
Subject: vzmemcheck seems to report incorrect values
Posted by [compsyguy](#) on Tue, 23 Aug 2011 18:45:20 GMT
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Either I'm calculating things out wrong, or vzmemcheck is reporting incorrect values.

Some notes about my system:
Debian 6
Kernel 2.6.32-5-openvz-amd64
System Memory 6103328k
Swap Space 19836912k

I've currently got 1 container that's set for 1G of memory.

For some reason vzmemcheck is reporting that I've got 0.49 MemSwap commit and 4.13 Alloc Limit.

```
vzmemcheck -v
Output values in %
veid      LowMem LowMem  RAM MemSwap MemSwap  Alloc  Alloc  Alloc
          util commit util  util commit  util commit limit
101       0.10  0.91  0.16  0.04  0.49  0.05  0.61  4.13
-----
Summary:   0.10  0.91  0.16  0.04  0.49  0.05  0.61  4.13
```

Looking at UBC_systemwide_configuration#Allocated_memory (can't use a link cause I'm new) it says that Alloc Limit is calculated by:
 $\text{privvmpages}(\text{lim}) * 4096 + \text{kmemsize}(\text{lim}) + \text{allsocketbuf}(\text{lim}) / (\text{Ram size} + \text{swap space})$

So I plug in the values for my VE:
 $\text{privvmpages}(\text{lim}) = 262144$
 $\text{kmemsize}(\text{lim}) = 14790164$
 $\text{tcpwndbuf} = 2703360$
 $\text{tcprcvbuf} = 2703360$
 $\text{othersockbuf} = 2252160$
 $\text{dgramrcvbuf} = 262144$

Plugging those values into the equation I get:
 $(262144 * 4096 + 14790164 + 2703360 + 2703360 + 2252160 + 262144) / (6249807872 + 20312997888)$

...
 $1096453012 / 26562805760 = 0.0413$

Which is off by a factor of 100.

Can anyone tell me if I'm calculating the alloc limit correctly? If I am calculating it correctly, should I

worry about vzmemcheck reporting incorrectly?

Any help is appreciated.

Thanks!
