Subject: Network down
Posted by Drago on Mon, 15 Mar 2010 13:24:42 GMT
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Hello.
The problem is, that as containers are working, the network to someone or more than one stops. it is not necessary that the container is one and the same everytime. When I run ping to the container from the host node, there is no reply.I can enter the container with "vzctl enter XXX", but the problem stays. The problem is fixed when I execute ""/sbin/ifdown venet0 && /sbin/ifup venet0".
Sometimes this doesn't help, because in 1 min, another container could stop. Sometimes it works normally for day or two without any problems, but after that it could start happening every 5 mins.
The kernel is Linux ufo.myhost.com 2.6.18-164.11.1.el5.028stab068.3 #1 SMP Wed Feb 17 15:22:30 MSK 2010 x86_64 x86_64 x86_64 GNU/Linux

iptables :

mangle and nat are empty and with -P ACCEPT
in filter have only in FORWARD -J ACCEPT rules
INPUT and OUTPUT are empty too

Subject: Re: Network down
Posted by maratrus on Fri, 19 Mar 2010 13:24:21 GMT
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Hello,

if I'm not mistaken you wrote to OpenVZ users mailing list about the same problem. I answered it several days ago so I was hoping that you have to receive an answer. Anyway, here was the answer

Quote:
Hi,

as far as I understand, your network configuration is based on simple
venet0 interface.
Is that true? I suppose that you are faced with arp-problem but could
you please elaborate
your network configuration a little bit so one can understand what the
exact environment is.
It may be important if you are using several route tables.
"ip a l", "ip route list table all", "ip rule list", "arp -n" would be
enough I suppose.

Let me give you a hint so that you will be able to cope with the problem
by yourself.
venet0 is working according the following principle. If a remote machine
is willing to communicate
with a VE it send "arp-who has" request. This type of request reaches a
HN and the HN is sending
"arp reply" to the remote machine (that's why "arp -n" output should
contain information about VE).
Then the remote machine sends network packets to the HN but because of
the additional route
(see "ip route list" output) all packets are going inside VE through the
HN. That's the principle of venet0
interface.

To catch the problem I recommend you using "tcpdump" utility.

Subject: Re: Network down
Posted by Drago on Fri, 19 Mar 2010 15:44:47 GMT
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Hi,

I use venet0 interface and here is output result of "ip a l", "ip route list table all", "ip rule list", "arp -n"

I sniff with tcpdump but this is hard because I don't know when the container will be down.

ip a l

```
2: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
4: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc cbq qlen 100
    link/ether 00:30:48:ca:c5:ac brd ff:ff:ff:ff:ff:ff
    inet XXX.XX.247.2/30 brd XXX.XX.247.3 scope global eth0
    inet6 fe80::230:48ff:feca:c5ac/64 scope link
       valid_lft forever preferred_lft forever
6: eth1: <BROADCAST,MULTICAST> mtu 1500 qdisc noop qlen 1000
    link/ether 00:30:48:ca:c5:ad brd ff:ff:ff:ff:ff:ff
1: sit0: <NOARP> mtu 1480 qdisc noop
    link/sit 0.0.0.0 brd 0.0.0.0
3: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1500 qdisc cbq
    link/void
```

ip route list table all

85.14.28.114 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.12 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.44 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.13 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.10 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.43 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.11 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.42 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.41 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.40 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.9 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.39 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.6 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.23 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.38 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.4 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.5 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.36 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.35 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.34 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.96 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.33 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.16 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.32 dev venet0 scope link src XXX.XX.247.2
XXX.XX.247.0/30 dev eth0 proto kernel scope link src XXX.XX.247.2
169.254.0.0/16 dev eth0 scope link
default via XXX.XX.247.1 dev eth0
broadcast 127.255.255.255 dev lo table 255 proto kernel scope link src 127.0.0.1
local XXX.XX.247.2 dev eth0 table 255 proto kernel scope host src XXX.XX.247.2
broadcast XXX.XX.247.3 dev eth0 table 255 proto kernel scope link src XXX.XX.247.2
broadcast XXX.XX.247.0 dev eth0 table 255 proto kernel scope link src XXX.XX.247.2
broadcast 127.0.0.0 dev lo table 255 proto kernel scope link src 127.0.0.1
local 127.0.0.1 dev lo table 255 proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table 255 proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table 255 proto kernel scope host src 127.0.0.1
fe80::/64 dev eth0 metric 256 expires 21152872sec mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo table unspec proto none metric -1 error -101 hoplimit 255
local ::1 via :: dev lo table 255 proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80:: via :: dev lo table 255 proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295

