

## Wt - Support #4152

### DDos question

06/09/2015 11:56 AM - Drus Kor

<b>Status:</b>	Feedback	<b>Start date:</b>	06/09/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Drus Kor	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	3.3.4		
<b>Description</b>			
I'm try to test site by apache2-utils			
ab -n 100000 -c 1000 http://www.mysite.com /			
After some time the site no longer accept connections.			
Stop tests.			
Expected completion of open sessions( 600 )			
But, the site will not accept connections ever.			
log:			
[2015-Jun-09 08:26:42.129221] 1448 [/ 3J0FefXXhWw71HwY] [info] "WEnvironment: UserAgent: ApacheBench/2.3"			
[2015-Jun-09 08:26:42.331433] 1448 - [info] "Wt: session created (#sessions = 100)"			
[2015-Jun-09 08:26:42.331775] 1448 [/ rRScWzeFDmsgZRPN] [info] "WEnvironment: UserAgent: ApacheBench/2.3"			
[2015-Jun-09 08:26:42.332835] 1448 [/ PJ8ONPDpuITGTV1W] [info] "WebController: timeout: expiring"			
[2015-Jun-09 08:26:42.332919] 1448 [/ PJ8ONPDpuITGTV1W] [info] "Wt: session destroyed (#sessions = 99)"			
[2015-Jun-09 08:26:42.346094] 1448 - [info] "Wt: session created (#sessions = 100)"			
[2015-Jun-09 08:26:42.346430] 1448 [/ 907BclyabnKPP27g] [info] "WEnvironment: UserAgent: ApacheBench/2.3" << FREEZE			
[2015-Jun-09 09:05:25.904934] 1448 - [info] "WebController: shutdown: stopping sessions." << kill process from cmd			
[2015-Jun-09 09:05:25.906080] 1448 [/ 0QCiyHfUNPnyMTzy] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.906252] 1448 [/ 0mOmMKTiGdJUzC7A] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.906372] 1448 [/ 0vSfjvhzj07Xqv7s] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.906502] 1448 [/ 1tMlwhwid22syQ3M] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.906626] 1448 [/ 2Rh56rEMwJ1Ads1] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.906747] 1448 [/ 2gqZKW84sC4el0HR] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.906849] 1448 [/ 3J0FefXXhWw71HwY] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.907340] 1448 [/ 41PCwPyY9m7vt5D] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.907456] 1448 [/ 4jxBztoI5il6HzFK] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.907566] 1448 [/ 4q6KuhHxZeivc8Sv] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.907675] 1448 [/ 50HJ22XwqMic9nGX] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.907791] 1448 [/ 5YJA4DtHE2hDDPk3] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.907948] 1448 [/ 6q7ubr20hhsWNsO9] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908049] 1448 [/ 7BJaY9xG9yQUevlK] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908182] 1448 [/ 7Bu7cwa28nMOWTYX] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908311] 1448 [/ 7GS1awmEIlmPX4Hr] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908437] 1448 [/ 7WewKQOZI4lkpjBH] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908568] 1448 [/ 7frdXNlPdCGLgmAR] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908689] 1448 [/ 8GhtYmy50yaMzpLs] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908776] 1448 [/ 8K3tkpxojit4toQr] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908885] 1448 [/ 907BclyabnKPP27g] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.908996] 1448 [/ A8CaoaG9kSwoVkl2L] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.909091] 1448 [/ AEhMSj5DRI6OVcVh] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.909169] 1448 [/ B9XPqtgyq0IBDLgU] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.909253] 1448 [/ Bi57uSh6Kgiho70I] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.909372] 1448 [/ C2EzS3glrQc2A3ij] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.909475] 1448 [/ C86N8oV1HOVetkAx] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.909553] 1448 [/ D8vPazh3kEyy9wvp] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.909627] 1448 [/ DSTj27qRRrneos99] [info] "Wt: session destroyed (#sessions = 0)"			
[2015-Jun-09 09:05:25.909725] 1448 [/ DZlInZ2zbyRcmgpt] [info] "Wt: session destroyed (#sessions = 0)"			

