## Subject: Kernelspace L2TP (using openI2tpd) inside VE - PPPOX socket fail Posted by Night Nord on Fri, 05 Sep 2008 16:40:08 GMT

View Forum Message <> Reply to Message

I previously posted this inside ppp-related thread into Russian forum, but it looks like, that it was wrong place. So now I repost (and restruct) all information into new thread.

## Before all:

I have 2.6.26 openvz kernel (from git, but also tried with 2.6.24)

Linux 2.6.26 #10 Tue Sep 2 22:32:53 MSD 2008 i686 Intel(R) Celeron(R) CPU 2.80GHz

vzctl --version: 3.0.22

Kernel and vzctl were patched with patches from bugzilla -

http://bugzilla.openvz.org/show\_bug.cgi?id=268

Also security check into net/socket.c was patched to pass through PF\_PPPOX requests;

I'm trying to get openI2tpd, which use CONFIG\_PPPOL2TP kernel module, working. While openI2tpd itself starting successfully, and even establish a tunnel - session creation failing during PPPOX socket creation with '-EAFNOSUPPORT' error:

556 socket(PF\_PPPOX, SOCK\_DGRAM, 1) = -1 EAFNOSUPPORT (Address family not supported by protocol)

This problem appears only in VE environment.

During some tests, error was located into drivers/net/pppox.c:

```
static int pppox_create(struct net *net, struct socket *sock, int protocol)
{
    int rc = -EPROTOTYPE;

    if (net != &init_net) /* << Error here */
        return -EAFNOSUPPORT;</pre>
```

( where init\_net - boot-created structure from include/net/net\_namespace.h:

```
/* Init's network namespace */
extern struct net init_net;
```

So, actually init\_net - this is HN-init's network namespace and, of course, it isn't equal VE'e net)

I have tried to simple disable this check, but this fails with 'EFAULT'. I wonder if there is any workaround... I have idea about saving init\_net into ve\_struct objects during VE creation, and replacing all such checks to VE-compatible checks, but this is a big work and my knowledge of C and kernel insufficient to predict results ( I even can't code for VE creation ).

Is there any difference between HN'n net and VE's net for socket operations, or can we just jump into ve0\_environment while pppox creating and then jump back (or this will mess up everything as creating ve-requested socket into ve0)?

## P.S. Sorry for bad English