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Subject: Re: Out-of-memory question  
Posted by [kir](#) on Thu, 04 Jan 2007 15:20:27 GMT  
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See [http://wiki.openvz.org/Resource\\_shortage](http://wiki.openvz.org/Resource_shortage)

Douglas G. Phillips wrote:

> I'm hitting a strange error, and I wanted to get the input of the list  
> on it. When I try to execute java on the VE, I get this error:  
>  
> [iguana@charade ~]\$ /usr/local/java/bin/java -version  
> Error occurred during initialization of VM  
> Could not reserve enough space for object heap  
> Could not create the Java virtual machine.  
>  
> If I run java from the HN, no problems, it reports the version  
> information as expected.  
>  
> Any ideas?  
>  
> Information to (hopefully) help figure out what's going on:  
>  
> System:  
> 512MB RAM, 700MHz Athlon Processor  
> RedHat FC 4 (latest updates applied)  
> kernel-2.6.18-ovz028test007.1  
>  
> VE: CentOS 4.4  
>  
> VZ package versions:  
> vzquota-3.0.9-1  
> vzctl-lib-3.0.13-1  
> vzctl-3.0.13-1  
>  
> Output of "free" (with VE mounted and running):  
>  
>                   total       used  
> free     shared  buffers  cached  
> Mem:               513596  491788  21808       0  
> 57224   385296  
> -/+ buffers/cache:   49268   464328  
> Swap:             819192   84       819108  
>  
> Output of vzmemcheck:  
> Output values in %  
> LowMem LowMem   RAM MemSwap MemSwap  Alloc  Alloc  Alloc  
> util commit util  util commit  util commit limit  
> 0.54  2.12  4.77  1.84  2.17  8.96  2.17  16.41  
>

> These are the processes that are running (including in the VE):

```
> USER      PID %CPU %MEM  VSZ  RSS TTY      STAT START  TIME COMMAND
> root      1 0.0 0.1 1740 548 ?      Ss   2006  0:00 init [3]
> root      2 0.0 0.0   0   0 ?      S    2006  0:00
> [migration/0/0]
> root      3 0.0 0.0   0   0 ?      SN   2006  0:00
> [ksoftirqd/0]
> root      4 0.0 0.0   0   0 ?      S<   2006  0:00
> [events/0]
> root      5 0.0 0.0   0   0 ?      S<   2006  0:00
> [khelper]
> root      6 0.0 0.0   0   0 ?      S<   2006  0:00
> [kthread]
> root     13 0.0 0.0   0   0 ?      S<   2006  0:00
> [kblockd/0]
> root     14 0.0 0.0   0   0 ?      S<   2006  0:00 [kacpid]
> root     174 0.0 0.0   0   0 ?      S<   2006  0:00
> [kseriod]
> root     237 0.0 0.0   0   0 ?      S    2006  0:00
> [ubstatd]
> root     241 0.0 0.0   0   0 ?      S<   2006  0:02
> [kswapd0]
> root     242 0.0 0.0   0   0 ?      S<   2006  0:00 [aio/0]
> root     887 0.0 0.0   0   0 ?      S<   2006  0:00 [ata/0]
> root     888 0.0 0.0   0   0 ?      S<   2006  0:00
> [ata_aux]
> root     908 0.0 0.0   0   0 ?      S<   2006  0:00
> [kpsmoused]
> root     911 0.0 0.0   0   0 ?      S<   2006  0:00
> [kcryptd/0]
> root     912 0.0 0.0   0   0 ?      S<   2006  0:00
> [kmpathd/0]
> root     913 0.0 0.0   0   0 ?      S<   2006  0:00
> [kmirror]
> root     927 0.0 0.0   0   0 ?      S<   2006  0:08
> [kjournald]
> root    1007 0.0 0.0   0   0 ?      S<   2006  0:00 [khubd]
> root    2153 0.0 0.0 1648 420 ?      S<S  2006  0:00 udevd -d
> root    2794 0.0 0.0   0   0 ?      S<   2006  0:00
> [kjournald]
> root    4115 0.0 0.0   0   0 ?      S    2006  0:00 [vzmond]
> root    4146 0.0 0.1 1608 556 ?      Ss   2006  0:01
> syslogd -m 0
> root    4148 0.0 0.0 1560 412 ?      Ss   2006  0:00 klogd -x
> rpcuser  4179 0.0 0.1 1740 716 ?      Ss   2006  0:00
> rpc.statd
> root    4220 0.0 0.1 4372 568 ?      Ss   2006  0:00
> rpc.idmapd
```

