
Subject: Strange Memory Problem

Posted by [ziceva](#) on Tue, 19 Jan 2010 11:55:28 GMT

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Hy,

I have a rather strange problem with a OpenVPS server ...

The HN is a Core 2 Duo E4500 @2.20 GHz with 3Gb of RAM ...

I've created a VPS with 1Gb of RAM and installed cPanel inside it ... and everything went smooth

... I even run a unixbench, just to see how would it perform ...

I've put a site on this server (ok, it is a rather heavy application... but the 1Gb i reserved for it should be enough) ... and that also worked fine for a few hours ... than the problem:

Now my apache server complains about not having enough memory:

```
/usr/bin/php: error while loading shared libraries: libXdmcp.so.6: failed to map segment from shared object: Cannot allocate memory
```

But this is not suported by anything I see on that server/VPS...

```
/proc/user_beancounters
```

```
Version: 2.5
```

uid resource	held	maxheld	barrier	limit	failcnt
101:kmemsize	8234055	10406978	67108864	73819750	0
lockedpages	0	0	256	256	0
privvmpages	61470	90406	262144	288358	0
shmpages	23	23	21504	21504	0
dummy	0	0	0	0	0
numproc	42	57	500	500	0
physpages	27087	55108	0	MAX UINT	0
vmguarpages	0	0	262144	MAX UINT	0
oomguarpages	27087	55108	262144	MAX UINT	0
numtcpsock	24	49	750	750	0
numflock	1	5	188	206	0
numpty	1	2	16	16	0
numsiginfo	0	11	256	256	0
tcpsndbuf	420096	630144	3440640	5406720	0
tcprcvbuf	393216	543296	3440640	5406720	0
othersockbuf	67744	219792	1126080	2097152	0
dgramrcvbuf	0	8472	262144	262144	0
numothersock	35	40	750	750	0
dcachesize	0	0	16777216	19293798	0
numfile	1318	1572	9312	9312	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	29	29	128	128	0

```
free -m
      total      used    free   shared  buffers   cached
Mem: 1024        240     783    0         0         0
-/+ buffers/cache:240     783
Swap:          0         0         0
```

and on the HN:

```
free -m
      total      used    free   shared  buffers   cached
Mem: 3011        1514   1496    0        186        828
-/+ buffers/cache:499   2511
Swap:         2732    0     2732
```

On the HN there is nothing else running ... on the VPS I have:

```
init+-cpanellogd
|-cpsrvd-ssl
|-crond
|-dbus-daemon
|-dovecot+-dovecot-auth
|   |-2*[imap-login]
|   `--2*[pop3-login]
|-exim
|-httpd---12*[httpd]
|-mysqld_safe---mysqld---3*[{mysqld}]
|-pure-authd
|-pure-ftpd
|-queueprocd
|-snmpd---{snmpd}
|-spamd---spamd
|-sshd
|-tailwatchd
`-vzctl---bash---pstree
```

I really don't get what is happening ... everything else is working fine, my apache server is serving static pages just fine ... At first I thought it was a apache/php thing so I recompiled ... no luck there ... (restarting the HN/VPS did not help either)

Thank you

PS Both the HN and the VPS have CentOS 5 X86_64

Subject: Re: Strange Memory Problem
Posted by [maratrus](#) on Fri, 22 Jan 2010 15:02:35 GMT
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Hello,

let me ask you a question, please?

Did you restart a VE after the problem had appeared?

The point I'm driving at is that failcounters (the last column of `/proc/user_beancounters` output) are cleared when a VE is being restarted so you might have missed that by chance. Your problem is pretty much looks like a resource shortage inside a VE and should be revealed via `/proc/user_beancounters` output.

Anyway (to make all suggestions within a single post) could you please increase `privvmpages` parameter to check that it is not a reason?

Subject: Re: Strange Memory Problem
Posted by [ziceva](#) on Fri, 22 Jan 2010 16:02:12 GMT
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Hy,

Thank you for your reply.

I stopped investigating the VPS solution for now (will probably start again in a few weeks 'cause it looks very promising).

Yes, I restarted the VPS (and the HN) ... but this only explains why the the failcount are all 0 ... it does not explain why my apache complains about not having memory (after restart) although all the counters and barriers in `user_beancounters` say otherwise ...

Another interesting thing is that only apache complains, and only if php is used as CGI (I am using suPHP on all my servers, so I need to compile PHP as a CGI program). If I use it as a DSO, it works ...

I will be doing a fresh install of the HN and the VPS and try everithing all over again (and start with a less heavy application).
