
Subject: Problem with running apache2

Posted by [steffen.zieger](#) on Tue, 14 Feb 2006 14:21:42 GMT

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Hello,

If i'm starting apache2, it's running for about ten seconds and then gets killed.

The following message is printed to apache log

Quote:[Tue Feb 14 14:19:58 2006] [alert] (12)Cannot allocate memory: apr_thread_create: unable to create worker thread

Anybody has run into the same problem?

TIA,
Steffen

Subject: Re: Problem with running apache2

Posted by [devnu11](#) on Tue, 14 Feb 2006 16:13:54 GMT

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A real quick check of Everyone's Friend, Google, returned this.

Quote: apr_thread_create: unable to create worker thread

This is a tuning issue. The operating system failed a request by the web server to create another thread. The operating system can be tuned to allow more threads, or the web server can be tuned to create fewer threads per process so that it doesn't encounter this issue.

Things to check:

1. value of ThreadsPerChild in the worker MPM configuration in serverroot/conf/httpd.conf

It may be too high for current operating system limits on memory or processes or threads.

2. AIX: value of LDR_CNTRL variable in serverroot/bin/envvars file

This controls how much of the address space can be used for heap storage, and heap storage is the main requirement on AIX for being able to create a new thread.

This is the original URL: <http://publib.boulder.ibm.com/httserv/ihsdiag/errorlog.html>

Good luck

Subject: Re: Problem with running apache2

Posted by [steffen.zieger](#) on Tue, 14 Feb 2006 19:25:37 GMT

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umpf

Next time I will try googling first.

Thanks,
Steffen

Subject: Re: Problem with running apache2

Posted by [steffen.zieger](#) on Tue, 14 Feb 2006 20:25:23 GMT

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Hmm...Something is really wrong on my system.

If I'm starting apache2 set to max one client, it works. If I double this value, the error is printed out.

Is there a limit on threads?

Somebody has a running apache2 under debian?

TIA,
Steffen

Subject: Re: Problem with running apache2

Posted by [dev](#) on Thu, 16 Feb 2006 11:00:32 GMT

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Steffen, there is a single limit for processes/threads in /proc/user_beancounters calles numproc. You can check failcnt columnt in this file to make sure that you don't hit the limit. I really doubt you do hit it.

What can help to resolve this issue is if you made a strace of apache, e.g.

```
# strace -f -o output_file <cmd to start apache server'
```

Subject: Re: Problem with running apache2

Posted by [steffen.zieger](#) on Thu, 16 Feb 2006 11:30:22 GMT

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I've got Gentoo installed in a VPS. Apache is working in this install.

The difference between Gentoo and Debian/Suse: Apache is using the worker-mpm (threaded). Under Gentoo it's using prefork-mpm.

I'm going to compile Apache under Gentoo with the worker-mpm.

Debian VPS output of cat /proc/user_beancounters:

Version: 2.5

uid resource	held	maxheld	barrier	limit	failcnt	
101: kmemsize	562242	934175	26624384	26624384		0
lockedpages	0	0	182	182	0	
privvmpages	1490	14632	15930	17523		1
shmpages	0	336	1593	1593	0	
dummy	0	0	0	0	0	
numproc	10	20	400	400	0	
physpages	1050	5335	0	2147483647		0
vmguarpages	0	0	5310	2147483647		0
oomguarpages	1050	5335	5310	2147483647		0
numtcpsock	2	6	950	950	0	
numflock	3	9	608	668	0	
numpty	1	1	95	95	0	
numsiginfo	0	7	512	512	0	
tcpsndbuf	0	11472	1268947	4153147		0
tcprcvbuf	0	86736	1268947	4153147		0
othersockbuf	112560	124128	634473	3518673		0
dgramrcvbuf	0	2224	634473	634473		0
numothersock	72	82	950	950	0	
dcachesize	137529	173265	6144384	6144384		0
numfile	199	305	16001	16001	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
numiptent	10	10	200	200	0	

Output of Gentoo VPS:

Version: 2.5

uid resource	held	maxheld	barrier	limit	failcnt	
102: kmemsize	255909	1223451	2752512	2936012		0
lockedpages	0	0	32	32	0	
privvmpages	716	19939	49152	53575		0
shmpages	0	14	8192	8192	0	
dummy	0	0	0	0	0	
numproc	5	29	65	65	0	
physpages	546	14084	0	2147483647		0
vmguarpages	0	0	6144	2147483647		0
oomguarpages	546	14084	6144	2147483647		0
numtcpsock	0	5	80	80	0	
numflock	0	3	100	110	0	
numpty	1	1	16	16	0	
numsiginfo	0	10	256	256	0	
tcpsndbuf	0	113424	319488	524288		0
tcprcvbuf	0	220176	319488	524288		0

othersockbuf	2224	6672	132096	336896	0
dgramrcvbuf	0	2224	132096	132096	0
numothersock	1	5	80	80	0
dcachesize	56286	122130	1048576	1097728	0
numfile	32	207	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

Subject: Re: Problem with running apache2
Posted by [dev](#) on Thu, 16 Feb 2006 12:02:16 GMT
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you have much lower "privvmpages" limits in your Debian VPS and you hit this limit.
try to increase the limit to the same value as in Gentoo via:
vzctl set 101 --privvmpages 49152:53575

Subject: Re: Problem with running apache2
Posted by [steffen.zieger](#) on Thu, 16 Feb 2006 12:07:24 GMT
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Thanks. Must have overseen this.
Now everything is working.

HAND,
Steffen

PS: Have you had the time to take a look at the full no-module-patch? It's working probably on two systems.

Subject: Re: Problem with running apache2
Posted by [dev](#) on Thu, 16 Feb 2006 12:14:55 GMT
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P.S.
No, I haven't yet
Glad to hear that it works fine!
