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Subject: ip\_conntrack: CT 0: table full, dropping packet.

Posted by [mavines](#) on Tue, 27 Oct 2009 01:55:10 GMT

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Hi,

I have the major problem with networking - /var/log/messages reports this:  
ip\_conntrack: CT 0: table full, dropping packet.

And I have CentOS 5.4, kernel:

```
Linux 2.6.18-128.2.1.el5.028stab064.7xen #1 SMP Wed Aug 26 16:41:55 MSD 2009 x86_64
x86_64 x86_64 GNU/Linux
```

```
# ip rule list
```

```
0: from all lookup 255
32766: from all lookup main
32767: from all lookup default
```

the iptables rules are attached, tcpdump is attached as well.

here is the lsmod of main server:

Module	Size	Used by
iptable_nat	43532	0
tun	47872	2
xt_physdev	35984	0
bridge	94384	1 xt_physdev
netloop	40324	0
netbk	129984	0 [permanent]
blktap	151460	2 [permanent]
blkbk	54712	0 [permanent]
vzethdev	47520	0
vznetdev	56848	8
simfs	38296	4
vzrst	172968	0
ip_nat	53392	2 iptable_nat,vzrst
vzcpt	150840	0
vzdquota	78320	4 [permanent]
vzmon	83864	8 vzethdev,vznetdev,vzrst,vzcpt
vzdev	36872	4 vzethdev,vznetdev,vzdquota,vzmon
xt_tcpmss	35328	0
ipt_tos	34560	0
xt_tcpudp	36224	245
xt_conntrack	36352	0
ip_conntrack_irc	41168	0
xt_state	35200	23
ip_conntrack_ftp	42192	0

```

xt_multiport      36224 4
xt_length         34944 0
xt_mac           34944 0
xt_limit         36352 46
ipt_TCPMSS       37248 1
iptables_mangle  37888 5
iptables_filter  37760 6
ipt_TOS          35200 14
ipt_ULOG         42504 0
ip_conntrack     100884 8 iptable_nat,vzrst,ip_nat,vzcpt,xt_conntrack,ip_conntrack_irc
,xt_state,ip_conntrack_ftp
ipt_recent       43404 45
ipt_ecn          35200 0
ipt_owner        34944 0
ip_tables        57440 3 iptable_nat,iptables_mangle,iptables_filter
ipt_ttl          34816 0
ipt_REJECT       39684 42
ipt_LOG          39808 40
nfnetlink        40392 2 ip_nat,ip_conntrack
x_tables         52616 21 iptable_nat,xt_physdev,xt_tcpmss,ipt_tos,xt_tcpudp,xt_connr
ack,xt_state,xt_multiport,xt_length,xt_mac,xt_limit,ipt_TCPM
SS,ipt_TOS,ipt_ULOG,ipt_recent,ipt_ecn,ipt_owner,ip_tables,i pt_ttl,ipt_REJECT,ipt_LOG
autofs4          57480 2
hidp             83584 2
rfcomm           104872 0
l2cap            89216 10 hidp,rfcomm
bluetooth        118916 5 hidp,rfcomm,l2cap
lockd            101776 0
sunrpc           201416 2 lockd
ipv6             456124 435 vzrst,vzcpt,vzmon
xfrm_nalgo       43268 1 ipv6
crypto_api       42880 1 xfrm_nalgo
ib_iser          66936 0
rdma_cm          67092 1 ib_iser
ib_cm            67752 1 rdma_cm
iw_cm            43400 1 rdma_cm
ib_sa            74760 2 rdma_cm,ib_cm
ib_mad           70820 2 ib_cm,ib_sa
ib_core          93700 6 ib_iser,rdma_cm,ib_cm,iw_cm,ib_sa,ib_mad
ib_addr          42128 1 rdma_cm
iscsi_tcp        57856 0
libiscsi         63488 2 ib_iser,iscsi_tcp
scsi_transport_iscsi 66960 5 ib_iser,iscsi_tcp,libiscsi
loop             48656 4
dm_mirror        54280 0
dm_multipath     55192 0
scsi_dh          41600 1 dm_multipath
raid0            40448 1

```

```

video          53004 0
hwmon          36488 0
backlight      39808 1 video
sbs            49856 0
i2c_ec         38528 1 sbs
container      37760 0
button         40480 0
battery        43784 0
asus_acpi      50724 0
ac             38664 0
lp             47056 0
snd_hda_intel  481584 0
snd_seq_dummy  36996 0
snd_seq_oss    65408 0
snd_seq_midi_event 40960 1 snd_seq_oss
snd_seq        87968 5 snd_seq_dummy,snd_seq_oss,snd_seq_midi_event
snd_seq_device 41492 3 snd_seq_dummy,snd_seq_oss,snd_seq
snd_pcm_oss    77440 0
snd_mixer_oss  49920 1 snd_pcm_oss
snd_pcm        116872 2 snd_hda_intel,snd_pcm_oss
snd_timer      57224 2 snd_seq,snd_pcm
snd_page_alloc 43920 2 snd_hda_intel,snd_pcm
r8169          71172 0
snd_hwdep      43528 1 snd_hda_intel
snd            99496 9 snd_hda_intel,snd_seq_oss,snd_seq,snd_seq_device,snd_pcm_oss
,snd_mixer_oss,snd_pcm,snd_timer,snd_hwdep
mii            38784 1 r8169
i2c_i801       41620 0
soundcore      41760 1 snd
parport_pc     62248 1
pcspkr         36224 0
i2c_core       56064 2 i2c_ec,i2c_i801
ohci1394       67928 0
shpchp         70572 0
parport        73868 2 lp,parport_pc
ieee1394       390648 1 ohci1394
r8168          95000 0
sg             69544 0
serial_core    56192 0
dm_raid45      98704 0
dm_message     36096 1 dm_raid45
dm_region_hash 46336 1 dm_raid45
dm_log         44800 3 dm_mirror,dm_raid45,dm_region_hash
dm_mod         100560 4 dm_mirror,dm_multipath,dm_raid45,dm_log
dm_mem_cache   39424 1 dm_raid45
ahci           68744 4
libata         208784 1 ahci
sd_mod         56448 7

