

build problem replacing libssl.so -- please read!

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2003-10/0279.html>

From: John Fox (*jff_at_NO_SPAMmind.net*)

Date: 10/10/03

Date: Fri, 10 Oct 2003 09:13:12 -0700

To: freebsd-stable@freebsd.org

Hello to all,

I apologize for posting this message a second time, but it's been twenty-one hours, and no responses. I ask that people please read this message and give me some feedback, as this issue has me boggled. And if I haven't given enough information or shown enough effort to merit help, could someone at the very least give me a nudge in the proper direction? It'd be really appreciated.

I've got a production machine running FreeBSD 4.8-RELEASE, and I need to upgrade it to fix the SSL, procs issues that have come up lately. The machine's root partition lacks the space to accomodate world source and object files, so I have two symlinks for /usr/src and /usr/obj:

```
/usr/src --> /usr/local/world_src  
/usr/obj --> /usr/local/world_obj
```

I should also note that the apache13-modssl port is installed on this server.

I cvsupped RELENG_4_8 (with `"*default prefix=/usr"` in the supfile) successfully.

I cd'd to /usr/src, issued the "make buildworld" command, and waited until the build finished. I then cd'd to /usr/obj/ and took a look around. In there I found a directory hierarchy of "usr/local/world_src", and within that were the nice shiny new files.

One of my aims was to replace libssl.so.3 with a fixed version, so (after making a backup copy of the current /usr/lib/libssl.so.3) I placed /usr/obj/usr/local/world_src/secure/lib/libssl/libssl.so.3 into /usr/lib and then attempted an https connection to the server. (Apache's libssl.so module was dynamically linked against libssl.so.3). I found that my connection did not really work properly, creating errors such as these in the httpd error log:

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```
[Wed Oct 8 16:01:04 2003] [error] [client W.X.Y.Z] Invalid method in request \x80C\x01\x03
[Wed Oct 8 16:02:48 2003] [error] [client W.X.Y.Z] Invalid method in request \x16\x03
[Wed Oct 8 16:02:48 2003] [error] [client W.X.Y.Z] Invalid method in request \x16\x03
```

Clearly, I did something wrong, for when I put the original libssl.so.3 back in place, those errors went no longer occurred.

I was totally confused at this point, and so I wrote up a problem description which I posted to freebsd-questions yesterday afternoon. It's been almost twenty hours since that posting, so I contacted my old boss, and asked him to read the letter, giving me any feedback he could.

We made a few determinations:

- 1) The httpd binary itself is not linked against any ssl library. It's linked dynamically against only libcrypto, libc, libm, libutil.
- 2) mod_ssl is not compiled into the httpd binary. It is loaded via httpd.conf 'AddModule' and 'LoadModule' directives.
- 3) '/usr/local/libexec/apache/libssl.so' appears to be the SSL module, as there is no 'mod_ssl' file in /usr/local/libexec/apache. This file is linked dynamically against libssl.so.3 and libcrypto.so.3.

My old boss suggested replacing libcrypto.so.3 with the new version, in addition to replacing libssl.so.3. I did this, but it only made matters worse:

- * The httpd problem still existed
- * SSHD broke – my terminal windows to that host vanished in a fraction of a second and no new connections were allowed.

I put the old libraries back into place, and reported failure to my ex-boss. He then suggested that perhaps my installation was sufficiently old that an entirely new world was required.

I told him that the system was running (from unname) "4.8-RELEASE #0: Thu Apr 3 ", and the the world I had just built was 4.8p13, and he was no longer so certain that my installation was so old that it had to have an all new world, and suggested that I write all this up and post it to freebsd-stable, which I am doing right now!

I hope that I have described the problem clearly, and that someone will be able to shed some light on this matter.

Thank you very much,

–John

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```
--
+-----+
| John Fox <jjf @ mind.net>      | System Administrator | InfoStructure |
+-----+
|      Gideon: I thought you said don't hold a grudge.      |
|      Galen: I don't. I have no surviving enemies...at all. |
|      -- "Crusdade", _Racing the Night_                    |
+-----+
----- End forwarded message -----
-John
--
+-----+
| John Fox <jjf@mind.net>      | System Administrator | InfoStructure |
+-----+
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+-----+
```

freebsd-stable@freebsd.org mailing list

<http://lists.freebsd.org/mailman/listinfo/freebsd-stable>

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