Subject: *SOLVED* Strange memory failcnt problem
Posted by gral on Sat, 30 Sep 2006 19:43:19 GMT
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Hi ev1

Im having problem in one of my vps, sometimes received apache errors like 500 or forbidden, and the WHM and cPanel are innacesible at the both time...

doing the cat /proc/user_beancounters i received...

```
 uid  resource                     held              maxheld              barrier                limit              failcnt
      112: kmemsize                6748091          49176315  1152921504606846975
1152921504606846975            3895057
           lockedpages               0                 8  1152921504606846975
1152921504606846975                  0
           privvmpages              76896            1169982  1152921504606846975
1152921504606846975                  0
           shmpages                 19663             950363  1152921504606846975
1152921504606846975                  0
           dummy                     0                 0                 0                 0                 0
           numproc                  84                787  1152921504606846975
1152921504606846975
```

(Sorry for big scroll)...

so Why if the limit of the kmemsize is =1152921504606846975 the maxheld is 49176315 and the memory fails 3895057

What's should i do? and what does it mean exactly?

Regards!!

Gral

[ADMIN EDIT: added CODE tag pair to fix UBC formatting]

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Sat, 30 Sep 2006 21:34:45 GMT
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Quote:Why if the limit of the kmemsize is =1152921504606846975 the maxheld is 49176315 and the memory fails 3895057

I see the only reason why it happens. Suppose at a moment your held=maxheld=49176315. Then some process tries to use 1152921504557670661.

49176315 + 1152921504557670661 = 1152921504606846976 > 1152921504606846975

Thus allocation fails and maxheld=49176315.

Subject: Re: Strange memory failcnt problem
Posted by gral on Sun, 01 Oct 2006 00:05:17 GMT
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So there is a process trying to take a lot of memory like 1152921504557670661,

how can i fix it ? or detect the process ?

Thanks again guys!!

Gral

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Wed, 04 Oct 2006 06:27:01 GMT
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This is really strange process that wants all this amount of kernel memory

Well, I sugest to do everything step by step to detect this "bad" process:
1) Create new clear VPS. Start it. Check user_beancounters, if no failconters go on.
2) Install first application you need, run it, check user_beancounters again.
3) etc...

Doing this way you will be able to detect who's responsible for failcounters and find out limit/barrier parameters that will fit you.

HTH,
vass.

Subject: Re: Strange memory failcnt problem
Posted by HaroldB on Wed, 04 Oct 2006 07:47:03 GMT
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I too have seen several cases where the kmemsize metric has failcnts but the maxheld is less than the barrier (and less than the limit). I am not sure how we can explore the reason for this? Is there some debug option we can enable perhaps?

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Wed, 04 Oct 2006 08:01:36 GMT
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Harold, it's normal when kmemsize (and others) metric has failcnts but the maxheld is less than the barrier (and less than the limit).

Look at my answer:
http://forum.openvz.org/index.php?t=tree&th=1261&mid =7024&&rev=&reveal=
We just need to understand who tries to get all this memory. I suppose it can be easily done by hand.

Subject: Re: Strange memory failcnt problem
Posted by HaroldB on Wed, 04 Oct 2006 08:03:25 GMT
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Hi, yes I read your post but its very unlikely anything is trying to use this amount of memory: 1152921504557670661. Especially in a server where you know all of the applications. I guess its possible and its the best explanation right now though.

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Wed, 04 Oct 2006 08:08:37 GMT
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I agree, it's really strange...

Gral, Harold is this problem reproducable on your nodes?
If "yes", what do you do to reproduce the problem?
What kernel do you use?
Can you provide an access to the node?

Thanks!

Subject: Re: Strange memory failcnt problem
Posted by HaroldB on Wed, 04 Oct 2006 08:12:05 GMT
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I can't reproduce it right now but I'll keep my eye out. Its just something I have noticed, never posed a big problem because I keep the kmemsize at a big number too, but not nearly 1152921504557670661.

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Wed, 04 Oct 2006 08:24:18 GMT
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Well, what's the kernel, how can I reproduce it locally, can you give access to the node?

