
Subject: *SOLVED* venet, "connect: Invalid argument"
Posted by [sHaggY_caT](#) on Sat, 04 Oct 2008 19:04:41 GMT
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* <http://lists.altlinux.org/pipermail/sysadmins/2006-August/007752.html>

HN:

```
[shaggycat@hn scripts]$ cat /etc/redhat-release  
CentOS release 5.2 (Final)
```

```
[shaggycat@hn scripts]$ uname -a  
Linux hn 2.6.18-92.1.1.el5.028stab057.2 #1 SMP Mon Jul 21 20:55:45 MSD 2008 i686 i686 i386  
GNU/Linux
```

```
[shaggycat@hn scripts]$ rpm -qa | grep vz | grep -v vztmpl-  
ovzkernel-2.6.18-92.1.1.el5.028stab057.2  
vzrpm44-4.4.1-22.5  
vzrpm43-python-4.3.3-7_nonptl.6  
vzdump-1.0-2  
ovzkernel-devel-2.6.18-92.1.1.el5.028stab057.2  
vzctl-lib-3.0.22-1  
vzctl-3.0.22-1  
vzyum-2.4.0-11  
vzrpm44-python-4.4.1-22.5  
vzrpm43-4.3.3-7_nonptl.6  
vzquota-3.0.11-1  
vzpkg-2.7.0-18
```

```
[shaggycat@hn scripts]$ cat /etc/sysctl.conf | grep -v "#"  
net.ipv4.ip_forward = 1  
net.ipv4.conf.default.proxy_arp = 0  
net.ipv4.conf.all.rp_filter = 1  
kernel.sysrq = 1  
net.ipv4.conf.default.send_redirects = 1  
net.ipv4.conf.all.send_redirects = 0  
kernel.sysrq = 1  
net.ipv4.conf.default.forwarding=1
```

```
net.ipv4.conf.all.forwarding=1
```

```
10.0.5.0/24
```

```
[shaggycat@hn scripts]$ ip r ls  
10.0.10.20 dev venet0 scope link src 10.0.5.10  
10.0.10.3 dev venet0 scope link src 10.0.5.10  
10.0.9.26 dev venet0 scope link src 10.0.5.10  
10.0.10.2 dev venet0 scope link src 10.0.5.10  
10.0.9.21 dev venet0 scope link src 10.0.5.10  
10.0.9.20 dev venet0 scope link src 10.0.5.10  
10.0.10.10 dev venet0 scope link src 10.0.5.10  
10.0.5.0/24 dev eth1 proto kernel scope link src 10.0.5.10  
xx.xx.xx.xx/24 dev eth0 proto kernel scope link src xx.xx.xx.xx  
169.254.0.0/16 dev venet0 scope link  
default via xx.xx.xx.xx dev eth0
```

```
[root@test_centos_2 ~]# ifconfig venet0:0
venet0:0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
  inet addr:10.0.9.26 P-t-P:10.0.9.26 Bcast:10.0.9.26 Mask:255.255.255.255
  UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
```

```
[root@test_centos_2 ~]# ping -c 1 10.0.10.2
PING 10.0.10.2 (10.0.10.2) 56(84) bytes of data.
64 bytes from 10.0.10.2: icmp_seq=1 ttl=64 time=0.131 ms
```

```
--- 10.0.10.2 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 0.131/0.131/0.131/0.000 ms
```

```
[root@test_centos_2 ~]# ping 10.0.5.2
connect: Invalid argument
[root@test_centos_2 ~]#
[root@test_centos_2 ~]# ping 10.0.5.10
connect: Invalid argument
```

```
[root@test_centos_2 ~]# ip r ls
10.0.5.0/24 dev venet0 scope host
169.254.0.0/16 dev venet0 scope link
default via 10.0.5.10 dev venet0
[root@test_centos_2 ~]#
```

Subject: Re: venet, "connect: Invalid argument"

Posted by [maratrus](#) on Tue, 07 Oct 2008 13:12:08 GMT

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http://wiki.openvz.org/Stracing_a_program

Subject: Re: venet, "connect: Invalid argument"

