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Subject: [SOLVED] IPTables connection tracking stopped working.

Posted by [non7top](#) on Sat, 19 Oct 2013 12:49:58 GMT

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Hello everyone.

Just about yesterday I decided to reboot several of my containers just to realize that iptables --state rules stopped working. I still have one container running without reboot(for 23 days) which has these rules working as expected. I don't think I made changes on containers iptables rules, but did make some changes on VE0, including several os updates. Ping from inside the container work just fine.

Here are the relevant config outputs.

VE0 iptables/route

```
# iptables-save
# Generated by iptables-save v1.4.7 on Sat Oct 19 16:38:33 2013
*mangle
:PREROUTING ACCEPT [104195:74172610]
:INPUT ACCEPT [22158:2977388]
:FORWARD ACCEPT [82037:71195222]
:OUTPUT ACCEPT [17925:31501333]
:POSTROUTING ACCEPT [99962:102696555]
COMMIT
# Completed on Sat Oct 19 16:38:33 2013
# Generated by iptables-save v1.4.7 on Sat Oct 19 16:38:33 2013
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [17925:31501333]
-A INPUT -m state --state RELATED,ESTABLISHED -j ACCEPT
-A INPUT -p icmp -j ACCEPT
-A INPUT -i lo -j ACCEPT
-A INPUT -p tcp -m state --state NEW -m tcp --dport 45510 -j ACCEPT
-A INPUT -p tcp -m state --state NEW -m tcp --dport 80 -j ACCEPT
-A INPUT -p tcp -m state --state NEW -m tcp --dport 8080:8081 -j ACCEPT
-A INPUT -p tcp -m state --state NEW -m tcp --dport 20:21 -j ACCEPT
-A INPUT -p tcp -m state --state NEW -m tcp --dport 30000:31000 -j ACCEPT
-A INPUT -p udp -m udp --dport 33434:33523 -j REJECT --reject-with icmp-port-unreachable
-A INPUT -p udp -m udp --dport 44450:44500 -j REJECT --reject-with icmp-port-unreachable
-A INPUT -j REJECT --reject-with icmp-host-prohibited
-A FORWARD -s 37.200.71.8/29 -j ACCEPT
-A FORWARD -d 37.200.71.8/29 -j ACCEPT
-A FORWARD -s 192.168.11.0/24 -j ACCEPT
-A FORWARD -d 192.168.11.0/24 -j ACCEPT
-A FORWARD -j REJECT --reject-with icmp-host-prohibited
COMMIT
# Completed on Sat Oct 19 16:38:33 2013
# Generated by iptables-save v1.4.7 on Sat Oct 19 16:38:33 2013
```

```

*nat
:PREROUTING ACCEPT [2912:166427]
:POSTROUTING ACCEPT [1639:93157]
:OUTPUT ACCEPT [98:5998]
-A PREROUTING -d 37.200.71.10/32 -i eth0 -p tcp -m tcp --dport 10080 -j DNAT --to-destination
192.168.11.1:80
-A PREROUTING -d 37.200.71.10/32 -i eth0 -p tcp -m tcp --dport 45511 -j DNAT --to-destination
192.168.11.1:22
-A PREROUTING -d 37.200.71.10/32 -i eth0 -p tcp -m tcp --dport 10082 -j DNAT --to-destination
192.168.11.2:80
-A PREROUTING -d 37.200.71.10/32 -i eth0 -p tcp -m tcp --dport 45512 -j DNAT --to-destination
192.168.11.2:22
-A POSTROUTING -s 192.168.11.1/32 -o eth0 -j SNAT --to-source 37.200.71.10
-A POSTROUTING -s 192.168.11.2/32 -o eth0 -j SNAT --to-source 37.200.71.10
COMMIT
# Completed on Sat Oct 19 16:38:33 2013

```

```

# ip r
192.168.11.1 dev venet0 scope link
37.200.71.14 dev venet0 scope link
37.200.71.13 dev venet0 scope link
37.200.71.12 dev venet0 scope link
37.200.71.11 dev venet0 scope link
37.200.71.8/29 dev eth0 proto kernel scope link src 37.200.71.10
default via 37.200.71.9 dev eth0