[2015-Jun-09 09:05:25.909800] 1448 [/ Dni6h9t1LfPQG32y] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.909873] 1448 [/ GH1bvDu0CNRjQt2N] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.909946] 1448 [/ Grydqwko759T7hN8] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910019] 1448 [/ HzvIvMq4SOT4SPLJ] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910093] 1448 [/ l6Uggx6TCLmT7kDO] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910166] 1448 [/ lvYyuyCzu0QRlRhY] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910239] 1448 [/ lwl9WsMCqTph5seY] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910312] 1448 [/ JKYikRRKn5XPZVVu] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910385] 1448 [/ JmrSkG08Tqyb8Rrp] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910498] 1448 [/ K7uUuEuNsL718qKE] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910622] 1448 [/ KwLRYQFUTfRdkEa9] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910769] 1448 [/ M0pzz2rLMoITD3fk] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.910851] 1448 [/ ML7RkCDH9rXETxeZ] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911095] 1448 [/ MhIamHkQ224eHdzW] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911206] 1448 [/ Npbt3cJYFc9eR2OP] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911306] 1448 [/ OvayStoh5nzhcPG] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911381] 1448 [/ PUIE6IDCEfGKkrR4] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911454] 1448 [/ PYSeZYDhOAHltVha] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911535] 1448 [/ QoOa4AgSYOe4weC9] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911651] 1448 [/ R8LYOwnYX5WhXasX] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911765] 1448 [/ RaArYxDuKPcnnjOm] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911868] 1448 [/ RdCHs2IEO0cyVTrK] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.911971] 1448 [/ SsAOQIWq9LPkEr8c] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.912073] 1448 [/ TReq18nyLj0f8Wpl] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.912175] 1448 [/ U28yrKpMjbsw9gy5] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.912279] 1448 [/ VHCSk1iHQotlW33z] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.912378] 1448 [/ Ww9nQmP9jGEmbKv1] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.912480] 1448 [/ YFHyZbA0VY3k0BEa] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.913681] 1448 [/ ZSkERANhe2M0kP6c] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.914480] 1448 [/ ZaZLk1EJj1eGkpLp] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.914571] 1448 [/ Zx3YnesfHZA4ev3q] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.914647] 1448 [/ bQMhWkNULsDV67uH] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.914721] 1448 [/ bpt2SMImKr9kQ0BE] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.914796] 1448 [/ cAWQrtHfMmqSOWcI] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.915578] 1448 [/ cQVYaoTj0LjrhOr] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.915711] 1448 [/ cijNw2kNUdzQqDb1] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.915832] 1448 [/ dM4d2M2AYvq82Q4o] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.915962] 1448 [/ dlqEUQZCdWge9uPU] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.916117] 1448 [/ fpfuAq6oqq3dAXi6] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.916236] 1448 [/ gbY7sabUC0gw6fyz] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.916358] 1448 [/ hHSuUwfUGwqmdfOa] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.916491] 1448 [/ iNJYSj4K0b6EYk9C] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.916613] 1448 [/ jqAdbodf9qke4Sc0] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.916747] 1448 [/ jtKQF45ghCAzswJK] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.916873] 1448 [/ juPp2ZgRmYxEGNsm] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.917019] 1448 [/ k4aRhJ40Mqf5V26] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.917147] 1448 [/ lSwB7llnYxR514QV] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.917272] 1448 [/ nMcUlcljeOERB7xF] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.917400] 1448 [/ oE84S367HMZsMexQ] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.917541] 1448 [/ oFbCG3X8hWz93pHI] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.917677] 1448 [/ r6GvVGJsasHV0LQ6] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.917791] 1448 [/ rGVRymkO60gZpb6Q] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.917908] 1448 [/ rRScWzeFDmsgZRPN] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.918018] 1448 [/ rUck8ATzpFMoilrX] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.918126] 1448 [/ rq7mO9vBIBOBMXgw] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.918977] 1448 [/ sbHj0nBRod0j5OtO] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.919076] 1448 [/ sgR5YFnfeltv5JeL] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.919306] 1448 [/ shCJMtmIVph2lbeP] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.919395] 1448 [/ tHWgug965GPXUvxh] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.919470] 1448 [/ tIGaVDAza1pn5IUZ] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.919721] 1448 [/ tnCvWlxTbr1Zc5az] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.919808] 1448 [/ uEvZLhDG8ZwdaoqY] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.919883] 1448 [/ vdbggLwvRbXpXQGJ] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.919956] 1448 [/ w7unLLjkeH7P1Jg9] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.920052] 1448 [/ wJ3iEplXO6FZrJfo] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.920158] 1448 [/ wUsvPBjBHmaA1bwE] [info] "Wt: session destroyed (#sessions = 0)"  
[2015-Jun-09 09:05:25.920236] 1448 [/ wYRyhmhiUe4qWN4y] [info] "Wt: session destroyed (#sessions = 0)"

```
[2015-Jun-09 09:05:25.920310] 1448 [/ x420mllR4knz3Aft] [info] "Wt: session destroyed (#sessions = 0)"
[2015-Jun-09 09:05:25.920383] 1448 [/ xBnmTWfxAISiKVyf] [info] "Wt: session destroyed (#sessions = 0)"
[2015-Jun-09 09:05:25.920457] 1448 [/ y61d4K99vNdHjzyH] [info] "Wt: session destroyed (#sessions = 0)"
[2015-Jun-09 09:05:25.920533] 1448 - [info] "WServer/wthttp: Shutdown: stopping web server." <<< FREEZE AGAIN
<< kill -9
```