```

```
scsi_mod          197528 8 ib_iser,iscsi_tcp,libiscsi,scsi_transport_iscsi,scsi_dh,sg,l
ibata,sd_mod
ext3              168848 2
jbd              102512 1 ext3
uhci_hcd         57496 0
ohci_hcd         55988 0
ehci_hcd         65676 0
```

So, firstly I had a problem with orphaned sockets (it persisted about 6 months, but I did not paid enough attention), then server started to fail and I somehow fixed the problem with orphaned sockets at CT300. But instead I've got the problem with ip\_contrack which lasts for 2 weeks already and I am not able to figure out why.

sysctl -A output is also attached.

So, my server for now gets overflowed at least once by day and I have to increase max value for ip\_contrack, but this helps only for few hours, then I have to reboot the server or it just hangs without response.

I was suspecting that this is an attack (like DDoS) but even when the server has very few connections, it gets overflowed. And that is really nasty.

Can you please help with that?

Yes, another detail - I have 4 OpenVZ VPSs and 2 XEN VPSs running on the same server. It has 8 GB RAM and 1.5 TB HDD - Core Quad Intel CPU.

### File Attachments

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- 1) [iptables\\_rules.txt](#), downloaded 568 times
  - 2) [tcpdump.txt](#), downloaded 543 times
  - 3) [sysctl.txt](#), downloaded 564 times
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Subject: Re: ip\_contrack: CT 0: table full, dropping packet.

Posted by [kir](#) on Tue, 27 Oct 2009 09:33:56 GMT

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This is not really openvz specific, google for ip\_contrack table full dropping packet and you will find the answers.

In short -- check why there are so many entries by analyzing /proc/net/ip\_contrack, and either fix the issues found (maybe somebody is attacking you), or increase /proc/sys/net/ipv4/ip\_contrack\_max.

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Subject: Re: ip\_conntrack: CT 0: table full, dropping packet.

Posted by [mavines](#) on Tue, 27 Oct 2009 10:59:59 GMT

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Thanks for the answer. Obviously I did the google search for my problem. I thought it is attack - but really it is not. Even my own connections to server stays in the /proc/net/ip\_conntrack for long time. As I told, I was increasing the /proc/sys/net/ipv4/ip\_conntrack\_max even 4x, but still this does not fix the issue. Further more, as soon as OpenVZ (service vz restart) restart - the /proc/sys/net/ipv4/ip\_conntrack\_max comes back to initial value. Even though I have it hard written in the /etc/sysctl.conf file. So, I am actually not able to fix the issue myself. I was trying to do this for 2 weeks long and still no good solution. Most of google search advices to increase max conntack number. I did so. Others tell that this is possibly attack - I've blocked almost the whole internet - still nothing - conntrack stack gets full once per day. So, I hope OpenVZ gurus can advice something here.

Thanks and regards,  
Maksym.

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Subject: Re: ip\_conntrack: CT 0: table full, dropping packet.

Posted by [mavines](#) on Tue, 27 Oct 2009 11:13:02 GMT

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in addition - all connections, which are in /proc/net/ip\_conntrack are to CT 300 IP to port 80. And CT 300 is the exact OpenVZ VPS which previously had issues with orphaned sockets. So, previously it threwed this error:

Orphaned socket dropped (187,374 in CT300)

For now it throws this:

ip\_conntrack: CT 0: table full, dropping packet.

But still all connections which are in /proc/net/ip\_conntrack goes to CT 300 - apache. The main hardware server (CT 0) does not have apache installed at all.

Regards,  
Maksym.

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Subject: Re: ip\_conntrack: CT 0: table full, dropping packet.

Posted by [kir](#) on Tue, 27 Oct 2009 12:54:26 GMT

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Do you have any UBC failures for CT300?

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Subject: Re: ip\_conntrack: CT 0: table full, dropping packet.

Posted by [mavines](#) on Tue, 27 Oct 2009 14:04:35 GMT

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Here are UBC dump for CT300:

vzctl exec 300 cat /proc/user\_beancounters

Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
300:	kmemsize	24701900	42827273	57490800		59160657
0	lockedpages	0	0	1024	1024	0
0	privvmpages	331898	420450	524288	524288	
0	shmpages	925	1581	86016	86016	0
0	dummy	0	0	0	0	0
0	numproc	235	368	960	960	0
0	physpages	74167	94828	0	2147483647	
0	vmguarpages	0	0	135168	2147483647	
0	oomguarpages	74167	94828	104448	2147483647	
0	numtcpsock	103	303	1440	1440	0
0	numflock	4	8	752	824	0
0	numpty	1	2	64	64	0
0	numsignifo	0	12	1024	1024	0
0	tcpsndbuf	855824	1366528	6881280	10813440	
0	tcprcvbuf	844976	1226352	6881280	10813440	
0	othersockbuf	356496	497248	4504320	8388608	
0	dgramrcvbuf	0	70464	1048576	1048576	
0	numothersock	165	194	1440	1440	0
0	dcachesize	0	0	13639680	14499840	0
0	numfile	3786	5048	37248	37248	0
0	dummy	0	0	0	0	0
0	dummy	0	0	0	0	0
0	dummy	0	0	0	0	0
0	numiptent	10	10	512	512	0