
Subject: Re: Re: Optimizing resources from /proc/user_beancounters
Posted by [Brad Alexander](#) on Sat, 15 Oct 2011 14:11:28 GMT
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Thank you, JR. As it turns out, I was *severely* starving my VMs. vzsplrit worked like a charm...

--b

On Fri, Oct 14, 2011 at 5:35 PM, JR Richardson <jmr.richardson@gmail.com>wrote:

> > I know this is has probably been discussed ad nauseum, but I haven't
> found
> > what I'm looking for yet, so I thought I would ask here.
> >
> > I have been running OpenVZ for a few years, but in the last couple of
> weeks,
> > I have noticed over the past couple of weeks that several VMs were
> getting
> > out of spec settings, mainly dcachesize growing too large.
> >
> > These VMs started on a Debian openvz box, and as my virtual
> infrastructure
> > grew, I started using a pair of proxmox-ve machines (which is
> Debian-lenny
> > based as well), which are clustered.
> >
> > I have 8 VMs that were created over time, some on 32-bit host machines,
> some
> > on 64-bit. Thus, some have /proc/user_beancounters that look like:
> >
> > 1: kmemsize 13775736
> > 15028224 48811846 51254098 63446
> > lockedpages 0
> > 447 393216 393216 0
> > privvmpages 15152
> > 105895 426752 439252 0
> > shmpages 648
> > 1304 21504 21504 0
> > dummy 0
> > 0 0 0 0
> > numproc 47
> > 72 240 240 0
> > physpages 166345
> > 425143 0 2147483647 0
> > vmguarpages 0
> > 0 426752 2147483647 0
> > oomguarpages 6374

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>> 97683      426752      2147483647      0
>>      numtcpsock      44
>> 48      360      360      0
>>      numflock      1
>> 7      188      206      0
>>      numpty      0
>> 2      16      16      0
>>      numsiginfo      1
>> 27      256      256      0
>>      tcpsndbuf      525744
>> 1026352      4212558      6014798      0
>>      tcprcvbuf      524552
>> 3052984      4212558      6014798      0
>>      othersockbuf      46240
>> 65808      1126080      2097152      0
>>      dgramrcvbuf      0
>> 101600      262144      262144      0
>>      numothersock      75
>> 82      360      360      0
>>      dcachesize      9997638
>> 10000000      8000000      10000000      0
>>      numfile      508
>> 695      9312      9312      0
>>      dummy      0
>> 0      0      0      0
>>      dummy      0
>> 0      0      0      0
>>      dummy      0
>> 0      0      0      0
>>      numiptent      20
>> 20      128      128      0
>>
>> While others have effectively unlimited barrier and limit settings:
>>
>> 7: kmemsize      93292551      107253760
>> 9223372036854775807 9223372036854775807      0
>>      lockedpages      0
>> 16      393216      393216      0
>>      privvmpages      299033
>> 413214      524288      536788      0
>>      shmpages      68      724
>> 9223372036854775807 9223372036854775807      0
>>      dummy      0
>> 0      0      0      0
>>      numproc      86
>> 108      1024      1024      0
>>      physpages      321589
>> 496217      0 9223372036854775807      0

```

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> > vmguarpages 0
> > 0 524288 9223372036854775807 0
> > oomguarpages 155305
> > 180405 524288 9223372036854775807 0
> > numtcpsock 13 17
> > 9223372036854775807 9223372036854775807 0
> > numflock 3 9
> > 9223372036854775807 9223372036854775807 0
> > numpty 0
> > 2 255 255 0
> > numsiginfo 1
> > 15 1024 1024 0
> > tcpsndbuf 226720 329312
> > 9223372036854775807 9223372036854775807 0
> > tcprcvbuf 277072 5662864
> > 9223372036854775807 9223372036854775807 0
> > othersockbuf 43928 66680
> > 9223372036854775807 9223372036854775807 0
> > dgramrcvbuf 0 5648
> > 9223372036854775807 9223372036854775807 0
> > numothersock 63 69
> > 9223372036854775807 9223372036854775807 0
> > dcachesize 88045648 101016538
> > 9223372036854775807 9223372036854775807 0
> > numfile 360 605
> > 9223372036854775807 9223372036854775807 0
> > dummy 0
> > 0 0 0 0
> > dummy 0
> > 0 0 0 0
> > dummy 0
> > 0 0 0 0
> > numiptent 20 20
> > 9223372036854775807 9223372036854775807 0
> >
> > I have three questions. First, I know that leaving everything unlimited
> is a
> > quick path to running out of resources on the host machine. That said,
> I've
> > been having troubles recently with the VMs with "normal" settings. It
> > started out with dcachesize going out of spec, which, when I adjusted it,
> > within an hour, I started getting out of memory errors, requiring me to
> up
> > the kmemsize...This then caused problems on another "normal" VM, and so
> > forth.
> >
> > As I said, I know setting everything to unlimited is probably not
> > recommended, so what is the recommended way to set the proper values for

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> > user_beancounters? Every time I change values in user_beancounters,
> > something else comes unglued, except for the ones that have unlimited
> > kmemsize and dcachesize.
> >
> > Is there a tool to set up the values based on the use of the particular
> VM?
> > Is there any more information I need to provide?
> >
> > Thanks,
> > --b
> Try using vzsplitt to segment your VE's equally, start there and
> increase/decrease resources per the demand of each VE. Once you
> adjust your config conf files, use vzcfgvalidate to ensure your beans
> are adjusted properly.
>
> Good luck.
>
> JR
> --
> JR Richardson
> Engineering for the Masses
>
