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Subject: vps memory leak

Posted by [grummund](#) on Sun, 16 Apr 2006 10:13:17 GMT

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Hi,

Could someone tell me if this problem is due to a bug in openvz or a possible configuration error?

I have been allocated 64MB RAM on this vps, which should be enough for my needs but it seems all too easy to stuff the system and end up with a permanent "fork: Cannot allocate memory" errors.

What raises suspicions is this from `bean_counters`:

```
uid resource      held  maxheld  barrier  limit  failcnt
privvmpages      14192  19309   16384   16384   723
how can maxheld be greater than barrier??
```

Pasted below are the full actions to cause this, the above snippet is from the last cat of `bean_counters`.

I have also raised a report for this in bugzilla:

[http://bugzilla.openvz.org/show\\_bug.cgi?id=141](http://bugzilla.openvz.org/show_bug.cgi?id=141)

```
foobar:~# ls /
bin dev home  lib  mnt  proc  sbin  swapfile  tmp  var
boot etc initrd media opt root srv  sys    usr
foobar:~# ls -l /
total 130268
drwxr-xr-x  2 root root    4096 Apr 11 08:21 bin
drwxr-xr-x  2 root root    4096 Dec 15 2004 boot
drwxr-xr-x 11 root root   24576 Apr 15 23:35 dev
drwxr-xr-x 35 root root    4096 Apr 15 23:35 etc
drwxrwsr-x  3 root staff   4096 Apr 15 11:26 home
drwxr-xr-x  2 root root    4096 Dec 20 11:44 initrd
drwxr-xr-x  6 root root    4096 Apr 15 11:18 lib
drwxr-xr-x  2 root root    4096 Dec 20 11:44 media
drwxr-xr-x  2 root root    4096 Dec 15 2004 mnt
drwxr-xr-x  2 root root    4096 Dec 20 11:44 opt
dr-xr-xr-x 339 root root      0 Apr 15 23:35 proc
drwx----- 3 root root    4096 Apr 15 21:50 root
drwxr-xr-x  2 root root    4096 Apr 11 08:21 sbin
drwxr-xr-x  2 root root    4096 Dec 20 11:44 srv
-rw-r--r--  1 root root 133169152 Apr 15 23:23 swapfile
drwxr-xr-x  2 root root    4096 May 10 2005 sys
drwxrwxrwt  2 root root    4096 Apr 16 00:28 tmp
drwxr-xr-x 11 root root    4096 Dec 20 11:44 usr
drwxr-xr-x 13 root root    4096 Dec 20 11:44 var
```

```

foobar:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
simfs           350M 304M  47M  87% /
tmpfs           443M   0 443M   0% /dev/shm
foobar:~# ls -hl /
total 128M
drwxr-xr-x  2 root root  4.0K Apr 11 08:21 bin
drwxr-xr-x  2 root root  4.0K Dec 15  2004 boot
drwxr-xr-x 11 root root  24K Apr 15 23:35 dev
drwxr-xr-x 35 root root  4.0K Apr 15 23:35 etc
drwxrwsr-x  3 root staff 4.0K Apr 15 11:26 home
drwxr-xr-x  2 root root  4.0K Dec 20 11:44 initrd
drwxr-xr-x  6 root root  4.0K Apr 15 11:18 lib
drwxr-xr-x  2 root root  4.0K Dec 20 11:44 media
drwxr-xr-x  2 root root  4.0K Dec 15  2004 mnt
drwxr-xr-x  2 root root  4.0K Dec 20 11:44 opt
dr-xr-xr-x 339 root root    0 Apr 15 23:35 proc
drwx----- 3 root root  4.0K Apr 15 21:50 root
drwxr-xr-x  2 root root  4.0K Apr 11 08:21 sbin
drwxr-xr-x  2 root root  4.0K Dec 20 11:44 srv
-rw-r--r--  1 root root 127M Apr 15 23:23 swapfile
drwxr-xr-x  2 root root  4.0K May 10  2005 sys
drwxrwxrwt  2 root root  4.0K Apr 16 00:28 tmp
drwxr-xr-x 11 root root  4.0K Dec 20 11:44 usr
drwxr-xr-x 13 root root  4.0K Dec 20 11:44 var
foobar:~# rm /swapfile
foobar:~# cat /proc/user_beancounters
Version: 2.5

```

uid resource	held	maxheld	barrier	limit	failcnt	
207: kmemsize	641716	685388	33554432	67108864		0
lockedpages	0	0	4	4	0	
privvmpages	11109	16206	16384	16384	100	
shmpages	960	976	1152	1152	2	
dummy	0	0	0	0	0	
numproc	13	15	60	60	0	
physpages	1197	1237	0	2147483647	0	
vmguarpages	0	0	1725	2147483647	0	
oomguarpages	1197	1237	1725	2147483647	0	0
numtcpsock	3	3	10	10	0	
numflock	2	4	50	100	0	
numpty	2	2	10	10	0	
numsiginfo	0	2	256	256	0	
tcpsndbuf	6660	13320	1048576	1048576	0	
tcprcvbuf	0	2220	1048576	1048576	0	
othersockbuf	2220	6408	65536	102400	0	
dgramrcvbuf	0	1196	65536	102400	0	
numothersock	7	10	10	10	0	
dcachesize	52530	56135	99000	99000	0	

```

numfile      141    160    800    1000    0
dummy        0      0      0      0      0
dummy        0      0      0      0      0
dummy        0      0      0      0      0
numiptent    4      4      50     50     0

