
Subject: KMEMSIZE high failcount - why?
Posted by [bjmg](#) on Mon, 13 Mar 2006 15:56:41 GMT
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Hi,

I am using OpenVZ since about 3 months now. On a new host server (32bit system, 1 GB RAM, CentOS 4.2) I set up a debian VPS (based on the template provided on your FTP server). Now the problem is that I get a REALLY high failcount for kmemsize. It is completely irrelevant what values for KMEMSIZE I use I always get nearly the same values. The problem is that the value is already that high about 1 second after start. I really hope someone of the developers can help me.

First, here is the output of /proc/user_beancounters:

Version: 2.5

uid	resource	held	maxheld	barrier	limit	failcnt	
0:	kmemsize	1859563	2704948	2147483647	2147483647	0	0
	lockedpages	0	0	2147483647	2147483647	0	
	privvmpages	2726	10843	2147483647	2147483647	0	0
	shmpages	668	1324	2147483647	2147483647	0	0
	dummy	0	0	2147483647	2147483647	0	
	numproc	31	48	2147483647	2147483647	0	
	physpages	1460	6779	2147483647	2147483647	0	0
	vmguarpages	0	0	2147483647	2147483647	0	
	oomguarpages	1488	6779	2147483647	2147483647	0	0
	numtcpsock	2	7	2147483647	2147483647	0	
	numflock	1	5	2147483647	2147483647	0	
	numpty	2	4	2147483647	2147483647	0	
	numsiginfo	0	4	2147483647	2147483647	0	
	tcpsndbuf	2228	138136	2147483647	2147483647	0	0
	tcprcvbuf	0	122540	2147483647	2147483647	0	0
	othersockbuf	5148	75752	2147483647	2147483647	0	0
	dgramrcvbuf	0	8912	2147483647	2147483647	0	0
	numothersock	8	20	2147483647	2147483647	0	0
	dcachesize	1025164	1076824	2147483647	2147483647	0	0
	numfile	140	328	2147483647	2147483647	0	
	dummy	0	0	2147483647	2147483647	0	
	dummy	0	0	2147483647	2147483647	0	
	dummy	0	0	2147483647	2147483647	0	
	numiptent	10	10	2147483647	2147483647	0	
22114:	kmemsize	6886100	7882846	9752512	9936012	773421	
	lockedpages	0	0	128	128	0	
	privvmpages	73406	112592	256000	262140	0	0
	shmpages	668	1978	8192	8192	0	
	dummy	0	0	0	0	0	
	numproc	100	116	127	192	0	
	physpages	25985	65609	0	2147483647	0	

vmguarpages	0	0	131072	2147483647	0
oomguarpages	25986	66342	6144	2147483647	0
numtcpsock	27	64	127	255	0
numflock	17	23	100	110	0
numpty	2	4	16	16	0
numsignifo	0	22	256	256	0
tcpsndbuf	26736	188536	519488	924288	0
tcprcvbuf	0	222800	519488	924288	0
othersockbuf	181408	285344	532096	936896	0
dgramrcvbuf	0	60156	332096	332096	0
numothersock	147	171	255	300	0
dcachesize	381207	445495	1048576	1097728	0
numfile	1068	1377	3072	4096	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	143	143	128	256	0

Here is the output of `uname -a`:

```
Linux master.my-domain.net 2.6.8-022stab070.1-enterprise #1 SMP Mon Feb 20 19:31:28 MSK
2006 i686 athlon i386 GNU/Linux
```

Here is the config file of VPS 22114:

```
ONBOOT="yes"

# UBC parameters (in form of barrier:limit)
# Primary parameters
AVNUMPROC="70:80"
NUMPROC="127:192"
NUMTCP SOCK="127:255"
NUMOTHERSOCK="255:300"
VMGUARPAGES="131072:2147483647"
# Secondary parameters
KMEMSIZE="9752512:9936012"
TCPSNDBUF="519488:924288"
TCPRCVBUF="519488:924288"
OTHERSOCKBUF="532096:936896"
DGRAMRCVBUF="332096:332096"
OOMGUARPAGES="6144:2147483647"
# Auxiliary parameters
LOCKEDPAGES="128:128"
SHMPAGES="8192:8192"
PRIVVMPAGES="256000:262140"
NUMFILE="3072:4096"
```

```
NUMFLOCK="100:110"
NUMPTY="16:16"
NUMSIGINFO="256:256"
DCACHESIZE="1048576:1097728"
PHYSPAGES="0:2147483647"
NUMIPTENT="128:256"
# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="32048576:32153434"
DISKINODES="200000:220000"
QUOTATIME="0"

# CPU fair sheduler parameter
CPUUNITS="1000"
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
ALLOWREBOOT="yes"
OSTEMPLATE="debian-3.1"
ORIGIN_SAMPLE="vps.basic"
IP_ADDRESS="10.10.221.14"
HOSTNAME="web.my-domain.org"
QUOTAUGIDLIMIT="150"
```

I really hope this is enough information such that someone of the developers/supporters can help me.

Thanks

Bernhard

Subject: Re: KMEMSIZE high failcount - why?
Posted by [kir](#) on Mon, 13 Mar 2006 17:41:52 GMT
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It happens...

Most probable reason is some application is trying to grab some high amount of memory. So, look for some strange memory-related messages from logs.

Another reason could be a stateful firewall inside a VPS -- if there are too many connections, netfilter can allocate quite a big amounts of kernel memory. Are there a lot of records in /proc/net/ip_contrack file inside a VPS? Does it help to run a VPS without any iptables rules (you can actually clone a VPS and run its clone without iptables to check)?

Subject: Re: KMEMSIZE high failcount - why?

Posted by [bjmg](#) on Wed, 15 Mar 2006 11:27:02 GMT

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Thanks kir,

The problem was that some one my parameters were too low and mysql tried to allocate much more memory. Now I used vzsplrit to generate the config and everything seems to work fine.

Bernhard

Subject: Re: KMEMSIZE high failcount - why?

Posted by [powervps](#) on Fri, 07 Dec 2007 08:00:14 GMT

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vzsplrit ? how
