Ruby - Bug #6938

[PATCH] Increase DH key size to fix test suite in FIPS mode

08/28/2012 12:29 AM - vo.x (Vit Ondruch)

Status:	Closed	
Priority:	Normal	
Assignee:	MartinBosslet (Martin Bosslet)	
Target version:		
ruby -v:	ruby 2.0.0dev	Backport:
Description		
In FIPS mode, DI the test suite pas	č	ulus smaller than 1024 bits. This patch increases the key size to make
Related issues:		
Related to Ruby - Feature #6946: FIPS support?		Open

Associated revisions

Revision 9871dd5783963ad3d341ddb58f6bfe7ca7ceb444 - 08/28/2012 08:03 PM - MartinBosslet (Martin Bosslet)

 test/openssl/utils.rb test/openssl/test_pair.rb test/openssl/test_pkey_dh.rb: Use 1024 bit DH parameters to satisfy OpenSSL FIPS requirements. Patch by Vit Ondruch. [Bug #6938] [ruby-core:47326]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@36843 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 9871dd57 - 08/28/2012 08:03 PM - MartinBosslet (Martin Bosslet)

 test/openssl/utils.rb test/openssl/test_pair.rb test/openssl/test_pkey_dh.rb: Use 1024 bit DH parameters to satisfy OpenSSL FIPS requirements. Patch by Vit Ondruch. [Bug #6938] [ruby-core:47326]

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History

#1 - 08/28/2012 12:37 AM - naruse (Yui NARUSE)

- Status changed from Open to Assigned

- Assignee changed from duerst (Martin Dürst) to MartinBosslet (Martin Bosslet)

Generating 1024bit key takes much more time then 256bit, so it should reuse the key instead of simply replacing like s/256/1024/.

#2 - 08/28/2012 01:15 AM - vo.x (Vit Ondruch)

- File 0001-Use-higher-DH-key-moudlus-to-pass-test-with-FIPS-ena.patch added

Hm, actually, it seems that the test_pair one can be entirely dropped. Not sure about the test_pkey_dh.rb, since they are testing directly the DH algorithm.

#3 - 08/28/2012 01:16 AM - vo.x (Vit Ondruch)

- File deleted (0001-Use-higher-DH-key-moudlus-to-pass-test-with-FIPS-ena.patch)

#4 - 08/28/2012 01:23 AM - vo.x (Vit Ondruch)

- File 0001-Use-higher-DH-key-moudlus-to-pass-test-with-FIPS-ena.patch added

I'm using now the cached key. I hope I did not degraded the quality of TS too much.

#5 - 08/28/2012 01:23 AM - vo.x (Vit Ondruch)

- File deleted (0001-Use-higher-DH-key-moudlus-to-pass-test-with-FIPS-ena.patch)

#6 - 08/28/2012 01:58 AM - MartinBosslet (Martin Bosslet)

Yes, better with the cached key. Thanks for the patch!

#7 - 08/29/2012 05:03 AM - Anonymous

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r36843. Vit, thank you for reporting this issue. Your contribution to Ruby is greatly appreciated. May Ruby be with you.

 test/openssl/utils.rb test/openssl/test_pair.rb test/openssl/test_pkey_dh.rb: Use 1024 bit DH parameters to satisfy OpenSSL FIPS requirements. Patch by Vit Ondruch. [Bug <u>#6938</u>] [ruby-core:47326]

#8 - 09/02/2012 05:24 AM - naruse (Yui NARUSE)

Why TEST_KEY_DH1024 in test/openssl/utils.rb doesn't use cache?

#9 - 09/02/2012 08:51 PM - MartinBosslet (Martin Bosslet)

Why TEST_KEY_DH1024 in test/openssl/utils.rb doesn't use cache?

Unfortunately DH doesn't allow serialization of the private exponent out of the box like the other PKeys do. But 1024 bits generation is eating up a lot of time, way too much for tests IMO. And what's worse, I saw that the "test-all" target for one run on rubyci timed out. I'm currently looking for a way to still be able to serialize DH keys including the private exponent to solve this.

#10 - 09/02/2012 09:58 PM - MartinBosslet (Martin Bosslet)

OK, I found a way to use a cached key (r36881). This still leaves us with the problem that "test_new" in test_pkey_dh.rb consumes a lot of time. But I think I found a way how to handle this cleanly (cf. <u>#6946</u>).

#11 - 09/02/2012 10:03 PM - naruse (Yui NARUSE)

MartinBosslet (Martin Bosslet) wrote:

OK, I found a way to use a cached key (r36881). This still leaves us with the problem that "test_new" in test_pkey_dh.rb consumes a lot of time. But I think I found a way how to handle this cleanly (cf. <u>#6946</u>).

Great!

I thought test_new is unavoidable.

Files

0001-Use-higher-DH-key-moudlus-to-pass-test-with-FIPS-ena.patch 2.64 KB

08/28/2012

vo.x (Vit Ondruch)