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New issue

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CVE-2022-45474: Use-after-free in event_cb when drachtioserver receives a call #240

Closed

asarubbo opened this issue 8 days ago · 2 comments

asarubbo commented 8 days ago

Hello,

this is a follow-up after the private disclosure.

When drachtio-server receives a call, if you run it via a debugger (valgrind in this case), you will see a useafter-free that happens by default.

```
valgrind /usr/local/bin/drachtio --contact 'sip:PUBLIC_IP;transport=udp' --contact
'sip:PUBLIC_IP;transport=tcp' --address 0.0.0.0 --port 9022 --homer 127.0.0.1:9060 --homer-id 10
==12406== Memcheck, a memory error detector
==12406== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==12406== Using Valgrind-3.14.0 and LibVEX; rerun with -h for copyright info
==12406== Command: /usr/local/bin/drachtio --contact sip:PUBLIC_IP;transport=udp --contact
sip:PUBLIC_IP;transport=tcp --address 0.0.0.0 --port 9022 --homer 127.0.0.1:9060 --homer-id 10
==12406==
checking for blacklist in config
did not find blacklist at all
==12406== Warning: invalid file descriptor -1 in syscall close()
==12406== Thread 3:
==12406== Conditional jump or move depends on uninitialised value(s)
==12406==
             at 0x4838C65: strlen (in /usr/lib/x86_64-linux-gnu/valgrind/vgpreload_memcheck-amd64-
linux.so)
==12406==
             by 0x240146: drachtio::write cb(void*, unsigned long, unsigned long,
drachtio::RequestHandler::_ConnInfo*) (request-handler.cpp:344)
             by 0x4870733: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406==
             by 0x488348A: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488CAD2: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488E15C: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488E2C4: curl_multi_socket_action (in /usr/lib/x86_64-linux-
gnu/libcurl.so.4.5.0)
==12406==
             by 0x2409A6: drachtio::timer_cb(boost::system::error_code const&,
drachtio::RequestHandler::_GlobalInfo*) [clone .part.450] (request-handler.cpp:333)
==12406==
             by 0x24119F: timer_cb (error_code.hpp:315)
```

```
==12406==
             by 0x24119F: drachtio::multi timer cb(void*, long,
drachtio::RequestHandler:: GlobalInfo*) (request-handler.cpp:169)
             by 0x488A47B: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488BCOB: curl multi add handle (in /usr/lib/x86 64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406==
             by 0x24294C: drachtio::RequestHandler::startRequest(std::__cxx11::basic_string<char,
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, bool) (request-handler.cpp:538)
==12406==
==12406== Conditional jump or move depends on uninitialised value(s)
             at 0x4838B06: strncat (in /usr/lib/x86_64-linux-gnu/valgrind/vgpreload_memcheck-
==12406==
amd64-linux.so)
             by 0x24022D: drachtio::write_cb(void*, unsigned long, unsigned long,
==12406==
drachtio::RequestHandler::_ConnInfo*) (request-handler.cpp:351)
             by 0x4870733: ??? (in /usr/lib/x86 64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488348A: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406==
             by 0x488CAD2: ??? (in /usr/lib/x86 64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488E15C: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
             by 0x488E2C4: curl_multi_socket_action (in /usr/lib/x86_64-linux-
==12406==
gnu/libcurl.so.4.5.0)
             by 0x2409A6: drachtio::timer cb(boost::system::error code const&,
==12406==
drachtio::RequestHandler::_GlobalInfo*) [clone .part.450] (request-handler.cpp:333)
             by 0x24119F: timer_cb (error_code.hpp:315)
==12406==
             by 0x24119F: drachtio::multi timer cb(void*, long,
==12406==
drachtio::RequestHandler::_GlobalInfo*) (request-handler.cpp:169)
==12406==
             by 0x488A47B: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488BCOB: curl_multi_add_handle (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x24294C: drachtio::RequestHandler::startRequest(std::__cxx11::basic_string<char,
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char traits<char>, std::allocator<char> > const&, std::_cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char traits<char>, std::allocator<char> > const&, bool) (request-handler.cpp:538)
==12406==
==12406== Invalid read of size 4
             at 0x241585: drachtio::event_cb(drachtio::RequestHandler::_GlobalInfo*, int, int,
==12406==
boost::system::error_code const&, int*) (request-handler.cpp:280)
==12406==
             by 0x244C91: operator()<void (*)(drachtio::RequestHandler::_GlobalInfo*, int, int,
const boost::system::error_code&, int*), boost::_bi::rrlist2<const boost::system::error_code&,</pre>
long unsigned int const&> > (bind.hpp:510)
==12406==
             by 0x244C91: operator()<const boost::system::error code&, long unsigned int const&>
(bind.hpp:1297)
==12406==
             by 0x244C91: operator() (bind_handler.hpp:289)
             by 0x244C91:
==12406==