Thanks!

Subject: Re: Strange memory failcnt problem
Posted by HaroldB on Wed, 04 Oct 2006 08:35:21 GMT
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I can't reproduce it. I meant to say, sometimes I check the beans of a VE, and see that kmemsize has failcnts, maxheld<barrier, and the barrier hasn't been modified at all. I'll try to catch one and investigate a method to reproduce..

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Wed, 04 Oct 2006 08:42:57 GMT
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Thanks!
After that, please, fill the bug!

Goof luck,
vass.

Subject: Re: Strange memory failcnt problem
Posted by gral on Thu, 05 Oct 2006 14:52:57 GMT
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Hi in my case:

This is really strange process that wants all this amount of kernel memory

There was a domain with joomla hacked, and trougt for it they are attacking another server...

Everything bad...

Well... but is a explanation

Cheers!!!

pd: sorry for my english!

gRal

Subject: Re: Strange memory failcnt problem
Posted by disaster on Fri, 06 Oct 2006 07:56:11 GMT
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Hi!

I've the same problem since => patch 018.1

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Fri, 06 Oct 2006 10:48:28 GMT
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Seems that there is a problem in kmemsize, since 3 persons have complained on it. Please, fill the bug with as much possible information about environment.

Thanks!

P.S. Also you can try patch
http://git.openvz.org/?p=linux-2.6-openvz;a=commit;h=4165f1fa371b60cb3a225910faebde95650a1f65
I doubt, it can help, but however...

Subject: Re: Strange memory failcnt problem
Posted by disaster on Fri, 06 Oct 2006 10:58:27 GMT
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I've already used this patch...

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Fri, 06 Oct 2006 10:59:13 GMT
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Good, so this is other bug, will you fill it, please?

Subject: Re: Strange memory failcnt problem
Posted by disaster on Fri, 06 Oct 2006 11:03:28 GMT
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Sorry but i don't know what i should post... i can write down there must be a bug with kmemsize... but no more info...

Subject: Re: Strange memory failcnt problem
Posted by Vasily Tarasov on Fri, 06 Oct 2006 11:07:24 GMT
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* Kernel version and architecture (output of uname -a command on the kernel that caused a problem)
* In case you compiled your kernel yourself — your .config file
* In case you have used some additional kernel patches — a link to those patches.
* Description of how to reproduce, if possible

Subject: Re: Strange memory failcnt problem
Posted by disaster on Fri, 06 Oct 2006 11:15:22 GMT
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Look here: http://bugzilla.openvz.org/show_bug.cgi?id=288

Subject: Re: Strange memory failcnt problem
Posted by xemul on Mon, 09 Oct 2006 09:48:24 GMT
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From gral's first comment I see it happens on x86_64, right?
To HaroldB and disaster - what arch do you use?

Subject: Re: Strange memory failcnt problem
Posted by disaster on Mon, 09 Oct 2006 09:51:17 GMT
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use x86_64

Subject: Re: Strange memory failcnt problem
Posted by HaroldB on Mon, 09 Oct 2006 13:29:05 GMT
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using 32 bit.

H

Subject: Re: Strange memory failcnt problem
Posted by gral on Mon, 09 Oct 2006 14:22:19 GMT
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hey xemul, yeap my Hardware node is x86_64, but the VE templates are i386, but i say in another post in this thread, one of the VirtualHost was a joomla hacked and it generate this error.

Hope it help!

Bye!.

gRal

Subject: Re: Strange memory failcnt problem
Posted by xemul on Tue, 10 Oct 2006 08:41:52 GMT
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HaroldB: I thought I used x86_64... OK, If your machine is 32bit then could you show the config you used.

Subject: Re: Strange memory failcnt problem
Posted by disaster on Tue, 10 Oct 2006 08:44:13 GMT
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for me it also this:
Hardware node is x86_64, but the VE templates are i386,

Subject: *SOLVED* Re: Strange memory failcnt problem
Posted by xemul on Fri, 13 Oct 2006 07:03:44 GMT
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Looks like problem is resolved.
http://bugzilla.openvz.org/show_bug.cgi?id=288