Subject: OOM killed process, altough there is enough memory
Posted by Roman Haefeli on Wed, 10 Oct 2012 16:25:48 GMT
View Forum Message <> Reply to Message

Hi all

We're having issues with processes in a container being killed by OOM,
although the hostnode does not have even half of its memory used.
How can it be that there is a failcnt for oomguarpages, although the
barrier wasn't even reached?

This is on Debian Squeeze with the OpenVZ Kernel shipped by Debian.

uname -r
2.6.32-5-openvz-amd64

from dmesg:

 [498530.406463] OOM killed process java (pid=4143, ve=2018) exited, free=11882227 gen=17.

from /proc/user_beancounters

uid resource	held	maxheld	barrier	limit	failcnt
2018: kmemsize	12790390	34388183	34379782	38379782	1255
lockedpages	0	239	1024	1200	6
privvmpages	416902	1559453	2097152	9223372036854775807	0
shmpages	7929	8954	21504	21504	0
dummy	0	0	0	0	0
numproc	184	372	1000	1200	0
physpages	71964	529494	0	9223372036854775807	0
vmguarpages	0	0	2097152	9223372036854775807	0
oomguarpages	71964	529494	2097152	9223372036854775807	1
numtcpsock	43	117	360	360	0
numflock	7	29	188	206	0
numpty	0	1	16	16	0
numsiginfo	0	7	256	256	0
tcpsndbuf	213904	955224	1720320	2703360	0
tcprcvbuf	212992	282952	1720320	2703360	0

	othersockbuf	18496	43600	1126080	2097152	
0						
	dgramrcvbuf	0	4360	262144	262144	0
	numothersock	214	253	360	360	0
	dcachesize	611724	1746754	3409920	3624960	
0						
	numfile	3745	7966	9312	9312	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

Roman

Subject: Re: OOM killed process, altough there is enough memory
Posted by Corin Langosch on Wed, 10 Oct 2012 17:16:09 GMT

View Forum Message <> Reply to Message

On 10.10.2012 at 18:25 +0200, Roman Haefeli <reduzent@gmail.com> wrote:
> We're having issues with processes in a container being killed by OOM,
> although the hostnode does not have even half of its memory used.
> How can it be that there is a failcnt for oomguarpages, although the
> barrier wasn't even reached?
>
> This is on Debian Squeeze with the OpenVZ Kernel shipped by Debian.

I can only highly recommend against using the debian openvz kernels. I
always had stability problems with them and a few months ago I
discovered a major bug (
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=655385), causing the
whole system to get instable/ freezed.

For a few months now I'm using the official rhel6 openvz kernels and
convert them into debian packages as described here:
 http://wiki.openvz.org/Install_kernel_from_RPM_on_Debian_6.0 Since then
I never had any problems again so far :)

Corin

Subject: Re: OOM killed process, altough there is enough memory
Posted by Roman Haefeli on Wed, 10 Oct 2012 20:07:22 GMT

View Forum Message <> Reply to Message

On Mit, 2012-10-10 at 19:16 +0200, Corin Langosch wrote:

> On 10.10.2012 at 18:25 +0200, Roman Haefeli
> <reduzent@gmail.com> wrote:
> > We're having issues with processes in a container being killed by OOM,
> > although the hostnode does not have even half of its memory used.
> > How can it be that there is a failcnt for oomguarpages, although the
> > barrier wasn't even reached?
> >
> > This is on Debian Squeeze with the OpenVZ Kernel shipped by Debian.
>
> I can only highly recommend against using the debian openvz kernels. I
> always had stability problems with them and a few months ago I
> discovered a major bug
> (http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=655385), causing
> the whole system to get instable/ freezed.
>
> For a few months now I'm using the official rhel6 openvz kernels and
> convert them into debian packages as described here:
> http://wiki.openvz.org/Install_kernel_from_RPM_on_Debian_6.0 Since
> then I never had any problems again so far :)

Thanks for your comments. It's not the first time I experienced oddities
with the Debian OpenVZ kernel. I'll definitely check out the RHEL6
kernel.

Also, knowing that what I reported is _not_ expected behavior is
valuable for me to know. I started to think that I might have
misconfigured the CTs due to a lack of understanding the mem
limits/guarantees.

Roman