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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

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Subject: Re: Awfully slow network performance w/ r8169 and openvz  
Posted by [mmarkk](#) on Wed, 10 Aug 2011 19:41:41 GMT  
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How did you resolve this problem? I have exatly the same one, but in Centos 6 / x86\_64 / Core i7.

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Subject: Re: Awfully slow network performance w/ r8169 and openvz  
Posted by [mmarkk](#) on Wed, 10 Aug 2011 19:54:56 GMT  
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ethtool -s eth0 speed 100 duplex full autoneg off

will solve your (and my) problem

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Subject: Re: Awfully slow network performance w/ r8169 and openvz  
Posted by [seanfulton](#) on Tue, 30 Aug 2011 15:36:03 GMT  
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I have a lot of machines with the 8168B card and have not had good luck with the r8169 driver.

You can go to RealTek's site and download the r8168 driver and build it as a module. Works great, and much better than the r8169 driver!

sean

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