```

foobar:~# cat /proc/user\_beancounters

Version: 2.5

```

uid resource      held  maxheld  barrier  limit  failcnt
207: kmemsize     641460 685388 33554432 67108864 0
  lockedpages      0      0      4      4      0
  privvmpages     11109  16227  16384  16384  436
  shmpages        960    976   1152   1152   2
  dummy           0      0      0      0      0
  numproc         13     15     60     60     0
  physpages       1198   1237   0 2147483647 0
  vmguarpages     0      0     1725 2147483647 0
  oomguarpages    1198   1237   1725 2147483647 0
  numtcpsock      3      3     10     10     0
  numflock        2      4     50    100     0
  numpty          2      2     10     10     0
  numsiginfo      0      2    256   256     0
  tcpsndbuf       6660   13320 1048576 1048576 0
  tcprcvbuf       0      2220 1048576 1048576 0
  othersockbuf    2220   6408   65536 102400 0
  dgramrcvbuf     0      1196   65536 102400 0
  numothersock    7      10     10     10     0
  dcachesize      52530  56135  99000  99000  0
  numfile         141    160    800    1000    0
  dummy           0      0      0      0      0
  dummy           0      0      0      0      0
  dummy           0      0      0      0      0
  numiptent       4      4     50     50     0

```

foobar:~# ps

```

  PID TTY          TIME CMD
 8017 pts/1    00:00:00 bash
 9488 pts/1    00:00:00 ps

```

foobar:~# dd if=/dev/zero of=/swapfile bs=1M count=32

32+0 records in

32+0 records out

33554432 bytes transferred in 0.562373 seconds (59665788 bytes/sec)

foobar:~# ps

-su: fork: Cannot allocate memory

## NOTE: at this point I logged out from an idle shell to free

## up some memory. Then at least I can investigate whats up.

foobar:~# ps

```

  PID TTY          TIME CMD

```

8017 pts/1 00:00:00 bash

9966 pts/1 00:00:00 ps

foobar:~# ps aux

```
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0  1584  520 ?        Ss   Apr15  0:00 ini
root    20131  0.0  0.0  1628  540 ?        Ss   Apr15  0:00 /sbin/syslogd
root    20139  0.0  0.1  3544  928 ?        Ss   Apr15  0:00 /usr/sbin/sshd
daemon  20142  0.0  0.0  1764  364 ?        Ss   Apr15  0:00 /usr/sbin/atd
root    20145  0.0  0.0  1820  640 ?        Ss   Apr15  0:00 /usr/sbin/cron
root     8002  0.0  0.1 14516 1784 ?        Ss   08:37  0:00 sshd: bb [priv]
bb       8005  0.0  0.1 14516 1372 ?        R    08:37  0:00 sshd: bb@pts/1
bb       8006  0.0  0.1  2620 1424 pts/1    Ss   08:37  0:00 -bash
root     8017  0.0  0.1  2640 1460 pts/1    S    08:37  0:00 -su
root    10124  0.0  0.0  2564  848 pts/1    R+   08:49  0:00 ps aux
```

foobar:~# ps alx

```
F UID  PID PPID PRI NI   VSZ  RSS WCHAN  STAT TTY      TIME COMMAND
4  0    1   0  16  0  1584  520 -   Ss   ?        0:00 ini
1  0 20131   1  16  0  1628  540 -   Ss   ?        0:00 /sbin/syslogd
5  0 20139   1  16  0  3544  928 -   Ss   ?        0:00 /usr/sbin/sshd
1  1 20142   1  16  0  1764  364 -   Ss   ?        0:00 /usr/sbin/atd
1  0 20145   1  16  0  1820  640 -   Ss   ?        0:00 /usr/sbin/cron
5  0 8002 20139  15  0 14516 1784 -   Ss   ?        0:00 sshd: bb [priv]
5 1000 8005 8002  17  0 14516 1372 -   R    ?        0:00 sshd: bb@pts/1
0 1000 8006 8005  15  0  2620 1424 wait Ss pts/1    0:00 -bash
4  0 8017 8006  16  0  2640 1460 -   R    pts/1    0:00 -su
4  0 10205 8017  16  0  2376  684 -   R+   pts/1    0:00 ps alx
```

foobar:~# cat /proc/user\_beancounters

Version: 2.5

uid resource	held	maxheld	barrier	limit	failcnt	
207: kmemsize	495267	685388	33554432	67108864		0
lockedpages	0	0	4	4	0	
privvmpages	14189	19309	16384	16384	615	
shmpages	320	976	1152	1152	2	
dummy	0	0	0	0	0	
numproc	10	15	60	60	0	
physpages	1013	1237	0	2147483647	0	
vmguarpages	0	0	1725	2147483647	0	
oomguarpages	1013	1237	1725	2147483647	0	
numtcpsock	2	3	10	10	0	
numflock	2	4	50	100	0	
numpty	1	2	10	10	0	
numsiginfo	0	2	256	256	0	
tcpsndbuf	4440	17760	1048576	1048576	0	
tcprcvbuf	0	2220	1048576	1048576	0	
othersockbuf	2220	6408	65536	102400	0	
dgramrcvbuf	0	1196	65536	102400	0	
numothersock	4	10	10	10	0	
dcachesize	48410	56135	99000	99000	0	

numfile	112	168	800	1000	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	4	4	50	50	0

foobar:~#

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