Posted by [sHaggY_caT](#) on Tue, 07 Oct 2008 19:35:12 GMT

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```
[root@test-lamp ~]# strace ping 10.0.5.10
execve("/bin/ping", ["ping", "10.0.5.10"], [/* 20 vars */]) = 0
brk(0) = 0x8616000
uname({sys="Linux", node="test-lamp.loc", ...}) = 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=12998, ...}) = 0
mmap2(NULL, 12998, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7fe7000
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, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0xb7fe6000
mmap2(NULL, 75976, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x9c7000
mmap2(0x9d6000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xe) = 0x9d6000
mmap2(0x9d8000, 6344, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x9d8000
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\0000\1\0004\0\0\0"..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=1594552, ...}) = 0
mmap2(NULL, 1320356, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x187000
mmap2(0x2c4000, 12288, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x13c) = 0x2c4000
mmap2(0x2c7000, 9636, PROT_READ|PROT_WRITE,
```

```

MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x2c7000
close(3) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7fe5000
set_thread_area({entry_number:-1 -> 6, base_addr:0xb7fe56c0, limit:1048575, seg_32bit:1,
contents:0, read_exec_only:0, limit_in_pages:1, seg_not_present:0, useable:1}) = 0
mprotect(0x2c4000, 8192, PROT_READ) = 0
mprotect(0x9d6000, 4096, PROT_READ) = 0
mprotect(0x39c000, 4096, PROT_READ) = 0
munmap(0xb7fe7000, 12998) = 0
socket(PF_INET, SOCK_RAW, IPPROTO_ICMP) = 3
getuid32() = 0
setuid32(0) = 0
socket(PF_INET, SOCK_DGRAM, IPPROTO_IP) = 4
connect(4, {sa_family=AF_INET, sin_port=htons(1025), sin_addr=inet_addr("10.0.5.10")}, 16) = -1
EINVAL (Invalid argument)
dup(2) = 5
fcntl64(5, F_GETFL) = 0x8002 (flags O_RDWR|O_LARGEFILE)
brk(0) = 0x8616000
brk(0x8637000) = 0x8637000
fstat64(5, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 0), ...}) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7fea000
_llseek(5, 0, 0xbff1b324, SEEK_CUR) = -1 ESPIPE (Illegal seek)
write(5, "connect: Invalid argument\n", 26connect: Invalid argument
) = 26
close(5) = 0
munmap(0xb7fea000, 4096) = 0
exit_group(2) = ?
[root@test-lamp ~]# strace ping 10.0.5.10
execve("/bin/ping", ["ping", "10.0.5.10"], [/* 20 vars */]) = 0
brk(0) = 0x8885000
uname({sys="Linux", node="test-lamp.loc", ...}) = 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=12998, ...}) = 0
mmap2(NULL, 12998, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7f78000
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, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7f77000
mmap2(NULL, 75976, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0x373000
mmap2(0x382000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xe) = 0x382000
mmap2(0x384000, 6344, PROT_READ|PROT_WRITE,

```

```

MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x384000
close(3) = 0
open("/lib/libc.so.6", O_RDONLY) = 3
read(3, "\177ELF\1\1\0\0\0\0\0\0\0\0\3\0\3\0\1\0\0\0000_\1\0004\0\0\0"..., 512) = 512
fstat64(3, {st_mode=S_IFREG|0755, st_size=1594552, ...}) = 0
mmap2(NULL, 1320356, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0)
= 0x7fd000
mmap2(0x93a000, 12288, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x13c) = 0x93a000
mmap2(0x93d000, 9636, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x93d000
close(3) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7f76000
set_thread_area({entry_number:-1 -> 6, base_addr:0xb7f766c0, limit:1048575, seg_32bit:1,
contents:0, read_exec_only:0, limit_in_pages:1, seg_not_present:0, useable:1}) = 0
mprotect(0x93a000, 8192, PROT_READ) = 0
mprotect(0x382000, 4096, PROT_READ) = 0
mprotect(0xf47000, 4096, PROT_READ) = 0
munmap(0xb7f78000, 12998) = 0
socket(PF_INET, SOCK_RAW, IPPROTO_ICMP) = 3
getuid32() = 0
setuid32(0) = 0
socket(PF_INET, SOCK_DGRAM, IPPROTO_IP) = 4
connect(4, {sa_family=AF_INET, sin_port=htons(1025), sin_addr=inet_addr("10.0.5.10")}, 16) = -1
EINVAL (Invalid argument)
dup(2) = 5
fcntl64(5, F_GETFL) = 0x8002 (flags O_RDWR|O_LARGEFILE)
brk(0) = 0x8885000
brk(0x88a6000) = 0x88a6000
fstat64(5, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 0), ...}) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7f7b000
_llseek(5, 0, 0xbf839c44, SEEK_CUR) = -1 ESPIPE (Illegal seek)
write(5, "connect: Invalid argument\n", 26connect: Invalid argument
) = 26
close(5) = 0
munmap(0xb7f7b000, 4096) = 0
exit_group(2) = ?
[root@test-lamp ~]#

```