asio_handler_invoke<boost::asio::detail::binder2<boost::_bi::bind_t<void, void (*)</pre>
(drachtio::RequestHandler::_GlobalInfo*, int, int, const boost::system::error_code&, int*),
boost::_bi::list5<boost::_bi::value<drachtio::RequestHandler::_GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::arg<1>, boost::_bi::value<int*> > >,
boost::system::error_code, long unsigned int> > (handler_invoke_hook.hpp:88)
             by 0x244C91: invoke<boost::asio::detail::binder2<boost::_bi::bind_t<void, void (*)
(drachtio::RequestHandler::_GlobalInfo*, int, int, const boost::system::error_code&, int*),
boost::_bi::list5<boost::_bi::value<drachtio::RequestHandler::_GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::arg<1>, boost::_bi::value<int*> > >,
boost::system::error_code, long unsigned int>, boost::_bi::bind_t<void, void (*)
(drachtio::RequestHandler:: GlobalInfo*, int, int, const boost::system::error code&, int*),
boost::_bi::list5<boost::_bi::value<drachtio::RequestHandler::_GlobalInfo*>,
```

```
boost:: bi::value<int>, boost:: bi::value<int>, boost:: bi::value<int*> > >
(handler invoke helpers.hpp:54)
             by 0x244C91: complete<boost::asio::detail::binder2<boost::_bi::bind_t<void, void (*)
==12406==
(drachtio::RequestHandler:: GlobalInfo*, int, int, const boost::system::error code&, int*),
boost::_bi::list5<boost::_bi::value<drachtio::RequestHandler::_GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::arg<1>, boost::_bi::value<int*> > >,
boost::system::error_code, long unsigned int> > (handler_work.hpp:512)
             by 0x244C91: boost::asio::detail::reactive_null_buffers_op<boost::_bi::bind_t<void,
void (*)(drachtio::RequestHandler::_GlobalInfo*, int, int, boost::system::error_code const&,
int*), boost:: bi::list5<boost:: bi::value<drachtio::RequestHandler:: GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::arg<1>, boost::_bi::value<int*> > >,
boost::asio::any_io_executor>::do_complete(void*, boost::asio::detail::scheduler_operation*,
boost::system::error code const&, unsigned long) (reactive null buffers op.hpp:84)
             by 0x1C6DB6: complete (scheduler_operation.hpp:40)
==12406==
==12406==
             by 0x1C6DB6: do_complete (epoll_reactor.ipp:806)
             by 0x1C6DB6: boost::asio::detail::epoll reactor::descriptor state::do complete(void*,
==12406==
boost::asio::detail::scheduler_operation*, boost::system::error_code const&, unsigned long)
(epoll reactor.ipp:796)
             by 0x1C68CB: complete (scheduler operation.hpp:40)
==12406==
==12406==
             by 0x1C68CB: do_run_one (scheduler.ipp:492)
             by 0x1C68CB: boost::asio::detail::scheduler::run(boost::system::error code&)
==12406==
(scheduler.ipp:210)
==12406==
             by 0x240096: run (io_context.ipp:63)
             by 0x240096: drachtio::RequestHandler::threadFunc() (request-handler.cpp:448)
==12406==
            by 0x4D67B2E: ??? (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.25)
==12406==
             by 0x48EDFA2: start_thread (pthread_create.c:486)
==12406==
==12406==
             by 0x50C606E: clone (clone.S:95)
==12406== Address 0x73bfaa0 is 0 bytes inside a block of size 4 free'd
             at 0x48369AB: free (in /usr/lib/x86_64-linux-gnu/valgrind/vgpreload_memcheck-amd64-
==12406==
linux.so)
             by 0x24140C: remsock (request-handler.cpp:107)
==12406==
==12406==
             by 0x24140C: drachtio::sock_cb(void*, int, int, void*, void*) (request-
handler.cpp:86)
==12406==
             by 0x488AAC0: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
             by 0x488E179: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488E2C4: curl_multi_socket_action (in /usr/lib/x86_64-linux-
==12406==
gnu/libcurl.so.4.5.0)
==12406==
             by 0x2409A6: drachtio::timer_cb(boost::system::error_code const&,
drachtio::RequestHandler::_GlobalInfo*) [clone .part.450] (request-handler.cpp:333)
             by 0x24119F: timer_cb (error_code.hpp:315)
==12406==
==12406==
             by 0x24119F: drachtio::multi_timer_cb(void*, long,
drachtio::RequestHandler:: GlobalInfo*) (request-handler.cpp:169)
==12406==
             by 0x488A47B: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
             by 0x488E2DF: curl_multi_socket_action (in /usr/lib/x86_64-linux-
==12406==
gnu/libcurl.so.4.5.0)
             by 0x2409A6: drachtio::timer_cb(boost::system::error_code const&,
==12406==
drachtio::RequestHandler::_GlobalInfo*) [clone .part.450] (request-handler.cpp:333)
             by 0x24119F: timer_cb (error_code.hpp:315)
==12406==
==12406==
             by 0x24119F: drachtio::multi_timer_cb(void*, long,
drachtio::RequestHandler::_GlobalInfo*) (request-handler.cpp:169)
             by 0x488A47B: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406== Block was alloc'd at
             at 0x4837B65: calloc (in /usr/lib/x86_64-linux-gnu/valgrind/vgpreload_memcheck-amd64-
==12406==
linux.so)
             by 0x241423: addsock (request-handler.cpp:100)
==12406==
==12406==
             by 0x241423: drachtio::sock_cb(void*, int, int, void*, void*) (request-
```

