Subject: *SOLVED* VE Network hangs
Posted by mdekkers on Wed, 06 Jun 2007 11:01:30 GMT
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Hi All,

Debian Etch, running etch's standard openvz install. create a bunch of VE's, all work fine. Standard iptables, NAT, etc - network access works.

apt-get install from within a VE, the download will hang. apt needs to be restarted several times to get the whole file down. No such problems from the HN. I am pretty new to OpenVZ, and am mainly used to Xen and VMWare.

running wget on the commandline doesnt show this issue.
Any pointers?

Subject: Re: VE Network hangs
Posted by Vasily Tarasov on Wed, 06 Jun 2007 11:27:12 GMT
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Hmmm... kernel version please. And can you please attach here the strace of apt-get here?

Thank you,
Vasily.

Subject: Re: VE Network hangs
Posted by mdekkers on Wed, 06 Jun 2007 12:08:34 GMT
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uname -a Linux <somehost> 2.6.18-openvz-12-1-686 #1 SMP Tue May 1 04:59:12 CEST 2007 i686 GNU/Linux

last bit of strace for apt-get install tetex-base:

read(13, "102 Status\nURI: http://http.us.d"..., 64000) = 127
select(14, [13], [], NULL, {0, 472000}) = 1 (in [13], left {0, 444000})
read(13, "200 URI Start\nURI: http://http.u"..., 64000) = 159
Get:1 http://http.us.debian.org etch/main tex-common 1.0.1 [708kB]
) = 81
stat64("/var/cache/apt/archives/partial/tex-common_1.0.1_all.deb", {st_mode=S_IFREG|0644, st_size=1151, ...}) = 0
gettimeofday({1181131516, 123310}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0

```
0% [1 tex-common 1151/708kB 0%]) = 45ommon 1"..., 45
select(14, [13], [], NULL, {0, 500000}) = 0 (Timeout)
stat64("/var/cache/apt/archives/partial/tex-common_1.0.1_all.deb", {st_mode=S_IFREG|0644,
st_size=506503, ...}) = 0
gettimeofday({1181131516, 625780}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
2% [1 tex-common 506503/708kB 71%]) = 67   "..., 67
select(14, [13], [], NULL, {0, 500000}) = 1 (in [13], left {0, 332000})
read(13, "201 URI Done\nURI: http://http.us"..., 64000) = 454
rename("/var/cache/apt/archives/partial/tex-common_1.0.1_all.deb",
"/var/cache/apt/archives/tex-common_1.0.1_all.deb") = 0
gettimeofday({1181131516, 796795}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
3% [Waiting for headers]) = 60             "..., 60
select(14, [13], [], NULL, {0, 500000}) = 1 (in [13], left {0, 500000})
read(13, "200 URI Start\nURI: http://http.u"..., 64000) = 168
Get:2 http://http.us.debian.org etch/main tetex-base 3.0.dfsg.3-5 [22.4MB]
) = 101
stat64("/var/cache/apt/archives/partial/tetex-base_3.0.dfsg.3-5_all.deb",
{st_mode=S_IFREG|0644, st_size=1221, ...}) = 0
gettimeofday({1181131516, 798379}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
3% [2 tetex-base 1221/22.4MB 0%]) = 583% [2 "..., 58
select(14, [13], [], NULL, {0, 500000}) = 0 (Timeout)
stat64("/var/cache/apt/archives/partial/tetex-base_3.0.dfsg.3-5_all.deb",
{st_mode=S_IFREG|0644, st_size=593453, ...}) = 0
gettimeofday({1181131517, 301690}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
5% [2 tetex-base 593453/22.4MB 2%]) = 68   "..., 68
select(14, [13], [], NULL, {0, 500000}) = 0 (Timeout)
stat64("/var/cache/apt/archives/partial/tetex-base_3.0.dfsg.3-5_all.deb",
{st_mode=S_IFREG|0644, st_size=1184237, ...}) = 0
gettimeofday({1181131517, 804380}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
8% [2 tetex-base 1184237/22.4MB 5%]) = 71  "..., 71
select(14, [13], [], NULL, {0, 500000}) = 0 (Timeout)
stat64("/var/cache/apt/archives/partial/tetex-base_3.0.dfsg.3-5_all.deb",
{st_mode=S_IFREG|0644, st_size=1773573, ...}) = 0
gettimeofday({1181131518, 306289}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
10% [2 tetex-base 1773573/22.4MB 7%]) = 73 "..., 73
select(14, [13], [], NULL, {0, 500000}) = 0 (Timeout)
```

stat64("/var/cache/apt/archives/partial/tetex-base_3.0.dfsg.3-5_all.deb",
{st_mode=S_IFREG|0644, st_size=1828597, ...}) = 0
gettimeofday({1181131518, 806430}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
10% [2 tetex-base 1828597/22.4MB 8%]) = 37M"..., 37
select(14, [13], [], NULL, {0, 500000}) = 0 (Timeout)
stat64("/var/cache/apt/archives/partial/tetex-base_3.0.dfsg.3-5_all.deb",
{st_mode=S_IFREG|0644, st_size=1828597, ...}) = 0
gettimeofday({1181131519, 306365}, NULL) = 0
rt_sigprocmask(SIG_BLOCK, [WINCH], [], 8) = 0
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
10% [2 tetex-base 1828597/22.4MB 8%]) = 37M"..., 37
select(14, [13], [], NULL, {0, 500000}) = 0 (Timeout)