```
[root@test-lamp ~]# diff 10.0.5.10 10.0.5.2
```

```

2c2
< brk(0)                = 0x8cb5000
---
> brk(0)                = 0x8949000
7c7
< mmap2(NULL, 12998, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7f48000
---
> mmap2(NULL, 12998, PROT_READ, MAP_PRIVATE, 3, 0) = 0xb7fb4000
12,15c12,15
< mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0)
= 0xb7f47000
< mmap2(NULL, 75976, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0x8ab000
< mmap2(0x8ba000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xe) = 0x8ba000
< mmap2(0x8bc000, 6344, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x8bc000
---
> mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0)
= 0xb7fb3000
> mmap2(NULL, 75976, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0x308000
> mmap2(0x317000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xe) = 0x317000
> mmap2(0x319000, 6344, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x319000
20,22c20,22
< mmap2(NULL, 1320356, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3,
0) = 0xe69000
< mmap2(0xfa6000, 12288, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x13c) = 0xfa6000
< mmap2(0xfa9000, 9636, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0xfa9000
---
> mmap2(NULL, 1320356, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3,
0) = 0x110000
> mmap2(0x24d000, 12288, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x13c) = 0x24d000
> mmap2(0x250000, 9636, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x250000
24,29c24,29
< mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0)
= 0xb7f46000
< set_thread_area({entry_number:-1 -> 6, base_addr:0xb7f466c0, limit:1048575, seg_32bit:1,
contents:0, read_exec_only:0, limit_in_pages:1, seg_not_present:0, useable:1}) = 0
< mprotect(0xfa6000, 8192, PROT_READ)    = 0
< mprotect(0x8ba000, 4096, PROT_READ)    = 0
< mprotect(0x89b000, 4096, PROT_READ)    = 0

```

```
< munmap(0xb7f48000, 12998)          = 0
---
> mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0)
= 0xb7fb2000
> set_thread_area({entry_number:-1 -> 6, base_addr:0xb7fb26c0, limit:1048575, seg_32bit:1,
contents:0, read_exec_only:0, limit_in_pages:1, seg_not_present:0, useable:1}) = 0
> mprotect(0x24d000, 8192, PROT_READ) = 0
> mprotect(0x317000, 4096, PROT_READ) = 0
> mprotect(0xdd7000, 4096, PROT_READ) = 0
> munmap(0xb7fb4000, 12998)          = 0
[root@test-lamp ~]#
```

Subject: Re: venet, "connect: Invalid argument"
Posted by [maratrus](#) on Wed, 08 Oct 2008 10:44:47 GMT
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Quote:

```
[root@test_centos_2 ~]# ip r ls
10.0.5.0/24 dev venet0 scope host
169.254.0.0/16 dev venet0 scope link
default via 10.0.5.10 dev venet0
[root@test_centos_2 ~]#
```

Quote:

host - the address is valid only inside this host.

Subject: Re: venet, "connect: Invalid argument"
Posted by [sHaggY_caT](#) on Sat, 18 Oct 2008 18:54:18 GMT
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