Subject: Re: Committed_AS = 4TB
Posted by Vasily Tarasov on Tue, 08 May 2007 08:46:02 GMT
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Hello,

For me it seems to be strange too... Can you, please, post the output
of /proc/user_beancounters here in order to see which VE allocates so
much memory.

Thanks,
Vasily.

On Mon, 2007-05-07 at 15:27 +0200, Jan Tomasek wrote:
> Hello,
>
> my system have Committed_AS: 4253406264 kB, it is not causing any
> problems (except of munin which is draving just line on zero). I found
> this explanation:
>
> # Committed_AS: An estimate of how much RAM you would need to make a
> 99.99% guarantee that there never is OOM (out of memory) for this
> workload. Normally the kernel will overcommit memory. That means, say
> you do a 1GB malloc, nothing happens, really. Only when you start USING
> that malloc memory you will get real memory on demand, and just as much
> as you use. So you sort of take a mortgage and hope the bank doesn't go
> bust. Other cases might include when you mmap a file that's shared only
> when you write to it and you get a private copy of that data. While it
> normally is shared between processes. The Committed_AS is a guesstimate
> of how much RAM/swap you would need worst-case.
>
> http://www.redhat.com/advice/tips/meminfo.html
>
> I'm having troubles to identify who allocated that much memory.
>
> > top - 15:16:17 up 29 days, 5:02, 2 users, load average: 7.01, 6.83, 6.66
> > Tasks: 460 total, 7 running, 452 sleeping, 1 stopped, 0 zombie
> > Cpu(s): 0.2%us, 1.4%sy, 76.0%ni, 22.4%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
> > Mem: 8303004k total, 8146708k used, 156296k free, 334560k buffers
> > Swap: 24579440k total, 196k used, 24579244k free, 6876788k cached
> >
> > PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND

> > 16430 semik 10 -10 1215m 1.0g 1.0g S 2 13.1 133:56.51 vmware-vmx

> > 10950 root 18 0 1199m 66m 5784 S 0 0.8 0:39.85 java

> > 16463 semik 7 -10 533m 428m 410m S 1 5.3 58:29.35 vmware-vmx

> > 16446 semik 5 -10 391m 280m 266m S 5 3.5 245:58.27 vmware-vmx

> > 2575 www-data 21 0 225m 2936 1448 S 0 0.0 0:00.00 apache2

> > 2577 www-data 21 0 225m 2928 1452 S 0 0.0 0:00.00 apache2

> > 11128 25 24 0 96916 10m 2068 S 0 0.1 0:02.29 named
>
> rest of process have virt. mem size <<100MB.
>
> My system has 8GB of physical RAM. Runing 2.6.18-028stab023 and VMware
> Server - that might be source but... VMware workstation is not causing
> this (tested on other system). Meminfo:
>
> staj# cat /proc/meminfo
> MemTotal: 8303004 kB
> MemFree: 154140 kB
> Buffers: 334616 kB
> Cached: 6877772 kB
> SwapCached: 0 kB
> Active: 4035760 kB
> Inactive: 3536216 kB
> HighTotal: 7470840 kB
> HighFree: 132144 kB
> LowTotal: 832164 kB
> LowFree: 21996 kB
> SwapTotal: 24579440 kB
> SwapFree: 24579244 kB
> Dirty: 732 kB
> Writeback: 0 kB
> AnonPages: 359868 kB
> Mapped: 1814360 kB
> Slab: 464916 kB
> PageTables: 9756 kB
> NFS_Unstable: 0 kB
> Bounce: 0 kB
> CommitLimit: 28730940 kB
> Committed_AS: 4253406264 kB
> VmallocTotal: 118776 kB
> VmallocUsed: 42692 kB
> VmallocChunk: 75716 kB
>
> and vzmemcheck:
>
> > staj:/etc# vzmemcheck -v
> > Output values in %
> > veid LowMem LowMem RAM MemSwap MemSwap Alloc Alloc Alloc

```
> >            util  commit    util    util  commit    util  commit   limit
> > 233003      0.15    1.31    0.03    0.01    0.09    0.01    0.09    0.66
> > 233250      1.26   11.88    0.49    0.12    0.20    0.40    0.20   38.39
> > 233104      0.14   10.67    0.03    0.01    0.18    0.01    0.18   38.37
> > 233103      0.17   10.67    0.03    0.01    0.18    0.01    0.18   38.37
> > 233107      0.17   10.67    0.03    0.01    0.18    0.01    0.18   38.37
> > 233106      0.16   10.67    0.03    0.01    0.18    0.01    0.18   38.37
> > 233105      0.16   10.67    0.03    0.01    0.18    0.01    0.18   38.37
> > 233102      0.18   10.67    0.03    0.01    0.18    0.01    0.18   38.37
> > 233101      0.18   10.67    0.03    0.01    0.18    0.01    0.18   38.37
> > 233009      0.42    9.13    0.11    0.03    0.17    0.05    0.17   38.36
> > 233249      0.92   10.67    0.60    0.15    0.18    1.52    0.18   38.37
> > 222119      0.44   10.67    0.12    0.03    0.18    0.05    0.18   38.37
> > 233008      1.22    9.13    1.01    0.26    0.17    3.85    0.17   38.36
> > 233006      1.11   10.67    1.34    0.34    0.18    0.37    0.18   38.37
> > 222121      0.17    9.13    0.03    0.01    0.17    0.01    0.17   38.36
> > 192002      0.24    4.64    0.04    0.01    0.12    0.01    0.12   38.31
> >  ------------------------------------------------------------ -------------
> > Summary:     7.09  151.91    3.97    1.00    2.73    6.35    2.73  576.18
>
>
> Does anybody know how to explain that 4TB?
>
```