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
      physspaces         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
      tcprcvbuf            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
      physspaces         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
      tcprcvbuf            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.
