Subject: Cannot allocate memory BUT failcnt is 0 for all resources
Posted by benlm on Tue, 23 Oct 2007 14:41:20 GMT
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One of my MySQL VPS's just went nuts, and started spewing 'Cannot allocate memory' errors. Checking /proc/user_beancounters show that there are no limits being reached.

After playing around with resource limits regardless, I still couldn't get it to work. I tried creating a new VPS and just copying over the old filesystem, but I got the same memory errors. Then, I created a new VPS, installed MySQL and copied only the MySQL data dirs. This worked fine, and it's now up and running (with the same resources as the VPS that had all the memory errors).

I've attached some output. Any help would be greatly appreciated - I really need to find out what caused this.

Thanks!

File Attachments
1) 101-memory-details.txt, downloaded 630 times

Subject: Re: Cannot allocate memory BUT failcnt is 0 for all resources
Posted by khorenko on Tue, 23 Oct 2007 15:04:51 GMT
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Well, really a strange situation. Did you check the ulimits inside a problem VE?
Do you still have that VE? Can we somehow get a copy of it to dig the problem?

Thank you,
Konstantin.

Subject: Re: Cannot allocate memory BUT failcnt is 0 for all resources
Posted by benlm on Tue, 23 Oct 2007 15:30:24 GMT
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I've still got it around, and it's still showing symptoms.

```
[root@mysql4 /]# ulimit
unlimited
[root@mysql4 /]# ulimit -a
core file size          (blocks, -c) 0
data seg size           (kbytes, -d) unlimited
file size               (blocks, -f) unlimited
pending signals                 (-i) 1024
max locked memory       (kbytes, -l) unlimited
max memory size         (kbytes, -m) unlimited
```

```
open files                      (-n) 1024
pipe size            (512 bytes, -p) 8
POSIX message queues     (bytes, -q) 819200
stack size              (kbytes, -s) 10240
cpu time             (seconds, -t) unlimited
max user processes              (-u) 71680
virtual memory          (kbytes, -v) unlimited
file locks                      (-x) unlimited
[root@mysql4 /]#
```

Being the root user, any arbitrary limits set inside the VPS shouldn't affect me anyway right?

I've attached the relevant part of the config, as well as an updated beancounters paste (I've changed the config a bit since my first post).

If you can't think of anything else for me to check I'll remove any sensitive data from it and package it up for you to have a look at. I'd give you SSH access, but I can't get it on the network due to the memory issues.

Thanks.

## File Attachments

1) 101-memory-details.txt, downloaded 476 times

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Subject: Re: Cannot allocate memory BUT failcnt is 0 for all resources
Posted by khorenko on Wed, 24 Oct 2007 08:59:00 GMT
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Well, looks like i've no more ideas what to check...
* might be the content of the /proc/meminfo. Does it differ from the meminfo in working VE?
* might be strace of the small program which simply does alloc().

But i suppose the copy of the VE will be the simplest way.
BTW, please, tell me which kernel do you use and the host OS. (i think the latter doesn't matter but anyway).

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