Subject: CentOS 6: default inbound traffic limited for CT's
Posted by mojah on Mon, 20 Feb 2012 20:31:21 GMT

Hi,

I'm running OpenVZ on a CentOS 6 x64 machine with a stable kernel
(2.6.32-042stab049.6) and have even tried the issue below on the
test-branch (2.6.32-042stab052.2).
The issue I'm experiencing is also reported by Fredericep on the forum
but never got any follow-up:
 http://forum.openvz.org/index.php?t=tree&goto=44238& &srch=inbound#msg_44
238

It's the exact same problem: my hardware node runs perfectly fine, it
has both full in- and outgoing networking speed. I can consistently
(3hours+ as tested) download files at my full line speed.
Whenever I try to same in a container, I can get a quick burst of
network traffic for a few seconds (10MB/s+) and then fall back to
10-200Kb/s, it varies.

My first troubleshooting went to incoming traffic shaping for the
eth0/venet0 interface, but that's not the case:
  # tc -s qdisc ls dev eth0
  qdisc mq 0: root
   Sent 65350399 bytes 363366 pkt (dropped 0, overlimits 0 requeues 0)
   rate 0bit 0pps backlog 0b 0p requeues 0

  # tc qdisc del dev eth0 root
  RTNETLINK answers: No such file or directory

But this is a default install and it doesn't have any traffic shaping
rules active. Neither does it have iptables active. It's all still
running the default OpenVZ stack.

Second idea was a possible hit of TCPSNDBUF or TCPRCVBUF as the defaults
(1720320) are rather low. But even changing it to something idiotic like
9223372036854775807 didn't make a difference. The /proc/user_beancounter
also didn't report any failed packets.

When tcpdumping the stream, I don't see anything abnormal except that
it's just slow traffic. Nothing out of the ordinary at first glance.

I'm looking for any advice on how to troubleshoot this, as I believe
this may very well be a CentOS 6 kernel bug - but to prove that, I would
of course need to dive deeper which is where my train of thought kind of
ends.

I look forward to any reply/idea this list may give me.

Mattias Geniar

Subject: Re: CentOS 6: default inbound traffic limited for CT's
Posted by Kirill Korotaev on Tue, 21 Feb 2012 05:18:32 GMT

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Mattias,

1. The same doesn't happen on the very same host system (VE0)? Inside container only?
2. Are you using venet or bridged networking?

Thanks,
Kirill

On Feb 21, 2012, at 00:31 , Mattias Geniar wrote:

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> Mattias Geniar
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Subject: RE: CentOS 6: default inbound traffic limited for CT's
Posted by mojah on Tue, 21 Feb 2012 05:32:20 GMT
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> 1. The same doesn't happen on the very same host system (VE0)? Inside
> container only?

Indeed, host VE0 is unaffected, it has full network speed, only happens
inside containers. It happens on each new container I create, with basic
commands such as:

 # vzctl create 5 --ostemplate centos-6-x86_64
 # vzctl set 5 --ipadd x.x.x.x --nameserver y.y.y.y --hostname
valid-fqdn-hostname --onboot no --save
 # vzctl start 5

> 2. Are you using venet or bridged networking?

Venet, which is the default if I'm not mistaken.

Regards,
Mattias