local fe80::230:48ff:feca:c5ac via :: dev lo table 255 proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
ff00::/8 dev eth0 table 255 metric 256 expires 21152872sec mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo table unspec proto none metric -1 error -101 hoplimit 255

ip rule list

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

arp -n

Address	HWtype	HWaddress	Flags Mask	Iface
XXX.XX.247.1	ether	00:1E:13:E4:79:C0	C	eth0
XXX.XX.247.36	*	*	MP	eth0
XXX.XX.247.6	*	*	MP	eth0
XXX.XX.247.23	*	*	MP	eth0
XXX.XX.247.96	*	*	MP	eth0
XXX.XX.247.5	*	*	MP	eth0
XXX.XX.247.39	*	*	MP	eth0
XXX.XX.247.38	*	*	MP	eth0
XXX.XX.247.4	*	*	MP	eth0
XXX.XX.247.33	*	*	MP	eth0
XXX.XX.247.32	*	*	MP	eth0
85.14.28.114	*	*	MP	eth0
XXX.XX.247.35	*	*	MP	eth0
XXX.XX.247.16	*	*	MP	eth0
XXX.XX.247.34	*	*	MP	eth0
XXX.XX.247.44	*	*	MP	eth0
XXX.XX.247.13	*	*	MP	eth0
XXX.XX.247.12	*	*	MP	eth0
XXX.XX.247.11	*	*	MP	eth0
XXX.XX.247.41	*	*	MP	eth0
XXX.XX.247.10	*	*	MP	eth0
XXX.XX.247.40	*	*	MP	eth0
XXX.XX.247.43	*	*	MP	eth0
XXX.XX.247.9	*	*	MP	eth0
XXX.XX.247.42	*	*	MP	eth0

and here is log with info for hosts down :

Mon Mar 15 13:21:53 2010: Mon Mar 15 13:22:41 2010: Mon Mar 15 13:23:13 2010:

XXX.XX.247.36
Mon Mar 15 13:23:18 2010: XXX.XX.247.36
Mon Mar 15 13:23:28 2010: XXX.XX.247.36
Mon Mar 15 13:26:19 2010: Down Hosts : XXX.XX.247.36
Mon Mar 15 13:26:42 2010: Down Hosts :
XXX.XX.247.5;XXX.XX.247.36;XXX.XX.247.35;XXX.XX.247.39;XXX.X
X.247.11;XXX.XX.247.16;XXX.XX.247.6;XXX.XX.247.4;XXX.XX.247.
38;XXX.XX.247.34;XXX.XX.247.40;XXX.XX.247.32
Mon Mar 15 13:27:49 2010: Down Hosts : XXX.XX.247.36
Mon Mar 15 13:33:02 2010: Down Hosts : XXX.XX.247.36
Mon Mar 15 13:34:02 2010: Down Hosts : XXX.XX.247.36
Mon Mar 15 13:46:04 2010: Down Hosts : XXX.XX.247.34 ; XXX.XX.247.23 ; XXX.XX.247.42
Mon Mar 15 14:08:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ;
XXX.XX.247.6
Mon Mar 15 14:40:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ;
XXX.XX.247.6
Mon Mar 15 14:54:03 2010: Down Hosts : XXX.XX.247.36
Mon Mar 15 15:01:02 2010: Down Hosts : XXX.XX.247.36
Mon Mar 15 15:32:02 2010: Down Hosts : XXX.XX.247.36
Mon Mar 15 16:06:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ;
XXX.XX.247.6
Mon Mar 15 22:38:02 2010: Down Hosts : XXX.XX.247.35
Tue Mar 16 00:22:06 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:23:18 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:24:23 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:25:36 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:26:12 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:27:24 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:28:18 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:29:17 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:30:22 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:31:11 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:32:16 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 00:33:09 2010: Down Hosts : XXX.XX.247.11
Tue Mar 16 01:38:02 2010: Down Hosts : XXX.XX.247.16
Tue Mar 16 04:54:02 2010: Down Hosts : XXX.XX.247.6
Tue Mar 16 04:55:08 2010: Down Hosts : XXX.XX.247.6
Tue Mar 16 04:56:04 2010: Down Hosts : XXX.XX.247.6
Wed Mar 17 15:31:02 2010: Down Hosts : XXX.XX.247.36
Wed Mar 17 15:32:02 2010: Down Hosts : XXX.XX.247.36
Wed Mar 17 17:26:02 2010: Down Hosts : XXX.XX.247.38
Wed Mar 17 22:03:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ;
XXX.XX.247.6
Thu Mar 18 01:27:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:28:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:29:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:30:04 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:31:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96

