Message

"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;
```

...

Subject: Re: ppp inside VPS
Posted by Night Nord on Tue, 02 Sep 2008 17:58:36 GMT
View Forum Message <> Reply to Message