```

```

# lsmod|grep -e ip_ -e xt_ -e nf_ -e ipta
xt_length          1338  0
xt_hl              1547  0
xt_tcmrss          1623  0
xt_TCPMSS          3461  0
iptable_mangle     3493  0
xt_multiport        2716  0
xt_limit            2134  0
xt_dscp             2073  0
nf_nat_ftp          3523  0
nf_conntrack_ftp    12929  1 nf_nat_ftp
xt_DSCP             2849  0
xt_state            1508  10
iptable_filter      2937  5
iptable_nat         6302  1
nf_nat              23213  3 vzrst,nf_nat_ftp,iptable_nat
nf_conntrack_ipv4   9946  13 iptable_nat,nf_nat
nf_conntrack        80524  8 vzrst,vzcpt,nf_nat_ftp,nf_conntrack_ftp,xt_state,iptable_nat
,nf_nat,nf_conntrack_ftp
nf_defrag_ipv4      1531  1 nf_conntrack_ipv4
ip_tables           18151  3 iptable_mangle,iptable_filter,iptable_nat

```

```

vz.conf
# cat /etc/vz/vz.conf
## Global parameters
VIRTUOZZO=yes
LOCKDIR=/vz/lock
DUMPDIR=/vz/dump
VE0CPUUNITS=1000
VE_STOP_MODE=suspend

## Logging parameters
LOGGING=yes
LOGFILE=/var/log/vzctl.log
LOG_LEVEL=0
VERBOSE=0

## Disk quota parameters
DISK_QUOTA=yes
VZFASTBOOT=no

# Disable module loading. If set, vz initscript does not load any modules.
#MODULES_DISABLED=yes

# The name of the device whose IP address will be used as source IP for CT.
# By default automatically assigned.
#VE_ROUTE_SRC_DEV="eth0"

# Uncomment to limit CT IP ARP announces only to network interfaces
# having IPs within the same IP network as a container IP.
# Leave commented out to use all interfaces.
#NEIGHBOUR_DEVS=detect

## Fail if there is another machine in the network with the same IP
ERROR_ON_ARPFAIL="no"

## Template parameters
TEMPLATE=/vz/template

## Defaults for containers
VE_ROOT=/vz/root/$VEID
VE_PRIVATE=/vz/private/$VEID
CONFIGFILE="vswap-256m"
DEF_OSTEMPLATE="centos-6-x86"
NAMESERVER=inherit # Copy from host system's /etc/resolv.conf
## Filesystem layout for new CTs: either simfs (default) or ploop
#VE_LAYOUT=ploop

```

```

# User namespace configuration
LOCAL_UID=100000
LOCAL_GID=100000

## Load vzwdog module
VZWDOG="no"

## IPv4 iptables kernel modules to be enabled in CTs by default
IPTABLES="ipt_REJECT ipt_tos ipt_limit ipt_multiport iptable_filter iptable_mangle ipt_TCPMSS
ipt_TCPMSS ipt_ttl ipt_length"
## IPv4 iptables kernel modules to be loaded by init.d/vz script
IPTABLES_MODULES="$IPTABLES"

## Enable IPv6
IPV6="no"

## IPv6 ip6tables kernel modules
IP6TABLES="ip6_tables ip6table_filter ip6table_mangle ip6t_REJECT"

```

## Working VE101 iptables

```

# iptables -vnL
Chain INPUT (policy DROP 0 packets, 0 bytes)
pkts bytes target  prot opt in   out    source          destination
 19M  43G ACCEPT  all  --  lo    *      0.0.0.0/0        0.0.0.0/0
     0    0 ACCEPT  all  --  venet0:0 *      0.0.0.0/0        0.0.0.0/0
 58M  15G ACCEPT  all  --  venet0 *      0.0.0.0/0        0.0.0.0/0      state
RELATED,ESTABLISHED
 200 7124 REJECT  udp  --  *      *      0.0.0.0/0        0.0.0.0/0      udp dpts:33434:33523
reject-with icmp-port-unreachable
     0    0 REJECT  udp  --  *      *      0.0.0.0/0        0.0.0.0/0      udp dpts:44450:44500
reject-with icmp-port-unreachable
1563K 89M ALLOW   all  --  *      *      0.0.0.0/0        0.0.0.0/0
19503 1292K LOGDROP all  --  *      *      0.0.0.0/0        0.0.0.0/0

Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
pkts bytes target  prot opt in   out    source          destination

Chain OUTPUT (policy ACCEPT 103M packets, 143G bytes)
pkts bytes target  prot opt in   out    source          destination

Chain ALLOW (1 references)
pkts bytes target  prot opt in   out    source          destination
  95  5668 ACCEPT  tcp  --  venet0 *      0.0.0.0/0        0.0.0.0/0      tcp dpt:45510
1476K 83M ACCEPT  tcp  --  venet0 *      0.0.0.0/0        0.0.0.0/0      tcp dpt:80
   84  4000 ACCEPT  tcp  --  venet0 *      0.0.0.0/0        0.0.0.0/0      tcp dpt:8080