## History

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### #1 - 06/09/2015 01:44 PM - Koen Deforche

- Status changed from New to InProgress

- Assignee set to Benoit Daccache

### #2 - 06/09/2015 03:04 PM - Drus Kor

This situation occurs only when using SSL Connect.

I can not recreate it in the normal http

### #3 - 06/09/2015 04:40 PM - Benoit Daccache

Hey Drus,

Can you give me more information about the configuration of the server ?

Thank you,

Benoit

### #4 - 06/09/2015 05:11 PM - Drus Kor

Perhaps the problem is not Wt.

Very strange, but it falls only if the server is running from this script:

@

```
#!/usr/bin/expect -f
```

```
spawn ./app_web ---docroot ./media ---https-address 0.0.0.0 ---https-port 8080 ---ssl-certificate ssl.crt ---ssl-private-key ssl.key ---ssl-tmp-dh dh.pem
```

```
expect "Enter PEM pass phrase:"
```

```
send "some_pass\r"
```

```
wait
```

@

But if you run it from the console, the application works well.

yet I do not understand how it is connected.

I tested by 4 servers( ubuntu 14.04 server 64 )

From 1~4 cpu

From 1~4 Gb Mem.

the same everywhere.

The problem is that I do not know the way how to convey PEM-key to application( yet I did not look the source code ).

### #5 - 06/09/2015 05:32 PM - Drus Kor

```
openssl rsa -in privateKey.pem -out newPrivateKey.pem
```

Clear key =)

Need add to doc =)

### #6 - 06/09/2015 05:51 PM - Wim Dumon

Also: WServer::setSslPasswordCallback().

Wim.

**#7 - 06/10/2015 09:47 AM - Benoit Daccache**

- Status changed from *InProgress* to *Resolved*

**#8 - 06/10/2015 03:45 PM - Drus Kor**

thx!

i get "A" rating on [ssllabs.com](https://ssllabs.com)

But get 1 warning "TLS Renegotiation and Denial of Service Attacks".

