
Subject: iptables: Error inserting x_tables
Posted by [john33](#) on Fri, 23 Oct 2009 08:33:08 GMT
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Hi,

I'm trying to configure NAT inside a VE with this command:

```
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
```

But I get this error:

Quote:

```
WARNING: Error inserting x_tables (/lib/modules/2.6.24-24-openvz/kernel/net/netfilter/x_tables
.ko): Operation not permitted
FATAL: Error inserting ip_tables (/lib/modules/2.6.24-24-openvz/kernel/net/ipv4/netfilter/ip_
tables.ko): Operation not permitted
iptables v1.3.8: can't initialize iptables table `nat': Table does not exist (do you need to insmod?)
Perhaps iptables or your kernel needs to be upgraded.
```

When I run lsmod in the VE the result is empty. And I know that loading a kernel module inside a VE is not allowed.

On the host however, the right iptables modules are listed in lsmod.

What is wrong with my configuration ? Here is the content of the VE conf file:

Quote:

```
# Configuration file generated by vzsplite for 100 VEs
# on HN with total amount of physical mem 32148 Mb
# low memory 32148 Mb, swap size 3718 Mb, Max treads 8000
# Resource commit level 0:
# Free resource distribution. Any parameters may be increased
# Primary parameters
NUMPROC="1646:1646"
AVNUMPROC="823:823"
NUMTCPSOCK="1646:1646"
NUMOTHERSOCK="1646:1646"
VMGUARPAGES="58771:9223372036854775807"

# Secondary parameters
KMEMSIZE="67421143:74163257"
TCPSNDBUF="15731698:22473714"
TCPRCVBUF="15731698:22473714"
OTHERSOCKBUF="7865849:14607865"
DGRAMRCVBUF="7865849:7865849"
OOMGUARPAGES="58771:9223372036854775807"
PRIVVMPAGES="352626:387888"
```

```
# Auxiliary parameters
LOCKEDPAGES="3292:3292"
SHMPAGES="35262:35262"
PHYSAPAGES="0:9223372036854775807"
NUMFILE="26336:26336"
NUMFLOCK="1000:1100"
NUMPTY="164:164"
NUMSIGINFO="1024:1024"
DCACHESIZE="14727704:15169536"
NUMIPTENT="20:20"
DISKSPACE="204799:225280"
DISKINODES="80000:88000"
CPUUNITS="10534"

DISK_QUOTA=no
VE_ROOT=/data/7016f358-4c78-4aa0-bfe6-5a9c64be2a5b/root
  VE_PRIVATE=/data/7016f358-4c78-4aa0-bfe6-5a9c64be2a5b/private
OSTEMPLATE="ubuntu-8.04"
IPTABLES="ipt_REJECT x_tables ip_tables ipt_tos ipt_limit ipt_multiport iptable_filter
iptables_mangle ipt_TCPMSS ipt_tcpmss ipt_ttl ipt_length"
```

Thanks

Subject: Re: iptables: Error inserting x_tables
Posted by [john33](#) on Fri, 23 Oct 2009 08:43:53 GMT
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ok I just missed the iptable_nat module to add to the IPTABLES configuration file line.

Resolved

Subject: Re: iptables: Error inserting x_tables
Posted by [john33](#) on Thu, 01 Apr 2010 14:57:18 GMT
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Hi,

I'm facing a new issue with the following command in the VE:

Quote:

```
# iptables -L -t raw
WARNING: Error inserting x_tables (/lib/modules/2.6.24/kernel/net/netfilter/x_tables.ko):
Operation not permitted
FATAL: Error inserting ip_tables (/lib/modules/2.6.24/kernel/net/ipv4/netfilter/ip_tables.ko) :
```

Operation not permitted

iptables v1.3.8: can't initialize iptables table `raw': Table does not exist (do you need to insmod?)
Perhaps iptables or your kernel needs to be upgraded.

