Subject: Awfully slow network performance w/ r8169 and openvz
Posted by felicitus on Fri, 19 Nov 2010 07:17:05 GMT
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Hi,

I'm currently setting up my first openvz server. It seems that my network speed is limited with the openvz kernel and r8169 (RTL8111/8168B PCI Express Gigabit Ethernet controller). I tried both 2.6.27-levitan.1 and 2.6.32-dzhanibekov.1.

I did not set up any containers so far; all things mentioned in here refer to VE0!

If I boot my server in a rescue system (stock debian system with stock kernel), I receive maximum speed (more than 10mbyte/s for a remote download). However with openvz, my performace is stuck at 400-600kbyte/s, and drops down to below 100kbyte/s for a download which takes a bit longer (let's say 100MB).

I have:
* Gentoo (current version), vzctl 3.0.23-r2
* No messages in the kernel log with errors or network issues
* No iptables set
* No special configuration like bandwidth limiting or such

Negotiation is OK:
arkus conf # mii-tool
eth0: no autonegotiation, 100baseTx-HD, link ok

No packet errors:
eth0 Link encap:Ethernet HWaddr 6c:62:6d:76:2f:2d
inet addr:hidden Bcast:hidden Mask:255.255.255.192
inet6 addr: hidden Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:111925 errors:0 dropped:0 overruns:0 frame:0
TX packets:90386 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:158226334 (150.8 MiB) TX bytes:6913452 (6.5 MiB)
Interrupt:249 Base address:0xc000

/proc/user_beancounters:

arkus conf # cat /proc/user_beancounters
Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
0:	kmemsize	7284234	13681307	9223372036854775807	9223372036854775807	0
	lockedpages	0	3075	9223372036854775807	9223372036854775807	0

```
        privvmpages          21592          92826  9223372036854775807
9223372036854775807                0
        shmpages              1310           1326  9223372036854775807
9223372036854775807                0
        dummy                    0              0  9223372036854775807  9223372036854775807
                0
        numproc                175            246  9223372036854775807
9223372036854775807                0
        physpages             4290          61920  9223372036854775807
9223372036854775807                0
        vmguarpages              0              0  9223372036854775807
9223372036854775807                0
        oomguarpages          4290          61920  9223372036854775807
9223372036854775807                0
        numtcpsock              16             19  9223372036854775807
9223372036854775807                0
        numflock                 2             18  9223372036854775807  9223372036854775807
                0
        numpty                   2              3  9223372036854775807  9223372036854775807
                0
        numsiginfo               2             56  9223372036854775807
9223372036854775807                0
        tcpsndbuf           628864         628864  9223372036854775807
9223372036854775807                0
        tcprcvbuf           262144         361368  9223372036854775807
9223372036854775807                0
        othersockbuf         30056         117152  9223372036854775807
9223372036854775807                0
        dgramrcvbuf              0           5648  9223372036854775807
9223372036854775807                0
        numothersock            57             78  9223372036854775807
9223372036854775807                0
        dcachesize          771540         872256  9223372036854775807
9223372036854775807                0
        numfile              3003           3998  9223372036854775807
9223372036854775807                0
        dummy                    0              0  9223372036854775807  9223372036854775807
                0
        dummy                    0              0  9223372036854775807  9223372036854775807
                0
        dummy                    0              0  9223372036854775807  9223372036854775807
                0
        numiptent                0              0  9223372036854775807  9223372036854775807
                0
```

Output of tc qdisc:

arkus ~ # tc qdisc
qdisc pfifo_fast 0: dev eth0 root bands 3 priomap 1 2 2 2 1 2 0 0 1 1 1 1 1 1 1 1

I'm not too sure if the issue is maybe related to bean counters; but as the fail count is 0, I assume everything is correct here?

arkus conf # uname -a
Linux arkus 2.6.27-openvz-levitan.1 #1 SMP Fri Nov 19 07:12:32 CET 2010 x86_64 Intel(R) Core(TM) i7 CPU 930 @ 2.80GHz GenuineIntel GNU/Linux

arkus ~ # tc class show dev eth0
<no output returned>

Anything I could check else?

Thanks
Felicitus