It then goes on for a while being stuck at 8% - timeouts. this doesnt happen on the HN. Furthermore, this only happens with larger files, lots of smaller ones work fine.

Thanks for looking into this. Appreciated.

Subject: Re: VE Network hangs
Posted by Vasily Tarasov on Wed, 06 Jun 2007 13:04:33 GMT
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Thanks,

two more questions, please:

1) is there something in /proc/user_beancounters _after_ stalled apt-get

2) the version of your kernel is 2.6.18-openvz-12-1-686... I guess it is some Debian versioning. Can you give me a link to some Debian web-page, where I can find out how to translate Debian version to OpenVZ one?

Thanks,
Vasily.

Subject: Re: VE Network hangs
Posted by curx on Wed, 06 Jun 2007 13:13:23 GMT
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Hi,

@Martijn: I think some network related bean_counter has been exceeded, like tcpsndbuf, tcprcvbuf ... etc.

@Vass:, this OpenVZ kernel version is built with OpenVZ Patch 028stab018.1

Subject: Re: VE Network hangs
Posted by Vasily Tarasov on Wed, 06 Jun 2007 13:21:42 GMT
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Thorsten,

can you tell me however where can I get this information? Probably some time you'll be not at forum, and then nobody will help me BTW, why the versioning is so strange? I mean no mention about upstream version (018 in this case).

Vielen Dank,
Vasily.

Subject: Re: VE Network hangs
Posted by curx on Wed, 06 Jun 2007 13:40:25 GMT
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Hi Vasily,

> can you tell me however where can I get this information?
Yes, here:

file: linux-image-2.6.18-openvz-12-1etch1-686_028.18.1etch2_i386.d eb :

linux-image-2.6.18 -> linux-source-2.6.18 (debian)
-openvz-12-1etch1-686 -> append-to-version
028.18.1etch2 -> revision string, with OpenVZ patch 028(stab0).18.1

See debian packags info:
http://packages.debian.org/cgi-bin/search_packages.pl?search
on=names&version=all&exact=1&keywords=kernel-pat ch-openvz

> Probably some time you'll be not at forum, and then nobody will help me

I'm really often here , so make a knock ...

> BTW, why the versioning is so strange? I mean no mention about upstream version (018 in this case).

Please ask Ola about this, here put the patch sting to revison only.

Subject: Re: VE Network hangs
Posted by mdekkers on Wed, 06 Jun 2007 13:47:32 GMT
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Hi vasily,

thanks for your help:

root@<hostname>:/proc# cat user_beancounters
Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
666:	kmemsize	696833	781828	2752512	2936012	0
	lockedpages	0	0	32	32	0
	privvmpages	16728	19097	49152	53575	0
	shmpages	0	0	8192	8192	0
	dummy	0	0	0	0	0
	numproc	17	18	65	65	0
	physpages	1663	3469	0	2147483647	0
	vmguarpages	0	0	6144	2147483647	0
	oomguarpages	1663	3469	6144	2147483647	0
	numtcpsock	3	4	80	80	0
	numflock	1	6	100	110	0
	numpty	2	2	16	16	0
	numsiginfo	0	3	256	256	0
	tcpsndbuf	0	4464	319488	524288	0
	tcprcvbuf	0	343728	319488	524288	318
	othersockbuf	4464	6696	132096	336896	0
	dgramrcvbuf	0	1208	132096	132096	0
	numothersock	2	5	80	80	0
	dcachesize	0	0	1048576	1097728	0
	numfile	336	350	2048	2048	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	numiptent	10	10	128	128	0

root@corehost01:/proc#

Thanks
All just numbers to me...

Subject: Re: VE Network hangs
Posted by Vasily Tarasov on Wed, 06 Jun 2007 13:58:57 GMT
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you should increase tcprcvbuf paramater for your VE:
vzctl set 666 --tcprcvbuf 629488:1024288 --save
And then retry your apt-get operations...

BTW, read more about it. It's very important when using OpenVZ:
http://wiki.openvz.org/Resource_shortage

Vasily.

Subject: Re: VE Network hangs
Posted by mdekkers on Wed, 06 Jun 2007 15:36:14 GMT
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Hey Vasily,

Thanks again for your great help! This seems to have done the trick, brilliant!