

## Ruby - Misc #19608

### Being a co-maintainer of the ruby/openssl for the OpenSSL FIPS mode

04/18/2023 01:07 PM - jaruga (Jun Aruga)

|                  |                           |
|------------------|---------------------------|
| <b>Status:</b>   | Closed                    |
| <b>Priority:</b> | Normal                    |
| <b>Assignee:</b> | matz (Yukihiro Matsumoto) |

#### Description

### Motivation and context

Recently I have been working for the [ruby/openssl](#) to support OpenSSL 3 FIPS mode such as sending pull-requests and reporting issues to the [OpenSSL project](#). The related issue ticket is [here](#).

Currently a challenge of the ruby/openssl is that it doesn't work well on the OpenSSL FIPS mode, and I want ruby/openssl to work on it by adding the OpenSSL 3 FIPS mode case to the CI, and by adding more FIPS related unit tests and features. To solve this challenge, I would like to be a co-maintainer of the ruby/openssl for the FIPS mode related things. What do you think?

### What is FIPS mode?

For someone who is interested in knowing the FIPS mode. Let me share the related documents below. In my understanding, FIPS mode is a security policy developed by US government. In some cases, the shipped Linux OS systems need to follow this policy. And OpenSSL has a feature to enable the FIPS mode. The README is [here](#). And there can be FIPS specific issues in the ruby/openssl with the OpenSSL FIPS mode enabled.

FIPS related documents:

- [FIPS Wikipedia](#)
- [Red Hat Enterprise Linux \(RHEL\)](#)
- [Amazon Linux](#)
- [SUSE Linux](#)
- [Ubuntu](#)

### Past FIPS related issue tickets

As a reference, I just found some old issue tickets below. It is about OpenSSL 1.0 and 1.1 FIPS mode.

- <https://bugs.ruby-lang.org/issues/6946>
- <https://bugs.ruby-lang.org/issues/19073>

#### History

#1 - 04/18/2023 01:53 PM - jaruga (Jun Aruga)

- Description updated

#2 - 04/19/2023 02:06 AM - hsbt (Hiroshi SHIBATA)

- Status changed from Open to Assigned

- Assignee set to matz (Yukihiro Matsumoto)

+1

I'll support [@jaruga \(Jun Aruga\)](#) if you need extra permissions of our resources.

#3 - 04/21/2023 12:50 PM - jaruga (Jun Aruga)

[@hsbt \(Hiroshi SHIBATA\)](#) thanks for your help!

Everyone, any other comments?

#4 - 04/24/2023 03:20 PM - jaruga (Jun Aruga)

- Description updated

**#5 - 05/09/2023 09:01 AM - jaruga (Jun Aruga)**

For someone who is interested in how to debug the ruby/openssl with OpenSSL 3 FIPS mode, I created a document about the topic below.

<https://hackmd.io/@jaruga/ryDnksRm2>

**#6 - 05/10/2023 12:00 PM - hsbt (Hiroshi SHIBATA)**

In Dev Meeting 5/10 at Matsumoto, no one objects this proposal.

**#7 - 05/15/2023 12:47 PM - jaruga (Jun Aruga)**

Thank you for discussing the topic in the meeting.

I started to work as a co-maintainer of the ruby/openssl for the FIPS mode.

**#8 - 05/16/2023 08:42 AM - hsbt (Hiroshi SHIBATA)**

*- Status changed from Assigned to Closed*

Thank you. If you have any issue, please notify me.