Need add 2 rows to code:

@

```
if (config_.sslClientVerification() != "none") {
    ssl_context_.set_verify_mode(asio::ssl::context::verify_none);
} else if (config_.sslClientVerification() == "once") {

    ssl_context_.set_verify_mode(asio::ssl::context::verify_client_once);

} else if (config_.sslClientVerification() == "optional") {

    ssl_context_.set_verify_mode(asio::ssl::context::verify_peer);

    ssl_context*.load_verify_file(config*.sslCaCertificates());

} else {

    // assume 'required'

    ssl_context_.set_verify_mode(asio::ssl::context::verify_peer |
        asio::ssl::context::verify_fail_if_no_peer_cert);

    ssl_context*.load_verify_file(config*.sslCaCertificates());

}
```

@

I have not tested it yet

**#9 - 06/10/2015 03:52 PM - Benoit Daccache**

- Status changed from *Resolved* to *InProgress*

**#10 - 06/11/2015 09:51 AM - Benoit Daccache**

- Status changed from *InProgress* to *Resolved*

**#11 - 06/30/2015 11:24 AM - Drus Kor**

- File *main.cpp* added

- File *run.log* added

i have a new info about dos =)

for test i use [loadimpact.com](https://loadimpact.com)

and in this simple app i had error "magick/blob.c:4293: WriteBlob: Assertion `image~>blob~>type != UndefinedStream' failed."

not sure. it may GraphicsMagick error only.

thx =)

**#12 - 07/01/2015 09:33 AM - Wim Dumon**

This may be related to the fact that Wt uses the GM API from multiple threads, but I couldn't find a lot of information on the subject in the GM

documentation, other than that multiple threads are supported (it seems like proper locking is done inside GM). Could you check if valgrind gives you any sensible information? At this moment, this looks more like a GM error than a Wt error to me...

BR,

Wim.

