Ruby - Feature #20673

Enable native SOCKS support by default

08/10/2024 08:04 PM - MatzFan (Brian Cohen)

Status:	Feedback		
Priority:	Normal		
Assignee:			
Target version:			
Description			
I'd like to see fut	ure Rubies have native SOCKS s	upport enabled b	by default.
	must be compiled with theenal etwork connections may be made		ption in order to provide access to the SOCKSSocket class, protocol.
My proposal is si	imply to deprecate theenable-so	ocks option IFO	of SOCKS support being enabled by default.
the latter is used wishing to make SOCKS enabled	as an anonymity tool. For examp requests through the SOCKS pro	le, the Tor Brow tocol (through or quests through t	d SOCKS proxies are <u>Dante</u> and <u>Tor</u> . I know little of the former, but ser (based on Firefox) is built on the tor SOCKS proxy. Users ne of these proxies or otherwise) must compile their own Ruby with these via another tool - e.g. a Selenium-driven browser, suitably ized.
rbenv (in both pr presently reliant originally built to libraries. The cur undesirable state to gauge the exa	oduction and CI environments). U on the <u>socksify</u> Ruby gem (> 60M provide native SOCKS support to rrent gem patches the private met e of affairs and all code built using	sers needing to downloads). De users of these ' hod Net::HTTP# socksify is of co eed, but of the 6	use the standard Rubies available from Ruby managers like rvm or use the SOCKS protocol natively with one of these Rubies are eclaration: I am the gem's current maintainer. The gem was standard' Rubies via patches to the Net/HTTP and other Ruby core connect in order to achieve this. This is a brittle and highly burse subject to breakage with each new Ruby release. It is difficult 60M Socksify downloads 20M have taken place is the last few base.
Many other lang	uages provide native SOCKS sup	port - e.g. Pytho	n has <u>PySocks</u> .
			rt - would it break anything? I'd dearly like to retire the Socksify fer SOCKS support by default - in all future Rubies.
Many thanks for	your consideration.		
History			
#1 - 08/23/2024 02	2:19 AM - znz (Kazuhiro NISHIYAMA)	
Enabling SOCKS s So I agree to enab	support depends SOCKS_SERVER to le by default.	o now, I think it is	unusual.
I created <u>a pull request</u> .			
But it cannot enable as before if building environment does not have socks library.			
#2 - 09/05/2024 01	:20 PM - nobu (Nobuyoshi Nakada)		
At the developers' meeting, there was an opinion that we could drop the support for SOCKS if it works well with socksify.			
#3 - 09/05/2024 02	2:36 PM - MatzFan (Brian Cohen)		
	()		

@nobu (Nobuyoshi Nakada) there has perhaps been a misunderstanding. The socksify library works adequately for HTTP today, but it patches a private method in the Net::HTTP class. This makes any code built using socksify very fragile and potentially subject to breakage with each new Ruby release. It also no longer works for other protocols (e.g. FTP - <u>since Ruby 2.4</u>). The library is a hack and no substitute for the support for socks which Ruby can provide if the (currently non-default) --enable-socks compile option is used.

If Ruby developers feel that SOCKS support is not something the core language should provide, an alternative may be to make the relevant parts of the various network API's public (i.e. for each protocol that can be used with SOCKS). This way socksify or another library can be used to extend the language to provide SOCKS support properly, for those who require it.

#4 - 09/06/2024 03:46 AM - nobu (Nobuyoshi Nakada)

As for the current SOCKS support at least, if the necessary library and header are found socket.so uses SOCKS functions instead of standard socket functions, and the built socket.so cannot be loaded where SOCKS library is not installed. This means "native SOCKS support enabled by default" requires platforms to support it (by default or optionally).

I looked for how to install SOCKS library/headers using package managers, but couldn't find it in Ubuntu, MacPorts, HomeBrew and vcpkg at least.

An alternative I thought out is to make SOCKSSocket class a separate extension library for libraries/users who want to use SOCKS.

MatzFan (Brian Cohen) wrote in <u>#note-3</u>:

If Ruby developers feel that SOCKS support is not something the core language should provide, an alternative may be to make the relevant parts of the various network API's public (i.e. for each protocol that can be used with SOCKS). This way socksify or another library can be used to extend the language to provide SOCKS support properly, for those who require it.

It sounds a good way. Could you make a draft?

#5 - 10/03/2024 08:53 AM - hsbt (Hiroshi SHIBATA)

- Status changed from Open to Feedback