
Subject: problem with socketcan in a VE

Posted by [sleepy](#) on Wed, 12 Jan 2011 15:35:15 GMT

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Hi,

I'm trying to use socketcan within a VE.
On the host it runs without problems.

Im running Proxmox 1.7 as host and Ubuntu 10.04 as VE

```
host# pveversion -v
pve-manager: 1.7-10 (pve-manager/1.7/5323)
running kernel: 2.6.32-4-pve
proxmox-ve-2.6.32: 1.7-30
pve-kernel-2.6.32-4-pve: 2.6.32-30
qemu-server: 1.1-28
pve-firmware: 1.0-10
libpve-storage-perl: 1.0-16
vncterm: 0.9-2
vzctl: 3.0.24-1pve4
vzdump: 1.2-10
vzprocps: 2.0.11-1dso2
vzquota: 3.0.11-1
pve-qemu-kvm: 0.13.0-3
kvm-control-daemon: 1.0-4
```

On the host I loaded the required modules and moved the network device to the VE

```
host# lsmod
Module                Size  Used by
vcan                   1575  0
can_raw                5287  0
can                    27914  1 can_raw
...
```

```
host# vzctl set 110 --netdev_add vcan0
```

WARNING: Settings were not saved and will be reset to original values at the next start (use --save flag)

I got the device in the VE and also the protocol:

```
VE:/proc/net# ifconfig vcan0
vcan0  Link encap:UNSPEC  Hardware Adresse
00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
UP RUNNING NOARP MTU:16 Metrik:1
```

```

RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
Kollisionen:0 Sendewarteschlangenlänge:0
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

```

```
VE:/proc/net/can# cat protocols
```

```

protocol size sockets memory press maxhdr slab module  cl co di ac io in de sh ss gs se re sp
bi br ha uh gp em
DDP      664    0   -1 NI    0 no appletalk n n n n n n n n n n n n n n n n n n n n n n
IPX      688    0   -1 NI    0 yes ipx      n n n n n n n n n n n n n n n n n n n n n n
ROSE    1160    0   -1 NI    0 no rose      n n n n n n n n n n n n n n n n n n n n n n
NETROM  1144    0   -1 NI    0 no netrom    n n n n n n n n n n n n n n n n n n n n n n
n n
AX25     656    0   -1 NI    0 no ax25      n n n n n n n n n n n n n n n n n n n n n n
CAN_RAW  728     0   -1 NI    0 no can_raw   n n n n n y n n n n n n n n n n n n n n n n
n n
PACKET   920     0   -1 NI    0 no kernel    n n n n n n n n n n n n n n n n n n n n n n
n
RAWv6   1032    0   -1 NI    0 yes kernel   y y y n y y y n y y y y n y y y y n n
UDPLITEv6 1024    0   -1 NI    0 yes kernel   y y y n y y y n y y y y n n y y y y
n
UDPv6   1024    0   16 NI    0 yes kernel   y y y n y n y n y y y y n n y y y y n
TCPv6   1856    4   56 no   304 yes kernel   y y y y y y y y y y n y n n y y y y
y
UNIX     784  1051   -1 NI    0 yes kernel    n n n n n n n n n n n n n n n n n n n n n n
n
UDP-Lite 856     0   -1 NI    0 yes kernel   y y y n y y y n y y y y y n y y y y n
RAW     832     0   -1 NI    0 yes kernel   y y y n y y y n y y y y n y y y y n n
UDP     856     4   16 NI    0 yes kernel   y y y n y n y n y y y y y n y y y y n
TCP    1688    25   56 no   304 yes kernel   y y y y y y y y y y n y n n y y y y
y
NETLINK 784     9   -1 NI    0 no kernel    n n n n n n n n n n n n n n n n n n n n n n
n

```

When I try to open a socket (e.g. with candump) I get:

```
VE:~$ candump vcan0
```

```
socket: Address family not supported by protocol
```

Have I missed something or are there any restrictions using socketcan within a VE?