#### #13 - 07/01/2015 09:41 AM - Drus Kor

Yes, I do

#### #14 - 07/01/2015 12:31 PM - Drus Kor

```
==16188== 131,091 bytes in 1 blocks are definitely lost in loss record 1,701 of 1,705
==16188== at 0x4C2CE8E: realloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==16188== by 0x972D439: MagickRealloc (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x96ACECA: WriteBlob (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x97A892D: ??? (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0xBCC50A8: ??? (in /lib/x86_64-linux-gnu/libpng12.so.0.50.0)
==16188== by 0xBCCB234: png_write_info_before_PLTE (in /lib/x86_64-linux-gnu/libpng12.so.0.50.0)
==16188== by 0xBCCB49C: png_write_info (in /lib/x86_64-linux-gnu/libpng12.so.0.50.0)
==16188== by 0x97AE024: ??? (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x97B095A: ??? (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x96EC4F8: WriteImage (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x96AB767: ImageToBlob (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x67CBD58: Wt::WRasterImage::handleRequest(Wt::Http::Request const&, Wt::Http::Response&) (WRasterImage-gm.C:1008)
==16188==
==16188== 213,408 bytes in 26 blocks are still reachable in loss record 1,702 of 1,705
==16188== at 0x4C2B0E0: operator new(unsigned long) (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==16188== by 0x74B9FE9: __gnu_cxx::new_allocator<std::_List_node<boost::array<char, 8192ul> > >::allocate(unsigned long, void const*)
(new_allocator.h:104)
==16188== by 0x74B8FCD: std::_List_base<boost::array<char, 8192ul>, std::allocator<boost::array<char, 8192ul> > >::_M_get_node()
(stl_list.h:334)
==16188== by 0x74B78D4: std::list<boost::array<char, 8192ul>, std::allocator<boost::array<char, 8192ul> > >::_M_create_node(boost::array<char,
8192ul> const&) (stl_list.h:484)
==16188== by 0x74B4F78: std::list<boost::array<char, 8192ul>, std::allocator<boost::array<char, 8192ul> > >::_M_insert(std::_List_iterator<boost::array<char, 8192ul> >, boost::array<char, 8192ul> const&) (stl_list.h:1553)
==16188== by 0x74B1F85: std::list<boost::array<char, 8192ul>, std::allocator<boost::array<char, 8192ul> > >::push_back(boost::array<char,
8192ul> const&) (stl_list.h:1016)
==16188== by 0x74A8B4E: http::server::Connection::start() (Connection.C:89)
==16188== by 0x74BDD45: http::server::ConnectionManager::start(boost::shared_ptr<http::server::Connection>) (ConnectionManager.C:42)
==16188== by 0x74EC309: http::server::Server::handleTcpAccept(boost::system::error_code const&) (Server.C:366)
==16188== by 0x74FDBC1: boost::_mfi::mf1<void, http::server::Server, boost::system::error_code const&>::operator()(http::server::Server*,
boost::system::error_code const&) const (mem_fn_template.hpp:165)
==16188== by 0x74FDB35: void boost::_bi::list2<boost::_bi::value<http::server::Server*>, boost::arg<1> (*)>::operator()<boost::_mfi::mf1<void,
http::server::Server, boost::system::error_code const&>, boost::_bi::list1<boost::system::error_code const&> >(boost::_bi::type<void>,
boost::_mfi::mf1<void, http::server::Server, boost::system::error_code const&>&, boost::_bi::list1<boost::system::error_code const&>&, int)
(bind.hpp:313)
==16188== by 0x74FDAC5: void boost::_bi::bind_t<void, boost::_mfi::mf1<void, http::server::Server, boost::system::error_code const&>,
boost::_bi::list2<boost::_bi::value<http::server::Server*>, boost::arg<1> (*)> >::operator()<boost::system::error_code>(boost::system::error_code
const&) (bind_template.hpp:47)
==16188==
==16188== 548,160 bytes in 8 blocks are still reachable in loss record 1,703 of 1,705
==16188== at 0x4C2B0E0: operator new(unsigned long) (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==16188== by 0x74E29DC: http::server::RequestHandler::handleRequest(http::server::Request&, boost::shared_ptr<http::server::Reply>&,
boost::shared_ptr<http::server::Reply>&, boost::shared_ptr<http::server::Reply>&) (RequestHandler.C:184)
==16188== by 0x74A958A: http::server::Connection::handleReadRequest0() (Connection.C:200)
==16188== by 0x74A9CA4: http::server::Connection::handleReadRequest(boost::system::error_code const&, unsigned long) (Connection.C:244)
==16188== by 0x753A298: void boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned
long>::call<boost::shared_ptr<http::server::TcpConnection>, boost::system::error_code const, unsigned
long>(boost::shared_ptr<http::server::TcpConnection>&, void const*, boost::system::error_code const&, unsigned long&) const
(mem_fn_template.hpp:271)
==16188== by 0x753A20E: void boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned
long>::operator()<boost::shared_ptr<http::server::TcpConnection> >(boost::shared_ptr<http::server::TcpConnection>&, boost::system::error_code
const&, unsigned long) const (mem_fn_template.hpp:286)
==16188== by 0x753A187: void boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)>,
boost::arg<2> (*)>::operator()<boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>,
boost::_bi::list2<boost::system::error_code const&, unsigned long const&> >(boost::_bi::type<void>, boost::_mfi::mf2<void, http::server::Connection,