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handler.cpp:90)
             by 0x488A9D0: ??? (in /usr/lib/x86 64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406==
             by 0x488E179: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
             by 0x488E2C4: curl multi socket action (in /usr/lib/x86 64-linux-
==12406==
gnu/libcurl.so.4.5.0)
             by 0x2409A6: drachtio::timer_cb(boost::system::error_code const&,
==12406==
drachtio::RequestHandler::_GlobalInfo*) [clone .part.450] (request-handler.cpp:333)
==12406==
             by 0x24119F: timer_cb (error_code.hpp:315)
==12406==
             by 0x24119F: drachtio::multi_timer_cb(void*, long,
drachtio::RequestHandler:: GlobalInfo*) (request-handler.cpp:169)
             by 0x488A47B: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406==
            by 0x488BC0B: curl multi add handle (in /usr/lib/x86 64-linux-gnu/libcurl.so.4.5.0)
             by 0x24294C: drachtio::RequestHandler::startRequest(std:: cxx11::basic string<char,
==12406==
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char traits<char>, std::allocator<char> > const&, std:: cxx11::basic string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, bool) (request-handler.cpp:538)
==12406==
             by 0x243665: invoke impl<void, void (drachtio::RequestHandler::*&)(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool),
drachtio::RequestHandler*&, std:: cxx11::basic string<char, std::char traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, bool&> (invoke.h:73)
             by 0x243665: __invoke<void (drachtio::RequestHandler::*&)(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool),
drachtio::RequestHandler*&, std::_cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, bool&> (invoke.h:95)
==12406== by 0x243665: __call<void, 0, 1, 2, 3, 4, 5> (functional:400)
             by 0x243665: operator()<> (functional:484)
==12406==
             by 0x243665: asio_handler_invoke<std::_Bind<void (drachtio::RequestHandler::*
==12406==
(drachtio::RequestHandler*, std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>,
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>, bool))(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool)> >
(handler_invoke_hook.hpp:88)
             by 0x243665: invoke<std:: Bind<void (drachtio::RequestHandler::*
(drachtio::RequestHandler*, std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>,
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>, bool))(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool)>,
std::_Bind<void (drachtio::RequestHandler::*(drachtio::RequestHandler*,</pre>
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>,
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>, bool))(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool)> >
(handler_invoke_helpers.hpp:54)
             by 0x243665: complete<std::_Bind<void (drachtio::RequestHandler::*
(drachtio::RequestHandler*, std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>,
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>, bool))(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
```

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std:: cxx11::basic string<char>&, const std:: cxx11::basic string<char>&, bool)> >
(handler work.hpp:512)
             by 0x243665: boost::asio::detail::completion_handler<std::_Bind<void
==12406==
(drachtio::RequestHandler::*(drachtio::RequestHandler*, std:: cxx11::basic string<char,</pre>
std::char_traits<char>, std::allocator<char> >, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> >, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> >, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> >, bool))(std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char traits<char>, std::allocator<char> > const&, std:: cxx11::basic string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char traits<char>, std::allocator<char> > const&, bool)>,
