Subject: *SOLVED* Unrealistic privvmpages usage
Posted by mephisto on Thu, 15 Mar 2007 16:34:16 GMT
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Hi,

I'm running F-Secure Policy Manager 6.0 inside a CentOS VE and have also tried this with FSPM 7.0 inside a Debian 3.1 VE.
In both cases the F-Secure Policy Manager Server seems to consume extreme amounts of memory (as seen in user_beancounters), while this is not reflected on the hardware node (running free -m). FSPM seems to be based on Apache, so this might be something that can be seen with Apache only, but my Apache installations don't show this problem. Here are the details:

FSPMS not running:
Inside the VE:
Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
104:	kmemsize	772084	2515183	33556806	36875611	0
	lockedpages	0	0	4490	4490	0
	privvmpages	3522	152370	279000	300000	0
	shmpages	0	299	23293	23293	0
	dummy	0	0	0	0	0
	numproc	11	75	4000	4000	0
	physpages	1031	3557	0	2147483647	0
	vmguarpages	0	0	125952	2147483647	0
	oomguarpages	1031	3557	125952	2147483647	0
	numtcpsock	1	10	4000	4000	0
	numflock	1	19	1000	1100	0
	numpty	1	1	400	400	0
	numsiginfo	0	5	1024	1024	0
	tcpsndbuf	8944	121832	14272375	30656375	0
	tcprcvbuf	16384	180600	14272375	30656375	0
	othersockbuf	11180	19560	7136187	23520187	0
	dgramrcvbuf	0	1212	7136187	7136187	0
	numothersock	7	10	4000	4000	0
	dcachesize	0	0	20078353	20680704	0
	numfile	220	1349	35904	35904	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	numiptent	4	4	200	200	0

On the hardware node:

	total	used	free	shared	buffers	cached
Mem:	1516	1452	63	0	55	746
-/+ buffers/cache:		649	866			
Swap:	972	5	966			

FSPMS running:
Inside the VE:
Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt
104:	kmemsize	2004664	2515183	33556806	36875611	0
	lockedpages	0	0	4490	4490	0
	privvmpages	148100	152370	279000	300000	0
	shmpages	299	299	23293	23293	0
	dummy	0	0	0	0	0
	numproc	69	75	4000	4000	0
	physpages	2864	3557	0	2147483647	0
	vmguarpages	0	0	125952	2147483647	0
	oomguarpages	2864	3557	125952	2147483647	0
	numtcpsock	7	10	4000	4000	0
	numflock	17	19	1000	1100	0
	numpty	1	1	400	400	0
	numsiginfo	0	5	1024	1024	0
	tcpsndbuf	62608	121832	14272375	30656375	0
	tcprcvbuf	114688	180600	14272375	30656375	0
	othersockbuf	6708	19560	7136187	23520187	0
	dgramrcvbuf	0	1212	7136187	7136187	0
	numothersock	5	10	4000	4000	0
	dcachesize	0	0	20078353	20680704	0
	numfile	1247	1349	35904	35904	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	dummy	0	0	0	0	0
	numiptent	4	4	200	200	0

On the hardware node:

	total	used	free	shared	buffers	cached
Mem:	1516	1461	54	0	56	747
-/+ buffers/cache:		658	858			
Swap:	972	5	966			

How can this be explained? How could it be resolved?

Best Regards,

Frederik

Subject: Re: Unrealistic privvmpages usage
Posted by mephisto on Thu, 15 Mar 2007 16:44:09 GMT
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For those who would like to confirm: The server can be downloaded from http://www.f-secure.com/webclub/fspml.html for Debian, SuSE and Red Hat. It installs nicely into

Debian template, so it can be set up within minutes.

Subject: Re: Unrealistic privvmpages usage
Posted by Vasily Tarasov on Fri, 16 Mar 2007 07:32:36 GMT
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Hello,

The thing is that privvmpages is not the entity you think about. privvmpages - is the amount of allocated space! Usual applications allocate a lot of memmory, but use only 10-20% of it. Some application use even less percentage.

For more information refer to http://wiki.openvz.org/Privvmpages#privvmpages

Vasily