boost::system::error_code const&, unsigned long>&, boost::_bi::list2<boost::system::error_code const&, unsigned long const&>&, int) (bind.hpp:392)
==16188== by 0x753A0F9: void boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&,
unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)>, boost::arg<2> (*)> >
>::operator()<boost::system::error_code, unsigned long>(boost::system::error_code const&, unsigned long const&) (bind_template.hpp:102)
==16188== by 0x753A0AA: boost::asio::detail::binder2<boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection,
boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >,
boost::arg<1> (*)>, boost::arg<2> (*)> >, boost::system::error_code, unsigned long>::operator()() (bind_handler.hpp:127)
```

```

==16188== by 0x753A04F: void boost::asio::asio_handler_invoke<boost::asio::detail::binder2<boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >, boost::system::error_code, unsigned long> >(boost::asio::detail::binder2<boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >, boost::system::error_code, unsigned long>, ...) (handler_invoke_hook.hpp:64)
==16188== by 0x7539F80: void boost::asio_handler_invoke_helpers::invoke<boost::asio::detail::binder2<boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >, boost::system::error_code, unsigned long>&, boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >&) (handler_invoke_helpers.hpp:37)
==16188== by 0x7539E1D: void boost::asio::detail::asio_handler_invoke<boost::asio::detail::binder2<boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >, boost::system::error_code, unsigned long>, boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >, boost::system::error_code, unsigned long>(boost::asio::detail::binder2<boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >, boost::system::error_code, unsigned long>, boost::asio::detail::binder2<boost::_bi::bind_t<void, boost::_mfi::mf2<void, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >, boost::system::error_code, unsigned long>, http::server::Connection, boost::system::error_code const&, unsigned long>, boost::_bi::list3<boost::_bi::value<boost::shared_ptr<http::server::TcpConnection> >, boost::arg<1> (*)(), boost::arg<2> (*)()> >, boost::system::error_code, unsigned long>*) (bind_handler.hpp:170)
==16188==
==16188== 1,984,000 bytes in 4 blocks are still reachable in loss record 1,704 of 1,705
==16188== at 0x4C2B800: operator new[](unsigned long) (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==16188== by 0x67C6BFB: Wt::WRasterImage::WRasterImage(std::string const&, Wt::WLength const&, Wt::WLength const&, Wt::WObject*) (WRasterImage-gm.C:145)
==16188== by 0x63C1E2C: Wt::WWidgetRasterPainter::createPaintDevice(bool) (WPaintedWidget.C:647)
==16188== by 0x63C1F0B: Wt::WWidgetRasterPainter::getPaintDevice(bool) (WPaintedWidget.C:658)
==16188== by 0x63BFC80: Wt::WPaintedWidget::createDomElement(Wt::WApplication*) (WPaintedWidget.C:325)
==16188== by 0x6519323: Wt::WWebWidget::createActualElement(Wt::WWidget*, Wt::WApplication*) (WWebWidget.C:2183)
==16188== by 0x653C29E: Wt::WWidget::createSDomElement(Wt::WApplication*) (WWidget.C:365)
==16188== by 0x6250727: Wt::WContainerWidget::createDomChildren(Wt::DomElement&, Wt::WApplication*) (WContainerWidget.C:730)
==16188== by 0x62501A1: Wt::WContainerWidget::createDomElement(Wt::WApplication*, bool) (WContainerWidget.C:663)
==16188== by 0x625012F: Wt::WContainerWidget::createDomElement(Wt::WApplication*) (WContainerWidget.C:651)
==16188== by 0x6519323: Wt::WWebWidget::createActualElement(Wt::WWidget*, Wt::WApplication*) (WWebWidget.C:2183)
==16188== by 0x653C29E: Wt::WWidget::createSDomElement(Wt::WApplication*) (WWidget.C:365)
==16188==
==16188== 2,480,000 bytes in 4 blocks are still reachable in loss record 1,705 of 1,705
==16188== at 0x4C2AB80: malloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==16188== by 0x9734D37: ??? (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x9738244: ModifyCache (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x9738A94: ??? (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x9738EE6: SetCacheViewPixels (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x96E9F84: ConstitutelImage (in /usr/lib/libGraphicsMagick.so.3.11.0)
==16188== by 0x67C6D21: Wt::WRasterImage::WRasterImage(std::string const&, Wt::WLength const&, Wt::WLength const&, Wt::WObject*) (WRasterImage-gm.C:154)
==16188== by 0x63C1E2C: Wt::WWidgetRasterPainter::createPaintDevice(bool) (WPaintedWidget.C:647)
==16188== by 0x63C1F0B: Wt::WWidgetRasterPainter::getPaintDevice(bool) (WPaintedWidget.C:658)
==16188== by 0x63BFC80: Wt::WPaintedWidget::createDomElement(Wt::WApplication*) (WPaintedWidget.C:325)
==16188== by 0x6519323: Wt::WWebWidget::createActualElement(Wt::WWidget*, Wt::WApplication*) (WWebWidget.C:2183)
==16188== by 0x653C29E: Wt::WWidget::createSDomElement(Wt::WApplication*) (WWidget.C:365)
==16188==
==16188== LEAK SUMMARY:
==16188== definitely lost: 131,091 bytes in 1 blocks
==16188== indirectly lost: 0 bytes in 0 blocks
==16188== possibly lost: 137,035 bytes in 2,348 blocks
==16188== still reachable: 6,407,236 bytes in 6,972 blocks
==16188== suppressed: 0 bytes in 0 blocks