boost::asio::io context::basic executor type<std::allocator<void>, Oul> >::do complete(void*,
boost::asio::detail::scheduler_operation*, boost::system::error_code const&, unsigned long)
(completion_handler.hpp:74)
             by 0x1C68CB: complete (scheduler operation.hpp:40)
==12406==
==12406==
             by 0x1C68CB: do_run_one (scheduler.ipp:492)
==12406==
             by 0x1C68CB: boost::asio::detail::scheduler::run(boost::system::error code&)
(scheduler.ipp:210)
==12406==
==12406== Invalid read of size 4
==12406==
             at 0x241651: drachtio::event cb(drachtio::RequestHandler:: GlobalInfo*, int, int,
boost::system::error_code const&, int*) (request-handler.cpp:297)
             by 0x244C91: operator()<void (*)(drachtio::RequestHandler:: GlobalInfo*, int, int,
==12406==
const boost::system::error_code&, int*), boost::_bi::rrlist2<const boost::system::error_code&,</pre>
long unsigned int const&> > (bind.hpp:510)
==12406==
             by 0x244C91: operator()<const boost::system::error code&, long unsigned int const&>
(bind.hpp:1297)
==12406==
            by 0x244C91: operator() (bind_handler.hpp:289)
==12406==
            by 0x244C91:
asio_handler_invoke<boost::asio::detail::binder2<boost::_bi::bind_t<void, void (*)</pre>
(drachtio::RequestHandler::_GlobalInfo*, int, int, const boost::system::error_code&, int*),
boost:: bi::list5<boost:: bi::value<drachtio::RequestHandler:: GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::arg<1>, boost::_bi::value<int*> > >,
boost::system::error_code, long unsigned int> > (handler_invoke_hook.hpp:88)
             by 0x244C91: invoke<boost::asio::detail::binder2<boost::_bi::bind_t<void, void (*)
==12406==
(drachtio::RequestHandler::_GlobalInfo*, int, int, const boost::system::error_code&, int*),
boost:: bi::list5<boost:: bi::value<drachtio::RequestHandler:: GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::arg<1>, boost::_bi::value<int*> > >,
boost::system::error_code, long unsigned int>, boost::_bi::bind_t<void, void (*)
(drachtio::RequestHandler::_GlobalInfo*, int, int, const boost::system::error_code&, int*),
boost:: bi::list5<boost:: bi::value<drachtio::RequestHandler:: GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::_bi::value<int*> > >
(handler_invoke_helpers.hpp:54)
==12406==
             by 0x244C91: complete<boost::asio::detail::binder2<boost::_bi::bind_t<void, void (*)
(drachtio::RequestHandler::_GlobalInfo*, int, int, const boost::system::error_code&, int*),
boost::_bi::list5<boost::_bi::value<drachtio::RequestHandler::_GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::arg<1>, boost::_bi::value<int*> > >,
boost::system::error_code, long unsigned int> > (handler_work.hpp:512)
             by 0x244C91: boost::asio::detail::reactive_null_buffers_op<boost::_bi::bind_t<void,
void (*)(drachtio::RequestHandler::_GlobalInfo*, int, int, boost::system::error_code const&,
int*), boost::_bi::list5<boost::_bi::value<drachtio::RequestHandler::_GlobalInfo*>,
boost::_bi::value<int>, boost::_bi::value<int>, boost::arg<1>, boost::_bi::value<int*> > >,
boost::asio::any_io_executor>::do_complete(void*, boost::asio::detail::scheduler_operation*,
boost::system::error code const&, unsigned long) (reactive null buffers op.hpp:84)
==12406==
            by 0x1C6DB6: complete (scheduler_operation.hpp:40)
```

```
by 0x1C6DB6: do complete (epoll reactor.ipp:806)
==12406==
==12406==
             by 0x1C6DB6: boost::asio::detail::epoll reactor::descriptor state::do complete(void*,
boost::asio::detail::scheduler_operation*, boost::system::error_code const&, unsigned long)
(epoll reactor.ipp:796)
==12406==
             by 0x1C68CB: complete (scheduler_operation.hpp:40)
==12406==
             by 0x1C68CB: do_run_one (scheduler.ipp:492)
==12406==
             by 0x1C68CB: boost::asio::detail::scheduler::run(boost::system::error_code&)