Thu Mar 18 01:32:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:33:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:34:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:35:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:39:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:40:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:41:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:42:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:44:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 01:45:03 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.96
Thu Mar 18 03:01:03 2010: Down Hosts : XXX.XX.247.34 ; XXX.XX.247.23
Thu Mar 18 03:20:07 2010: Down Hosts : XXX.XX.247.35 ; XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6 ; XXX.XX.247.96
Thu Mar 18 06:01:03 2010: Down Hosts : XXX.XX.247.34 ; XXX.XX.247.23
Thu Mar 18 08:01:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6
Thu Mar 18 08:32:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6
Thu Mar 18 10:58:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6
Thu Mar 18 10:59:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6
Thu Mar 18 11:00:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6
Thu Mar 18 11:01:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6
Thu Mar 18 11:02:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6
Thu Mar 18 11:03:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6
Thu Mar 18 11:04:05 2010: Down Hosts : XXX.XX.247.39 ; XXX.XX.247.11 ; XXX.XX.247.16 ; XXX.XX.247.6

Thanks.

Subject: Re: Network down
Posted by maratrus on Fri, 19 Mar 2010 16:39:32 GMT
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Hi,

Quote:
I sniff with tcpdump but this is hard because I don't know when the container will be down.

at the moment everything is fine and I can't see anything strange in provided output. So you'd

better catch a moment when a particular VE is down and then:

- compare the provided output with output that will be at that moment (or just post it here)
- run tcpdump on eth0 and venet0 interfaces on the HN as well as on the venet0 interface inside the VE
- check sysctls http://wiki.openvz.org/Quick_installation#sysctl
- check routes/iptables inside the VE

P.S. BTW, who writes "Down Hosts"? What kind of program puts that messages in logs and how it indicates that hosts are really down?

Subject: Re: Network down
Posted by Drago on Fri, 19 Mar 2010 17:15:53 GMT
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cat /etc/sysctl.conf

net.ipv4.ip_forward = 1
net.ipv6.conf.default.forwarding = 1
net.ipv6.conf.all.forwarding = 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
net.ipv4.tcp_syncookies = 1
net.ipv4.tcp_max_syn_backlog = 2048
net.ipv4.tcp_synack_retries = 2
net.ipv4.tcp_abort_on_overflow = 1
net.ipv4.icmp_echo_ignore_broadcasts=1
net.ipv4.conf.default.forwarding=1
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.conf.all.send_redirects = 0

net.ipv4.conf.all.arp_ignore=1
net.ipv4.conf.all.arp_announce=2

and script who write host is down

simple perl script

```
#!/usr/bin/perl
#

use vars qw/ $p, @p, @inactive, @skip, @ping, %p /;
```

```
use Net::Ping;


$p =~ s/\s+/ /;
$p =~ s/\s+$//g;
@p = split "\n", $p;
for ( @p ) {
    $_ =~ s/\s\C+$//g;
}

$p = `/usr/sbin/vzlist -H -o ip -S`;
$p =~ s/\s+/ /;
$p =~ s/\s+$//g;
@skip = split "\n", $p;
for ( @skip ) {
    $_ =~ s/\s\C+$//g;
    $p{$_} = 1;
}

for ( @p ) {
    if ($p{$_}) {
    } else {
        push @ping, $_;
    }
}

$p = Net::Ping->new("icmp");
foreach $host (@ping)
{
    push @inactive, $host unless $p->ping($host, 1);
}
$p->close();

if ( @inactive ) {
    open (FILE,'>>/var/log/ping_hosts.log');
    print FILE localtime().': Down Hosts : '.(join ' ; ', @inactive)."\n";
    close FILE;
    $p = `/sbin/ifdown venet0`;
    sleep(2);
    $p = `/sbin/ifup venet0`;
}
```

when scripts write down hosts are realy down /i cant ping them from HN with ping xxx.xx.xxx.x/.

and inside VE no any iptable rules. And routes are clean.