Subject: Memory Allocation issues
Posted by Boetsj on Mon, 23 Nov 2009 16:29:59 GMT
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These are the BCs of our single container:

uid	resource	held	maxheld	barrier	limit	failcnt
3033:	kmemsize	36955651	75967463	178968985	196865883	0
	lockedpages	0	0	8738	8738	0
	privvmpages	711902	1428852	1415504	1515504	4490741
	shmpages	3216	8352	50391	50391	0
	dummy	0	0	0	0	0
	numproc	554	1260	8000	8000	0
	physpages	299162	584303	0	2147483647	0
	vmguarpages	0	0	625000	2147483647	0
	oomguarpages	386470	638714	1415504	2147483647	0
	numtcpsock	86	315	8000	8000	0
	numflock	277	373	1000	1100	0
	numpty	3	8	512	512	0
	numsiginfo	1	12	1024	1024	0
	tcpsndbuf	3907620	5395756	26888328	59656328	0
	tcprcvbuf	1478312	3401544	26888328	59656328	0
	othersockbuf	769392	2002428	13444164	46212164	0
	dgramrcvbuf	0	50184	13444164	13444164	0
	numothersock	671	1594	8000	8000	0
	dcachesize	2108694	2759840	39082998	40255488	0
	numfile	14758	42480	69888	69888	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

As you can see, alot of failcounts on our privvmpages. Some processes do get killed and to my knowledge, I can't go any higher on the pages.. As I'm pretty new to this kind of stuff, what am I doing wrong?

The HN has 3,2GB of RAM and about 3,5GB of swap..

Subject: Re: Memory Allocation issues
Posted by kir on Mon, 23 Nov 2009 17:28:20 GMT
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privvmpages is allocated (but not always used) memory. Many apps (such as Java) tend to allocate much more than they actually use.

Rules (constraints) of privvmpages allocation for multiple containers are described here:
http://wiki.openvz.org/UBC_systemwide_configuration#Allocate d_memory

You can use vzmemcheck to see if you are on the safe side.

Subject: Re: Memory Allocation issues
Posted by Boetsj on Tue, 24 Nov 2009 08:14:43 GMT
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Well, on our node there's only one container. I want it to give the maximum amount of resources available. I already calculated the privvmpages and oomguarpages to 0.85% of the system resources but it still seem to swap a lot AND the average cpu wait is around 30%. Is this normal?

Subject: Re: Memory Allocation issues
Posted by kir on Tue, 24 Nov 2009 10:36:28 GMT
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privvmpages can be set up to RAM+swap, i.e. if you have 4G RAM and 8G swap you can set privvmpages to about 12G, sometimes even more.

In other words, if you only have one container (and the host system) your privvmpages is way too low.