(scheduler.ipp:210)
==12406==
            by 0x240096: run (io_context.ipp:63)
==12406== by 0x240096: drachtio::RequestHandler::threadFunc() (request-handler.cpp:448)
==12406==
            by 0x4D67B2E: ??? (in /usr/lib/x86_64-linux-gnu/libstdc++.so.6.0.25)
==12406== by 0x48EDFA2: start thread (pthread create.c:486)
==12406==
             by 0x50C606E: clone (clone.S:95)
==12406== Address 0x73bfaa0 is 0 bytes inside a block of size 4 free'd
             at 0x48369AB: free (in /usr/lib/x86_64-linux-gnu/valgrind/vgpreload_memcheck-amd64-
==12406==
linux.so)
             by 0x24140C: remsock (request-handler.cpp:107)
==12406==
==12406==
             by 0x24140C: drachtio::sock_cb(void*, int, int, void*, void*) (request-
handler.cpp:86)
            by 0x488AAC0: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488E179: ??? (in /usr/lib/x86 64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406==
             by 0x488E2C4: curl_multi_socket_action (in /usr/lib/x86_64-linux-
gnu/libcurl.so.4.5.0)
             by 0x2409A6: drachtio::timer_cb(boost::system::error_code const&,
==12406==
drachtio::RequestHandler::_GlobalInfo*) [clone .part.450] (request-handler.cpp:333)
             by 0x24119F: timer_cb (error_code.hpp:315)
==12406==
==12406==
             by 0x24119F: drachtio::multi_timer_cb(void*, long,
drachtio::RequestHandler::_GlobalInfo*) (request-handler.cpp:169)
==12406==
             by 0x488A47B: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
             by 0x488E2DF: curl_multi_socket_action (in /usr/lib/x86_64-linux-
gnu/libcurl.so.4.5.0)
==12406==
             by 0x2409A6: drachtio::timer_cb(boost::system::error_code const&,
drachtio::RequestHandler::_GlobalInfo*) [clone .part.450] (request-handler.cpp:333)
==12406==
             by 0x24119F: timer_cb (error_code.hpp:315)
             by 0x24119F: drachtio::multi_timer_cb(void*, long,
==12406==
drachtio::RequestHandler::_GlobalInfo*) (request-handler.cpp:169)
            by 0x488A47B: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406== Block was alloc'd at
==12406==
           at 0x4837B65: calloc (in /usr/lib/x86_64-linux-gnu/valgrind/vgpreload_memcheck-amd64-
linux.so)
==12406==
             by 0x241423: addsock (request-handler.cpp:100)
==12406==
             by 0x241423: drachtio::sock_cb(void*, int, int, void*, void*) (request-
handler.cpp:90)
             by 0x488A9D0: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406==
             by 0x488E179: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
             by 0x488E2C4: curl_multi_socket_action (in /usr/lib/x86_64-linux-
==12406==
gnu/libcurl.so.4.5.0)
             by 0x2409A6: drachtio::timer_cb(boost::system::error_code const&,
==12406==
drachtio::RequestHandler::_GlobalInfo*) [clone .part.450] (request-handler.cpp:333)
             by 0x24119F: timer_cb (error_code.hpp:315)
==12406==
             by 0x24119F: drachtio::multi_timer_cb(void*, long,
==12406==
drachtio::RequestHandler::_GlobalInfo*) (request-handler.cpp:169)
             by 0x488A47B: ??? (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
==12406==
==12406==
             by 0x488BCOB: curl_multi_add_handle (in /usr/lib/x86_64-linux-gnu/libcurl.so.4.5.0)
             by 0x24294C: drachtio::RequestHandler::startRequest(std:: cxx11::basic string<char,
==12406==
std::char_traits<char>, std::allocator<char> > const&, std::_cxx11::basic_string<char,</pre>
```

```
std::char traits<char>, std::allocator<char> > const&, std:: cxx11::basic string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, bool) (request-handler.cpp:538)
             by 0x243665: __invoke_impl<void, void (drachtio::RequestHandler::*&)(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool),
drachtio::RequestHandler*&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, bool&> (invoke.h:73)
