
Subject: Apache don't start Cannot allocate memory
Posted by [gaper](#) on Fri, 11 May 2007 19:26:25 GMT
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Hi guys first I apologize for my terrible English ... I have a server (HN) with two VE's, this VE's are going to run "trac", trac needs apache, mod_python and litesql, but I just can't start apache, /var/log/apache2/error.log sayd:

```
Fri May 11 13:48:09 2007] [notice] mod_python: using mutex_directory /tmp
[Fri May 11 13:48:09 2007] [notice] Apache/2.2.3 (Debian) mod_python/3.2.10 Pyth on/2.4.4
configured -- resuming normal operations
[Fri May 11 13:48:09 2007] [alert] (12)Cannot allocate memory: apr_thread_create : unable to
create worker thread
[Fri May 11 13:48:09 2007] [alert] (12)Cannot allocate memory: apr_thread_create : unable to
create worker thread
[Fri May 11 13:48:11 2007] [alert] No active workers found... Apache is exiting!
julius:~#
```

My enviroment its:

```
piso-7-48:~# vzlist
  VPSID   NPROC STATUS IP_ADDR   HOSTNAME
  101     7 running 192.168.7.201 julius
  102     5 running 192.168.7.202 dalton
piso-7-48:~#
```

I have 512mb of ram ... I tryed:

```
vzctl set 101 --vmguarpages 224M --save
vzctl set 101 --oomguarpages 224M --save
vzctl set 101 --privvmpages 100000 --save
```

But not working so I reloaded the old and default config:

```
vzctl set 101 --vmguarpages 6144:2147483647 --save
vzctl set 101 --oomguarpages 6144:2147483647 --save
vzctl set 101 --privvmpages 49152:53575 --save
```

With the default config I got this in /proc/user_beancounters:

```
piso-7-48:~# cat /proc/user_beancounters
Version: 2.5
  uid resource      held  maxheld  barrier  limit  failcnt
```

102: kmemsize	295987	953952	2752512	2936012	0
lockedpages	0	0	32	32	0
privvmpages	795	49416	49152	53575	2
shmpages	0	136	8192	8192	0
dummy	0	0	0	0	0
numproc	5	32	65	65	0
physpages	489	2689	0	2147483647	0
vmguarpages	0	0	6144	2147483647	0
oomguarpages	489	2689	6144	2147483647	0
numtcpsock	1	3	80	80	0
numflock	1	2	100	110	0
numpty	0	0	16	16	0
numsiginfo	0	4	256	256	0
tcpsndbuf	0	0	319488	524288	0
tcprecvbuf	0	0	319488	524288	0
othersockbuf	2232	2928	132096	336896	0
dgramrcvbuf	0	8376	132096	132096	0
numothersock	2	5	80	80	0
dcachesize	0	0	1048576	1097728	0
numfile	132	612	2048	2048	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	10	10	128	128	0
101: kmemsize	266605	911208	2752512	2936012	0
lockedpages	0	0	32	32	0
privvmpages	795	49060	49152	53575	2
shmpages	0	136	8192	8192	0
dummy	0	0	0	0	0
numproc	5	32	65	65	0
physpages	488	2558	0	2147483647	0
vmguarpages	0	0	6144	2147483647	0
oomguarpages	488	2558	6144	2147483647	0
numtcpsock	1	3	80	80	0
numflock	1	2	100	110	0
numpty	0	0	16	16	0
numsiginfo	0	4	256	256	0
tcpsndbuf	0	0	319488	524288	0
tcprecvbuf	0	0	319488	524288	0
othersockbuf	2232	2928	132096	336896	0
dgramrcvbuf	0	8376	132096	132096	0
numothersock	2	5	80	80	0
dcachesize	0	0	1048576	1097728	0
numfile	132	604	2048	2048	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
dummy	0	0	0	0	0
numiptent	10	10	128	128	0

```

0: kmemsize      2075423  2455127 2147483647 2147483647      0
  lockedpages    0        0 2147483647 2147483647      0
  privvmpages    3088     8076 2147483647 2147483647      0
  shmpages       655     671 2147483647 2147483647      0
  dummy          0        0 2147483647 2147483647      0
  numproc        42       58 2147483647 2147483647      0
  physpages      1508     1508 2147483647 2147483647      0
  vmguarpages    0        0 2147483647 2147483647      0
  oomguarpages   1508     1508 2147483647 2147483647      0
  numtcpsock     2        2 2147483647 2147483647      0
  numflock       1        6 2147483647 2147483647      0
  numpty         1        1 2147483647 2147483647      0
  numsiginfo     0        3 2147483647 2147483647      0
  tcpsndbuf      17856     0 2147483647 2147483647      0
  tcprcvbuf      32768     0 2147483647 2147483647      0
  othersockbuf   13392    18080 2147483647 2147483647      0
  dgramrcvbuf    0       8376 2147483647 2147483647      0
  numothersock   21       25 2147483647 2147483647      0
  dcachesize     0        0 2147483647 2147483647      0
  numfile        783     948 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

```

piso-7-48:~#

I will estimate your help. Tnks.

att: gaper

p.d: live net !!!

Subject: Re: Apache don't start Cannot allocate memory

Posted by [swindmill](#) on Sat, 12 May 2007 04:17:58 GMT

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The default Debian Apache2 install uses the worker MPM which seems to eat up memory at initialization.

I edited my /etc/apache2/apache2.conf to look like this:

...

```

<IfModule mpm_worker_module>
  #Default is 2

```

```
StartServers      1
#Default is 150
MaxClients        80
#Default is 25
MinSpareThreads   5
MaxSpareThreads   75
#Default is 25
ThreadsPerChild   5
MaxRequestsPerChild 0
</IfModule>
```

...

And apache2 starts up properly on a VE and uses MUCH less memory.

You can also install libapache2-mod-php5 and Debian will switch Apache2 to use the prefork MPM which needs less memory.

```
apt-get install lib-apache2-mod-php5
```

You can check which MPM apache2 is set to use by running `/usr/sbin/apache2 -l`

You'll see either prefork.c or worker.c? (I'm not currently using worker) in the output.