Here is the IPTABLES line of /etc/vz/conf/veid.conf:

Quote:

```
IPTABLES="ip_tables iptable_nat ip_conntrack ipt_REJECT ipt_TCPMSS ipt_tos ipt_limit  
ipt_multiport iptable_filter iptable_mangle ipt_TCPMSS ipt_tcpmss ipt_ttl ipt_length ipt_state  
ipt_helper ipt_LOG ipt_TOS ip_conntrack_ftp ip_conntrack_irc ipt_conntrack ip_nat_ftp ip_nat_irc  
ipt_REDIRECT xt_mac ipt_owner"
```

However, the following command works:

Quote:

```
# iptable -L -t nat
```

```
Chain PREROUTING (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain POSTROUTING (policy ACCEPT)
```

```
target prot opt source destination
```

```
MASQUERADE all -- anywhere anywhere
```

```
Chain OUTPUT (policy ACCEPT)
```

```
target prot opt source destination
```

Here is the output of lsmod on the host:

Quote:

```
$ lsmod
```

Module	Size	Used by
kvm	110816	0
vzethdev	23552	0
vznetdev	33160	1
simfs	14448	1
vzrst	153000	0
vzcpt	128312	0
tun	23168	2 vzrst,vzcpt
vzdquota	57712	1 [permanent]
vzmon	53520	5 vzethdev,vznetdev,vzrst,vzcpt
vzdev	12808	8 vzethdev,vznetdev,vzdquota,vzmon
xt_tcpudp	12416	0
xt_length	10880	0
ipt_ttl	10752	0
xt_tcpmss	11264	0
xt_TCPMSS	13696	0
iptable_mangle	13824	1

```

xt_multiport      12288 0
xt_limit          12160 0
ipt_tos           10496 0
ipt_REJECT        13952 0
cpufreq_powersave 10624 0
cpufreq_userspace 14852 0
cpufreq_stats     16288 0
cpufreq_conservative 18056 0
cpufreq_ondemand 18576 0
freq_table        14336 2 cpufreq_stats,cpufreq_ondemand
sbs               25232 0
sbshc             16384 1 sbs
container         14080 0
dock              20384 0
video             30100 0
output            13184 1 video
battery           24200 0
iptables_filter   13696 1
ipv6              336960 27 vzrst,vzcpt,vzmon
xt_conntrack      12800 0
nf_conntrack_irc  16544 0
nf_conntrack_ftp  19368 0
iptables_raw      11392 0
ipt_MASQUERADE    11648 1
xt_state          11520 0
iptables_nat      19460 3
ip_tables         33256 4 iptable_mangle,iptables_filter,iptables_raw,iptables_nat
nf_nat            31376 2 ipt_MASQUERADE,iptables_nat
x_tables          33288 14 xt_tcpudp,xt_length,ipt_ttl,xt_tcpmss,xt_TCPMSS,xt_multiport
,xt_limit,ipt_tos,ipt_REJECT,xt_conntrack,ipt_MASQUERADE,xt_state,iptables_nat,ip_tables
nf_conntrack_ipv4 36496 4 iptable_nat
nf_conntrack      100960 7 xt_conntrack,nf_conntrack_irc,nf_conntrack_ftp,xt_state,ipta
ble_nat,nf_nat,nf_conntrack_ipv4
lp                22340 0
af_packet         35592 10
snd_intel8x0      47784 2
snd_ac97_codec    130264 1 snd_intel8x0
ac97_bus          11264 1 snd_ac97_codec
parport_pc        48552 0
snd_pcm           95112 2 snd_intel8x0,snd_ac97_codec
pcspkr           12160 0
snd_timer         34824 1 snd_pcm
parport           52364 2 lp,parport_pc
serio_raw         16516 0
evdev             22528 3
ac                15752 0
psmouse           53788 0
button            18336 0

```

```

i2c_piix4      18316 0
snd            76968 8 snd_intel8x0,snd_ac97_codec,snd_pcm,snd_timer
soundcore     17824 1 snd
snd_page_alloc 19984 2 snd_intel8x0,snd_pcm
i2c_core      35968 1 i2c_piix4
ext3          156560 1
jbd           64424 1 ext3
mbcache       18816 1 ext3
sg            48920 0
sr_mod        27556 0
cdrom         49064 1 sr_mod
sd_mod        40704 3
pata_acpi     17280 0
ata_generic   17412 0
ehci_hcd      48268 0
ohci_hcd      38020 0
floppy        76136 0
ata_piix      31620 2
usbcore       176688 3 ehci_hcd,ohci_hcd
ssb           44676 1 ohci_hcd
e1000         144576 0
libata        183088 3 pata_acpi,ata_generic,ata_piix
scsi_mod      186168 4 sg,sr_mod,sd_mod,libata
thermal       27168 0
processor     49864 1 thermal
fan           14216 0
fuse          64528 5

```

What modules may I have missed on the host, or may I have to add to IPTABLES in the conf file? (I have tried iptable_raw, ipt_recent and xt_conntrack but I get an "Unknown iptable module: XXX skipped" error when entering with vzctl.

Thanks