             by 0x243665: invoke<void (drachtio::RequestHandler::*&)(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool),
drachtio::RequestHandler*&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std:: cxx11::basic string<char, std::char traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >&, bool&> (invoke.h:95)
             by 0x243665: __call<void, 0, 1, 2, 3, 4, 5> (functional:400)
==12406==
             by 0x243665: operator()<> (functional:484)
==12406==
             by 0x243665: asio handler invoke<std:: Bind<void (drachtio::RequestHandler::*
==12406==
(drachtio::RequestHandler*, std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>,
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>, bool))(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool)> >
(handler invoke hook.hpp:88)
             by 0x243665: invoke<std::_Bind<void (drachtio::RequestHandler::*
==12406==
(drachtio::RequestHandler*, std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>,
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>, bool))(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool)>,
std:: Bind<void (drachtio::RequestHandler::*(drachtio::RequestHandler*,</pre>
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>,
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>, bool))(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool)> >
(handler invoke helpers.hpp:54)
             by 0x243665: complete<std::_Bind<void (drachtio::RequestHandler::*
(drachtio::RequestHandler*, std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>,
std::__cxx11::basic_string<char>, std::__cxx11::basic_string<char>, bool))(const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, const
std::__cxx11::basic_string<char>&, const std::__cxx11::basic_string<char>&, bool)> >
(handler_work.hpp:512)
==12406==
             by 0x243665: boost::asio::detail::completion_handler<std::_Bind<void
(drachtio::RequestHandler::*(drachtio::RequestHandler*, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> >, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> >, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> >, std::_cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> >, bool))(std::_cxx11::basic_string<char,
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, std::_cxx11::basic_string<char,
std::char_traits<char>, std::allocator<char> > const&, std::__cxx11::basic_string<char,</pre>
std::char_traits<char>, std::allocator<char> > const&, bool)>,
boost::asio::io_context::basic_executor_type<std::allocator<void>, Oul> >::do_complete(void*,
boost::asio::detail::scheduler_operation*, boost::system::error_code const&, unsigned long)
```

```
(completion handler.hpp:74)
     ==12406== by 0x1C68CB: complete (scheduler_operation.hpp:40)
     ==12406==
                 by 0x1C68CB: do_run_one (scheduler.ipp:492)
     ==12406== by 0x1C68CB: boost::asio::detail::scheduler::run(boost::system::error_code&)
     (scheduler.ipp:210)
     ==12406==
     davehorton added a commit that referenced this issue 3 days ago
      fix for use-after-free (#240)
                                                                                                   X 860f025
       avehorton closed this as completed 3 days ago
  davehorton commented 2 days ago
                                                                                             Collaborator
  fixed in v0.8.19-rc12
      asarubbo changed the title Use-after-free in event_cb when drachtio-server receives a call CVE-2022-
      45474: Use-after-free in event_cb when drachtio-server receives a call 19 hours ago
  asarubbo commented 19 hours ago
                                                                                                  Author
  CVE-2022-45474 has been assigned to this issue
Assignees
No one assigned
Labels
None yet
Projects
None yet
Milestone
No milestone
n- -I------
```

Development

No branches or pull requests

2 participants



