Subject: apache2 stall in CLOSE_WAIT state
Posted by Yoann Moulin on Mon, 23 Jun 2008 10:13:04 GMT
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Hi,

I have a VE in production for a couple of months. HN and VE are running Ubuntu Dapper 6.06.2 LTS

> vz01:~$ uname -a
> Linux vz01 2.6.18-028stab053 #1 SMP Tue May 27 15:40:07 CEST 2008 x86_64 GNU/Linux
> vz01:~$ vzctl --version
> vzctl version 3.0.22

This VE is only used for http(s) services. Everything have worked well until this week end where we got apache process stalled on CLOSE_WAIT state and no more process are available to deliver pages

We get this in logs :

> server reached MaxClients setting, consider raising the MaxClients setting

If I set MaxClients to a higher value, that is just delaying the moment where apache fall in a stalled state.

I gave a look into user beancounter but no hard limit or barrier limit was reached when it occurred.

since it's a production server I can't "play" too much with. I don't know if it's a fully openvz related but I restarted the server on a physical blade and the problem has been fixed.

For now, the server is running on a physical blade, but I can reboot it as a VE server to do some test.

The server is behind a reverse proxy cluster (lighthttp) but nothing has been change on those servers for a couple of weeks.

Note : In our architecture, each physical or virtual server is format after each reboot and populated with a clear boot image. After that, we are using cfengine to apply the right configuration function of the name of the server. I can boot a server on a physical or a virtual server with exactly the same configuration even if specific openvz configuration (such as not start ntp server for example).

> ii apache2 2.0.55-4ubuntu2.3 next generation, scalable, extendable web se
> ii apache2-common 2.0.55-4ubuntu2.3 next generation, scalable, extendable web se

> ii apache2-mpm-prefork   2.0.55-4ubuntu2.3   traditional model for Apache2
> ii apache2-utils   2.0.55-4ubuntu2.3   utility programs for webservers
> ii libapache2-mod-php5   5.1.2-1ubuntu3.10   server-side, HTML-embedded scripting
languag
> ii libc6   2.3.6-0ubuntu20.5   GNU C Library: Shared libraries and Timezone
> ii php5-cgi   5.1.2-1ubuntu3.10   server-side, HTML-embedded scripting languag
> ii php5-common   5.1.2-1ubuntu3.10   Common files for packages built from the php
> ii php5-mcrypt   5.1.2-1   MCrypt module for php5
> ii php5-mysql   5.1.2-1ubuntu3.10   MySQL module for php5
> ii php5-mysqli   5.1.2-1ubuntu3.10   MySQL Improved module for php5

Thanks for you help.

Regards,

Yoann

Subject: Re: apache2 stall in CLOSE_WAIT state
Posted by gblond on Tue, 24 Jun 2008 08:34:59 GMT
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On 23 June 2008 14:13:04 Yoann Moulin wrote:
> Hi,
>
> I have a VE in production for a couple of months. HN and VE are running
> Ubuntu Dapper 6.06.2 LTS
>
> > vz01:~$ uname -a
> > Linux vz01 2.6.18-028stab053 #1 SMP Tue May 27 15:40:07 CEST 2008 x86_64
> > GNU/Linux vz01:~$ vzctl --version
> > vzctl version 3.0.22
>
> This VE is only used for http(s) services. Everything have worked well
> until this week end where we got apache process stalled on CLOSE_WAIT
> state and no more process are available to deliver pages
>
> We get this in logs :
> > server reached MaxClients setting, consider raising the MaxClients
> > setting

Any suspicious messages in dmesg? Please show output of the commands (in
apache's CT):

  cat /proc/net/netstat
  cat /proc/user_beancounters
  netstat --tcp -nop

>
> If I set MaxClients to a higher value, that is just delaying the moment
> where apache fall in a stalled state.

Maybe these articles can help you:

http://www.usenet-forums.com/linux-web-servers/5368-need-help-server-reached-maxclients-setting.html
https://issues.apache.org/bugzilla/show_bug.cgi?id=41252

>
> I gave a look into user beancounter but no hard limit or barrier limit
> was reached when it occurred.
>
> since it's a production server I can't "play" too much with. I don't
> know if it's a fully openvz related but I restarted the server on a
> physical blade and the problem has been fixed.
>
> For now, the server is running on a physical blade, but I can reboot it
> as a VE server to do some test.
>
> The server is behind a reverse proxy cluster (lighthttp) but nothing has
> been change on those servers for a couple of weeks.
>
> Note : In our architecture, each physical or virtual server is format
> after each reboot and populated with a clear boot image. After that, we
> are using cfengine to apply the right configuration function of the name
> of the server. I can boot a server on a physical or a virtual server
> with exactly the same configuration even if specific openvz
> configuration (such as not start ntp server for example).
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> > ii apache2   2.0.55-4ubuntu2.3   next generation,
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> > apache2-mpm-prefork   2.0.55-4ubuntu2.3   traditional model for
> > Apache2 ii apache2-utils   2.0.55-4ubuntu2.3   utility
> > programs for webservers ii libapache2-mod-php5   5.1.2-1ubuntu3.10
> >   server-side, HTML-embedded scripting languag ii libc6
> >   2.3.6-0ubuntu20.5   GNU C Library: Shared libraries and
> > Timezone ii php5-cgi   5.1.2-1ubuntu3.10
> > server-side, HTML-embedded scripting languag ii php5-common
> > 5.1.2-1ubuntu3.10   Common files for packages built from the php
> > ii php5-mcrypt   5.1.2-1   MCrypt module for
> > php5 ii php5-mysql   5.1.2-1ubuntu3.10   MySQL module
> > for php5 ii php5-mysqli   5.1.2-1ubuntu3.10   MySQL
> > Improved module for php5
>
> Thanks for you help.

>
> Regards,
>
> Yoann
--
Thank,
Vitaliy Gusev

Subject: Re: apache2 stall in CLOSE_WAIT state
Posted by Yoann Moulin on Wed, 25 Jun 2008 09:34:11 GMT
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Hi,

>> I have a VE in production for a couple of months. HN and VE are running
>> Ubuntu Dapper 6.06.2 LTS
>>
>>> vz01:~$ uname -a
>>> Linux vz01 2.6.18-028stab053 #1 SMP Tue May 27 15:40:07 CEST 2008 x86_64
>>> GNU/Linux vz01:~$ vzctl --version
>>> vzctl version 3.0.22
>> This VE is only used for http(s) services. Everything have worked well
>> until this week end where we got apache process stalled on CLOSE_WAIT
>> state and no more process are available to deliver pages
>>
>> We get this in logs :
>>> server reached MaxClients setting, consider raising the MaxClients
>>> setting
>
> Any suspicious messages in dmesg? Please show output of the commands (in
> apache's CT):
>
> cat /proc/net/netstat
> cat /proc/user_beancounters
> netstat --tcp -nop

I have restarted the server as a VE, but I'm not able to reproduce that
issue... if it occures again, I will get those informations

>> If I set MaxClients to a higher value, that is just delaying the moment
>> where apache fall in a stalled state.
>
> Maybe these articles can help you:
>
>
http://www.usenet-forums.com/linux-web-servers/5368-need-help-server-reached-maxclients-setting.html

> https://issues.apache.org/bugzilla/show_bug.cgi?id=41252

thanks

Regards,

Yoann Moulin
