Subject: vzmemcheck seems to report incorrect values
Posted by compsyguy on Tue, 23 Aug 2011 18:45:20 GMT
View Forum Message <> Reply to Message

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 util	LowMem commit	RAM util	MemSwap util	MemSwap commit	Alloc util	Alloc commit	Alloc 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:
privvmpages(lim) * 4096 + kmemsize(lim) + allsocketbuf(lim) / (Ram size + swap space)

So I plug in the values for my VE:
privvmpages(lim) = 262144
kmemsize(lim) = 14790164
tcpsndbuf = 2703360
tcprcvbuf = 2703360
othersockbuf = 2252160
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 aloc limit correctly? If I am calculating it correctly, should I

worry about vzmemcheck reporting incorrectly?

Any help is appreciated.

Thanks!