
Subject: Re: Memory overflow in an OpenVZ VPS
Posted by [samuli.seppanen](#) on Wed, 26 Sep 2007 07:44:04 GMT
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Forgot to mention that I have monit watching the memory usage of the VPS and it goes up steadily, for example:

1:30 PM: mem usage = 75%
2:30 PM: mem usage = 78%
3:25 PM: mem usage = 80%
16:10 PM: mem usage = 100%

At which point memory allocations probably fail and privvmpages failcount goes up.

> Hello everybody!

>

> I'm having problems with OpenVZ memory management. I have (probably)
> read all the Wiki articles there are that touch that subject, and
> browsed through the mailing list archives to no avail.

>

> Most of my OpenVZ VPS'es work just fine after a bit of fiddling, but one
> of them is misbehaving constantly. It always runs out of memory, no
> matter how much I give it. It is running 10 instances of a same server
> to give better interactive responsiveness. I was just wondering if the
> server program is leaking memory and causing this erratic behavior, or
> if there is something wrong with my OpenVZ VPS's configuration.

>

> The physical server runs only this one VPS. The hardware node has 2GB of
> RAM plus 2GB of swap. The VPS is given roughly 3.5GB of that if
> available (privvmpages limit). It is guaranteed 2.5GB (vmguarpages
> barrier). This is FAR more than the server software in question needs,
> but still it occasionally (and predictably) runs out of memory.

>

> The strange thing about the VPS is that the HELD values in oomguarpages
> and privvmpages are _much_ lower than the MAXHELD values - almost
> triple. There should be no usage peaks that should cause this kind of
> asymmetry, unless an instance of the server software goes amok.

>

> The VPS's resource information is shown below. The parameters are not
> optimized, as you can see, but that not my biggest problem right now :).
> So can you see anything wrong with these settings, or should I take a
> look at the server software that is running on the VPS?

>

> [root@VPS_NODE ~]# cat /proc/user_beancounters

> Version: 2.5

> uid resource held maxheld barrier limit failcnt

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> 103: kmemsize      19265157  40765738  183079731  201387704      0
>   lockedpages      0      0    8939    8939      0
>   privvmpages    383368   930126   917504   930000    153
>   shmpages       21647   24239    31099    31099      0
>   dummy          0      0      0      0      0
>   numproc        229     524    8000    8000      0
>   physpages     236810  485688      0 2147483647      0
>   vmguarpages      0      0  655360 2147483647      0
>   oomguarpages   382472  874046   310999 2147483647      0
>   numtcpsock      532     793    8000    8000      0
>   numflock        18     594    1000    1100      0
>   numpty          1      4     512     512      0
>   numsiginfo      0     39    1024    1024      0
>   tcpsndbuf     3524644 4236356 28258577 61026577      0
>   tcprcvbuf     3530300 6528712 28258577 61026577      0
>   othersockbuf   190060 1737340 14129288 46897288      0
>   dgramrcvbuf      0   41836 14129288 14129288      0
>   numothersock    204     1169   8000    8000      0
>   dcachesize      0      0 39977755 41177088      0
>   numfile        11106  22346   71488   71488      0
>   dummy          0      0      0      0      0
>   dummy          0      0      0      0      0
>   dummy          0      0      0      0      0
>   numiptent       10     10     200     200      0
>
> [root@HOST_NODE ~]# free
>      total    used    free   shared  buffers   cached
> Mem:   2073344 2017716   55628      0    66928   954828
> -/+ buffers/cache:  995960 1077384
> Swap:   2031608  586508  1445100
>
>
> Anyways, thanks for a great Open Source virtualization project!
>

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