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> root 4388 0.0 0.2 4400 1064 ? Ss 2006 0:00
> /usr/sbin/sshd
> root 4426 0.0 0.1 4568 936 ? Ss 2006 0:00 crond
> root 4440 0.0 0.0 1804 428 ? Ss 2006 0:00
> /usr/sbin/atd
> dbus 4554 0.0 0.1 2548 996 ? Ss 2006 0:00
> dbus-daemon --system
> nobody 4573 0.0 0.1 2208 664 ? S 2006 0:00
> /usr/sbin/dnsmasq -s sbslocal
> root 4581 0.0 0.0 1544 452 tty3 Ss+ 2006 0:00
> /sbin/mingetty tty3
> root 4582 0.0 0.0 1548 456 tty4 Ss+ 2006 0:00
> /sbin/mingetty tty4
> root 4583 0.0 0.0 1548 452 tty5 Ss+ 2006 0:00
> /sbin/mingetty tty5
> root 4584 0.0 0.0 1544 452 tty6 Ss+ 2006 0:00
> /sbin/mingetty tty6
> root 30876 0.0 0.0 0 0 ? S 2006 0:01
> [pdflush]
> root 30879 0.0 0.0 0 0 ? S 2006 0:00
> [pdflush]
> root 349 0.0 0.2 2420 1272 ? Ss 2006 0:00 login
> -- iguana
> iguana 358 0.0 0.2 4380 1408 tty1 Ss+ 2006 0:00 -bash
> root 2237 0.0 0.0 1548 424 tty2 Ss+ Jan01 0:00
> /sbin/mingetty tty2
> root 27263 0.0 0.4 7276 2260 ? Ss 18:50 0:00 sshd:
> iguana [priv]
> iguana 27269 0.0 0.3 7436 1724 ? S 18:50 0:00 sshd:
> iguana@pts/0
> iguana 27274 0.0 0.2 4380 1436 pts/0 Ss 18:50 0:00 -bash
> root 29557 0.0 0.1 1696 600 ? Ss 19:42 0:00 init [3]
> root 29558 0.0 0.0 0 0 ? S< 19:42 0:00
> [migration/101/0]
> root 30944 0.0 0.1 1596 544 ? Ss 19:42 0:00
> syslogd -m 0
> root 30954 0.0 0.2 4080 1128 ? Ss 19:42 0:00
> /usr/sbin/sshd
> root 30967 0.0 0.1 2148 792 ? Ss 19:42 0:00
> xinetd -stayalive -pidfile /v
> root 30978 0.0 0.2 2216 1124 ? S 19:42 0:00
> /bin/sh /usr/bin/mysqld_safe
> 100 31002 0.0 2.7 100432 14260 ? SI 19:42 0:00
> /usr/sbin/mysqld --basedir=/
> root 31030 0.0 0.3 7380 1848 ? Ss 19:42 0:00
> sendmail: accepting connectio
> smmsp 31038 0.0 0.3 6480 1628 ? Ss 19:43 0:00
> sendmail: Queue runner@01:00:

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> root 31064 0.0 0.4 7660 2400 ? Ss 19:43 0:00
> /usr/sbin/httpd
> 48 31065 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31066 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31067 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31068 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31073 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31074 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31075 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31076 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> root 31081 0.0 0.1 2476 912 ? Ss 19:43 0:00 crond
> root 31242 0.0 0.4 6920 2196 ? Ss 19:59 0:00 sshd:
> iguana [priv]
> iguana 31244 0.0 0.3 6920 1604 ? S 19:59 0:00 sshd:
> iguana@pts/0
> iguana 31245 0.0 0.2 2224 1284 /vz/root/101/dev/pts/0 Ss+
> 19:59 0:00 -bash
> iguana 31467 0.0 0.1 4484 928 pts/0 R+ 20:07 0:00 ps aux
>
> From within the VE, the following programs are running:
>
> xinetd
> sendmail
> httpd
> sshd
> crond
> syslogd
> mysql
```

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