```

Tested ob deian 8 ( gm 1.3.20? ) and ubuntu-server 14.04( gm 1.3.18 )

#15 - 07/02/2015 01:43 PM - Drus Kor

- File log\_1.txt added

test on gm-1.3.21

**#16 - 07/03/2015 07:23 AM - Drus Kor**

which query produces a line like

[2015-Jun-30 10:10:20.933952] 5135 [/MSaQ51NOblDNDK7] [info] "Wt: not serving this."

**#17 - 07/03/2015 07:53 AM - Koen Deforche**

- Status changed from Resolved to Feedback

That response is sent by Wt if there is a request for a resource from a session that does not exist (has died). Perhaps it should return a Not-Authorized response instead.

The whole thing starts to sound like a bug in GraphicsMagick: your load tester is (obviously) treated as a plain HTML agent, and thus WRasterImage is used to render a painted widget. This thus stress tests GraphicsMagick.

Regards,

koen

**#18 - 07/03/2015 01:20 PM - Drus Kor**

found this

[[[<https://sourceforge.net/p/graphicsmagick/bugs/165/>]]]

**#19 - 07/06/2015 10:37 AM - Koen Deforche**

- Assignee changed from Benoit Daccache to Drus Kor

Ah, so an upgrade of GM did not solve the problem?

**#20 - 07/06/2015 10:56 AM - Drus Kor**

Build wt on latest version from repository. It this problem too.

I did several tests ( more than 8 hours in total, 10 + threads on 4 cpus ) with ofstream && write(f). I can not repeat the mistake ...

at evening I'll check it with WRasterImage::handleRequest. May be it usage give this bug.

**#21 - 07/06/2015 11:14 AM - Drus Kor**

- File snapshot2.png added

- File snapshot3.png added

I have a project wt + qt (the same code, the use of the library is given by define) and BT draws different (in my case wrong). I have not yet figured out the reason. Perhaps we should start with this question.

background is different, others is identical.

**#22 - 07/24/2015 08:36 AM - Drus Kor**

- File thr1.png added

- File thr2.png added

am? down on this place

**#23 - 07/24/2015 11:39 AM - Drus Kor**

- File diff.png added

difference between rendering png ( left ) and svg ( right )

**#24 - 07/24/2015 11:46 AM - Drus Kor**

1) set setPreferredMethod( PngImage );

2) Open in browser

3) Copy image Url ( such as: <http://127.0.0.1:8080/?wtd=ol6O3fIGHH3t9QPY&request=resource&resource=or31lge&rand=439> )

4) Past in new tab;

6) refresh many times

7) error: magick/blob.c:4293: WriteBlob: Assertion `image~~blob~~>type != UndefinedStream' failed.

#### #25 - 07/24/2015 01:18 PM - Drus Kor

thread in which create WRasterImage, and thread, which call HandleReuest are differents. Adding mutex in each class function solve problem. But i didn't think what it is a right way.

#### Files

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main.cpp	4.58 KB	06/30/2015	Drus Kor
run.log	742 KB	06/30/2015	Drus Kor
log_1.txt	930 KB	07/02/2015	Drus Kor
snapshot2.png	14.4 KB	07/06/2015	Drus Kor
snapshot3.png	28.3 KB	07/06/2015	Drus Kor
thr1.png	142 KB	07/24/2015	Drus Kor
thr2.png	132 KB	07/24/2015	Drus Kor
diff.png	20 KB	07/24/2015	Drus Kor