Any ideas?

Thanx in advance.

Subject: Re: problem with socketcan in a VE
Posted by [curx](#) on Wed, 12 Jan 2011 18:33:38 GMT
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Hi,

can you use the candump with strace, and post the relevant info to the list, maybe open a bug report at <http://bugzilla.openvz.org>.

Bye,
Thorsten

Subject: Re: problem with socketcan in a VE
Posted by [sleepy](#) on Mon, 17 Jan 2011 11:09:24 GMT
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Thanks for your reply.

strace output:

```
VE:~# strace candump vcan0
execve("/usr/local/bin/candump", ["candump", "vcan0"], [/* 41 vars */]) = 0
brk(0)                               = 0x8bc4000
uname({sys="Linux", node="tees-ubutsvm-010", ...}) = 0
access("/etc/ld.so.nohwcap", F_OK)    = -1 ENOENT (No such file or directory)
mmap2(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7787000
access("/etc/ld.so.preload", R_OK)    = -1 ENOENT (No such file or directory)
open("/etc/ld.so.cache", O_RDONLY)    = 3
fstat64(3, {st_mode=S_IFREG|0644, st_size=49466, ...}) = 0
mmap2(NULL, 49466, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb777a000
close(3)                               = 0
access("/etc/ld.so.nohwcap", F_OK)    = -1 ENOENT (No such file or directory)
open("/lib/libc.so.6", O_RDONLY)      = 3
read(3, "\177ELF\1\1\1\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0 m\1\0004\0\0\0"... , 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=1335560, ...}) = 0
mmap2(NULL, 1345896, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7631000
mprotect(0xb7773000, 4096, PROT_NONE) = 0
mmap2(0xb7774000, 12288, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x142) = 0xb7774000
mmap2(0xb7777000, 10600, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0xb7777000
close(3)                               = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7630000
set_thread_area({entry_number:-1 -> 12, base_addr:0xb76306c0, limit:1048575, seg_32bit:1,
contents:0, read_exec_only:0, limit_in_pages:1, seg_not_present:0, useable:1}) = 0
```

```
mprotect(0xb7774000, 8192, PROT_READ) = 0
mprotect(0xb77a4000, 4096, PROT_READ) = 0
munmap(0xb777a000, 49466) = 0
rt_sigaction(SIGTERM, {0x8048b00, [TERM], SA_RESTORER|SA_RESTART, 0xb765b6a8},
{SIG_DFL, [], 0}, 8) = 0
rt_sigaction(SIGHUP, {0x8048b00, [HUP], SA_RESTORER|SA_RESTART, 0xb765b6a8},
{SIG_DFL, [], 0}, 8) = 0
rt_sigaction(SIGINT, {0x8048b00, [INT], SA_RESTORER|SA_RESTART, 0xb765b6a8},
{SIG_DFL, [], 0}, 8) = 0
socket(0x1d /* PF_??? */, SOCK_RAW, 1) = -1 EAFNOSUPPORT (Address family not supported
by protocol)
dup(2) = 3
fcntl64(3, F_GETFL) = 0x8002 (flags O_RDWR|O_LARGEFILE)
brk(0) = 0x8bc4000
brk(0x8be5000) = 0x8be5000
fstat64(3, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 8), ...}) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7786000
_llseek(3, 0, 0xbfbbb284, SEEK_CUR) = -1 ESPIPE (Illegal seek)
write(3, "socket: Address family not suppo"..., 49socket: Address family not supported by protocol
) = 49
close(3) = 0
munmap(0xb7786000, 4096) = 0
exit_group(1) = ?
```

Subject: Re: problem with socketcan in a VE
Posted by [sleepy](#) on Mon, 17 Jan 2011 15:52:46 GMT
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I created a bug report:

bugzilla.openvz.org/show_bug.cgi?id=1743

Quote:--- Comment #1 from Pavel Emelyanov 2011-01-17 09:13:13 EST ---
We don't support the CAN protocol in CTs yet.