```

```

21689 1210K ACCEPT    tcp -- venet0 *      0.0.0.0/0      0.0.0.0/0      0.0.0.0/0      0.0.0.0/0      tcp dpts:20:21
45216 3588K ACCEPT    icmp -- venet0 *     0.0.0.0/0      0.0.0.0/0      0.0.0.0/0      0.0.0.0/0

Chain LOGDROP (1 references)
pkts bytes target  prot opt in   out   source           destination
19503 1292K LOG     all  --  *   *     0.0.0.0/0      0.0.0.0/0      LOG flags 0 level 7 prefix
`IPT_DROP: '
19503 1292K DROP   all  --  *   *     0.0.0.0/0      0.0.0.0/0

```

Non working VE102  
iptables

```
# iptables -vnL
Chain INPUT (policy DROP 0 packets, 0 bytes)
pkts bytes target  prot opt in   out   source           destination
8222 9208K ACCEPT  all  --  lo   *     0.0.0.0/0      0.0.0.0/0
0    0 ACCEPT    all  --  venet0:0 *   0.0.0.0/0      0.0.0.0/0
0    0 ACCEPT    all  --  *   *     0.0.0.0/0      0.0.0.0/0      state
RELATED,ESTABLISHED
0    0 REJECT   udp  --  *   *     0.0.0.0/0      0.0.0.0/0      udp dpts:33434:33523
reject-with icmp-port-unreachable
0    0 REJECT   udp  --  *   *     0.0.0.0/0      0.0.0.0/0      udp dpts:44450:44500
reject-with icmp-port-unreachable
11603 817K ALLOW   all  --  *   *     0.0.0.0/0      0.0.0.0/0
68 10972 LOGDROP  all  --  *   *     0.0.0.0/0      0.0.0.0/0
```

```
Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
pkts bytes target  prot opt in   out   source           destination
Chain OUTPUT (policy ACCEPT 37542 packets, 48M bytes)
pkts bytes target  prot opt in   out   source           destination
```

```
Chain ALLOW (1 references)
pkts bytes target  prot opt in   out   source           destination
103 10396 ACCEPT  tcp  --  venet0 *   0.0.0.0/0      0.0.0.0/0      tcp dpt:45510
11391 792K ACCEPT  tcp  --  venet0 *   0.0.0.0/0      0.0.0.0/0      tcp dpt:80
0    0 ACCEPT    tcp  --  venet0 *   0.0.0.0/0      0.0.0.0/0      tcp dpt:8080
0    0 ACCEPT    tcp  --  venet0 *   0.0.0.0/0      0.0.0.0/0      tcp dpts:20:21
0    0 ACCEPT    tcp  --  venet0 *   0.0.0.0/0      0.0.0.0/0      tcp dpt:53
39 2718 ACCEPT   udp  --  venet0 *   0.0.0.0/0      0.0.0.0/0      udp dpt:53
2   148 ACCEPT   icmp --  venet0 *   0.0.0.0/0      0.0.0.0/0
```

```
Chain LOGDROP (1 references)
pkts bytes target  prot opt in   out   source           destination
68 10972 LOG     all  --  *   *     0.0.0.0/0      0.0.0.0/0      LOG flags 0 level 7 prefix
`IPT_DROP: '
```

68 10972 DROP all -- \* \* 0.0.0.0/0 0.0.0.0/0

From dmesg, blocked by LOGDROP

[ 5618.085257] IPT\_DROP: IN=venet0 OUT= MAC= SRC=8.8.8.8 DST=37.200.71.12 LEN=72 TOS=0x00 PREC=0x00 TTL=51 ID=55483 PROTO=UDP SPT=53 DPT=46732 LEN=52

[ 5618.092405] IPT\_DROP: IN=venet0 OUT= MAC= SRC=8.8.8.8 DST=37.200.71.12 LEN=121 TOS=0x00 PREC=0x00 TTL=51 ID=56508 PROTO=UDP SPT=53 DPT=46732 LEN=101

[ 5619.105489] IPT\_DROP: IN=venet0 OUT= MAC= SRC=8.8.8.8 DST=37.200.71.12 LEN=179 TOS=0x00 PREC=0x00 TTL=51 ID=55484 PROTO=UDP SPT=53 DPT=50782 LEN=159

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Subject: Re: IPTables connection tracking stopped working.

Posted by [non7top](#) on Sun, 20 Oct 2013 13:19:27 GMT

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Nevermind. It was the vz.conf missing the nf\_conntrack module. I had to restart the vz service first and then restart the vm itself for the setting to get applied.

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