
Subject: Access to ifconfig denied from container (OpenVPN internet routing)

Posted by [imagenesis](#) on Wed, 19 Aug 2009 14:27:11 GMT

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I am receiving the following error when executing with a config file that attempts to route clients internet traffic:

```
Wed Aug 19 18:20:20 2009 /sbin/ifconfig tun0 10.30.0.1 pointopoint 10.30.0.2 mtu 1500
Wed Aug 19 18:20:23 2009 event_wait : Interrupted system call (code=4)
Wed Aug 19 18:20:23 2009 ERROR: Linux route delete command failed: could not execute
external program
Wed Aug 19 18:20:23 2009 /sbin/ifconfig tun0 0.0.0.0
Wed Aug 19 18:20:23 2009 Linux ip addr del failed: could not execute external program
Wed Aug 19 18:20:23 2009 SIGINT[hard,] received, process exiting
```

```
server 10.30.0.0 255.255.255.0
client-to-client
push "dhcp-option DNS ###"
push "redirect-gateway def1"
keepalive 10 120
port 1194
proto udp
dev tun
```

Subject: Re: Access to ifconfig denied from container (OpenVPN internet routing)

Posted by [imagenesis](#) on Wed, 19 Aug 2009 14:45:03 GMT

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I think this problems is stemming from the fact that openvpn didn't properly create tun0 in the first place.

Executing:

```
openvpn --mktun tun --dev tun0
Wed Aug 19 18:40:27 2009 TUN/TAP device tun0 opened
Wed Aug 19 18:40:27 2009 Cannot ioctl TUNSETPERSIST(1) tun0: Operation not permitted
(errno=1)
Wed Aug 19 18:40:27 2009 Exiting
```

How do I grant access to the container to execute:

ioctl TUNSETPERSIST(1) tun0

Subject: Re: Access to ifconfig denied from container (OpenVPN internet routing)
Posted by [maratrus](#) on Wed, 19 Aug 2009 15:49:28 GMT

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Hi,

I suppose a capability should be set.
(see man vzctl)

Could you please strace the program to find out what capability should be added.

Subject: Re: Access to ifconfig denied from container (OpenVPN internet routing)
Posted by [imagenesis](#) on Thu, 20 Aug 2009 21:09:56 GMT

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Here is the strace:

Quote:

```
execve("/usr/local/sbin/openvpn", ["openvpn", "--mktun", "tun", "--dev", "tun0"], [/* 21 vars */]) = 0
brk(0) = 0x8a66000
uname({sys="Linux", node="nixism1.memorycraze.com", ...}) = 0
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=15637, ...}) = 0
mmap2(NULL, 15637, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7f03000
close(3) = 0
open("/lib/libssl.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\240\270\0\00 04\0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=284524, ...}) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xb7f02000
mmap2(NULL, 287496, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0xb7ebb000
mmap2(0xb7efe000, 16384, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x42) = 0xb7efe000
close(3) = 0
open("/lib/libcrypto.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\3005\3\0004\ 0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=1295264, ...}) = 0
mmap2(NULL, 1308704, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0xb7d7b000
mmap2(0xb7ea4000, 77824, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x129) = 0xb7ea4000
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mmap2(0xb7eb7000, 14368, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0xb7eb7000
close(3) = 0
open("/lib/libdl.so.2", O_RDONLY) = 3
read(3, "\177ELF\1\1\1\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0P\n\0\0004\0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=14644, ...}) = 0
mmap2(NULL, 12408, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7d77000
mmap2(0xb7d79000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1) = 0xb7d79000
close(3) = 0
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\320_\1\0004\0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=1603396, ...}) = 0
mmap2(NULL, 1324452, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0)
= 0xb7c33000
mmap2(0xb7d71000, 12288, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x13e) = 0xb7d71000
mmap2(0xb7d74000, 9636, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0xb7d74000
close(3) = 0
open("/usr/lib/libgssapi_krb5.so.2", 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\320c\0\0004\0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=184812, ...}) = 0
mmap2(NULL, 183708, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7c06000
mmap2(0xb7c32000, 4096, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2c) = 0xb7c32000
close(3) = 0
open("/usr/lib/libkrb5.so.3", 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\21\1\0004\0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=609068, ...}) = 0
mmap2(NULL, 611912, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7b70000
mmap2(0xb7c03000, 12288, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x92) = 0xb7c03000
close(3) = 0
open("/lib/libcom_err.so.2", 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\340\7\0\0004\0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=6300, ...}) = 0
mmap2(NULL, 9164, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7b6d000
mmap2(0xb7b6f000, 4096, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1) = 0xb7b6f000
close(3) = 0
open("/usr/lib/libk5crypto.so.3", 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\2207\0\0004\0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=155608, ...}) = 0

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mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7b6c000
mmap2(NULL, 155040, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7b46000
mmap2(0xb7b6b000, 4096, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x25) = 0xb7b6b000
close(3) = 0
open("/lib/libresolv.so.2", 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\300 \0\0004\0\0\0"... , 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=74616, ...}) = 0
mmap2(NULL, 75976, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7b33000
mmap2(0xb7b42000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xe) = 0xb7b42000
mmap2(0xb7b44000, 6344, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0xb7b44000
close(3) = 0
open("/usr/lib/libz.so.1", 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\300\25\0\000 4\0\0\0 "... , 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=73580, ...}) = 0
mmap2(NULL, 76400, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7b20000
mmap2(0xb7b32000, 4096, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x11) = 0xb7b32000
close(3) = 0
open("/usr/lib/libkrb5support.so.0", 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\31\0\0004\0 \0\0 "... , 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=32024, ...}) = 0
mmap2(NULL, 34852, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7b17000
mmap2(0xb7b1f000, 4096, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x7) = 0xb7b1f000
close(3) = 0
open("/lib/libkeyutils.so.1", 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\20\10\0\0004 \0\0\0 "... , 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=6404, ...}) = 0
mmap2(NULL, 9208, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7b14000
mmap2(0xb7b16000, 4096, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1) = 0xb7b16000
close(3) = 0
open("/lib/libselinux.so.1", 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\0005\0\0004\ 0\0\0 "... , 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=91892, ...}) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7b13000
mmap2(NULL, 97112, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7afb000

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mmap2(0xb7b11000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x15) = 0xb7b11000
close(3) = 0
open("/lib/libsepol.so.1", O_RDONLY) = 3
read(3, "\177ELF\1\1\1\0\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0\340.\0\0004\ 0\0\0 "..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=241432, ...}) = 0
mmap2(NULL, 286624, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0xb7ab5000
mmap2(0xb7af0000, 4096, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x3a) = 0xb7af0000
mmap2(0xb7af1000, 40864, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0xb7af1000
close(3) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7ab4000
set_thread_area({entry_number:-1 -> 6, base_addr:0xb7ab4a10, limit:1048575, seg_32bit:1,
contents:0, read_exec_only:0, limit_in_pages:1, seg_not_present:0, useable:1}) = 0
mprotect(0xb7b42000, 4096, PROT_READ) = 0
mprotect(0xb7d71000, 8192, PROT_READ) = 0
mprotect(0xb7d79000, 4096, PROT_READ) = 0
mprotect(0xb7f21000, 4096, PROT_READ) = 0
munmap(0xb7f03000, 15637) = 0
access("/etc/selinux/", F_OK) = 0
brk(0) = 0x8a66000
brk(0x8a87000) = 0x8a87000
open("/etc/selinux/config", O_RDONLY|O_LARGEFILE) = -1 ENOENT (No such file or directory)
open("/proc/mounts", O_RDONLY|O_LARGEFILE) = 3
fstat64(3, {st_mode=S_IFREG|0444, st_size=0, ...}) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7f06000
read(3, "/dev/simfs / simfs rw 0 0\n/proc "..., 4096) = 173
read(3, "", 4096) = 0
close(3) = 0
munmap(0xb7f06000, 4096) = 0
gettimeofday({1250802512, 290382}, NULL) = 0
time(NULL) = 1250802512
open("/proc/sys/crypto/fips_enabled", O_RDONLY) = -1 ENOENT (No such file or directory)
rt_sigaction(SIGINT, {0x808df70, [INT], SA_RESTORER|SA_RESTART, 0xb7c5be28},
{SIG_DFL, [], 0}, = 0
rt_sigaction(SIGTERM, {0x808df70, [TERM], SA_RESTORER|SA_RESTART, 0xb7c5be28},
{SIG_DFL, [], 0}, = 0
rt_sigaction(SIGHUP, {SIG_IGN, [HUP], SA_RESTORER|SA_RESTART, 0xb7c5be28},
{SIG_DFL, [], 0}, = 0
rt_sigaction(SIGUSR1, {SIG_IGN, [USR1], SA_RESTORER|SA_RESTART, 0xb7c5be28},
{SIG_DFL, [], 0}, = 0
rt_sigaction(SIGUSR2, {SIG_IGN, [USR2], SA_RESTORER|SA_RESTART, 0xb7c5be28},
{SIG_DFL, [], 0}, = 0
rt_sigaction(SIGPIPE, {SIG_IGN, [PIPE], SA_RESTORER|SA_RESTART, 0xb7c5be28},

```


France). I hope it will be helpful in your case.
