strongSwan - Issue #3352

custom printf specifiers on Windows

27.02.2020 11:59 - Noel Kuntze

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	windows		
Affected version:	5.8.2	**Resolution:**	No change required

Description

Currently, strongSwan built for Windows and run on Windows can not use custom specifiers. Thus the test code for the printf-hooks crashes on Windows.
mingw64 supports GNU style printf custom hooks and specifiers by using the *USE_MINGW_ANSI_STDIO 1 macro and the _attribute*((*format* (_MINGW_PRINTF_FORMAT, 2, 3))) macro.
We could make use of that to then also run the printf-hooks test and use the custom printf hooks on Windows.
Do the custom hooks work on Windows right now? Would this be of benefit?

History

#1 - 27.02.2020 11:59 - Noel Kuntze

I forgot, the link to the wiki page: https://sourceforge.net/p/mingw-w64/wiki2/gnu%20printf/

#2 - 27.02.2020 15:03 - Tobias Brunner

- Status changed from New to Feedback

> Currently, strongSwan built for Windows and run on Windows can not use custom specifiers.

What are you referring to? On Windows, or whenever else register_printf_specifier()/register_printf_function() are not available, the custom built-in printf implementation is used automatically (can also be selected manually if necessary via --with-printf-hooks=builtin).

> Thus the test code for the printf-hooks crashes on Windows.

We run our tests successfully on Windows (via AppVeyor) automatically for every push.

> mingw64 supports GNU style printf custom hooks and specifiers by using the *USE_MINGW_ANSI_STDIO 1 macro and the _attribute*((*format* (_MINGW_PRINTF_FORMAT, 2, 3))) macro.

That seems to be about interpreting existing GNU printf-specifiers. At least the documentation does not mention anything about custom printf-specifiers.

#3 - 02.03.2020 18:15 - Noel Kuntze

- Status changed from Feedback to Closed

Tobias Brunner wrote:

> > Currently, strongSwan built for Windows and run on Windows can not use custom specifiers.
>
> What are you referring to? On Windows, or whenever else register_printf_specifier()/register_printf_function() are not available, the custom built-in printf implementation is used automatically (can also be selected manually if necessary via --with-printf-hooks=builtin).
>
> > Thus the test code for the printf-hooks crashes on Windows.
>
> We run our tests successfully on Windows (via AppVeyor) automatically for every push.

Interesting. I have failures (crashes) for that test on appveyor. It might not be related to the specific test then.

> mingw64 supports GNU style printf custom hooks and specifiers by using the *USE_MINGW_ANSI_STDIO 1 macro and the _attribute*((*format* (_MINGW_PRINTF_FORMAT, 2, 3))) macro.

That seems to be about interpreting existing GNU printf-specifiers. At least the documentation does not mention anything about custom printf-specifiers.

Alright, thanks. :)

#4 - 02.03.2020 18:16 - Noel Kuntze

- Resolution set to No change required

#5 - 03.03.2020 11:36 - Tobias Brunner

> Interesting. I have failures (crashes) for that test on appveyor. It might not be related to the specific test then.

Yeah, we have occasional crashes too on AppVeyor (in different tests, so it's tricky to track down).