

## Ruby - Bug #5418

### Some properties of WEBrick::HTTPRequest could be malformed

10/07/2011 12:01 PM - nahi (Hiroshi Nakamura)

<b>Status:</b>	Rejected	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	normalperson (Eric Wong)	
<b>Target version:</b>		
<b>ruby -v:</b>	-	
<b>Backport:</b>		
<b>Description</b>		
Original reported issue: CVE-2011-3187		
Users may expect that properties of WEBrick::HTTPRequest to be not malformed/faked. But at the fact, in current implementation, following properties can be malformed and faked by HTTP header sent by attacker.		
<ul style="list-style-type: none"><li>• HTTPRequest#host</li><li>• can be malformed/faked by 'x-forwarded-host'</li><li>• can be faked by 'Host'</li><li>• HTTPRequest#port</li><li>• can be faked by 'Host'</li><li>• HTTPRequest#server_name</li><li>• can be malformed/faked by 'x-forwarded-server'</li><li>• HTTPRequest#remote_ip</li><li>• can be malformed/faked by 'x-forwarded-for' and 'client-ip'</li><li>• HTTPRequest#ssl?</li><li>• can be faked by 'Host'</li><li>• HTTPRequest#meta_vars (Hash of meta vars such as 'REQUEST_URI')</li><li>• can be malformed/faked by some HTTP headers</li></ul>		
Here's the list of reason why we're thinking it's not a high-priority security bug at this moment.		
<ul style="list-style-type: none"><li>• For faked data issue, we don't have a way to guarantee that it's not faked. So developers of HTTPRequest must aware of that.</li><li>• For malformed data issue, it should be a bug of HTTPRequest to be fixed, but it's the same problem for x-forwarded-host, x-forwarded-server and client-ip. We're offering those data in as-is basis from HTTP header so we can expect users handle the data properly for their purpose (for dumping to xterm, embedding to HTML, etc.)</li><li>• And the fix for this bug would be a little complex for quick-fix because it's not only x-forwarded-for which causes this issue. 'client-ip' needs care, too. Documentation would be enough for server_name. We think we need general development cycle for fixing it.</li></ul>		

ref:

[https://bugzilla.novell.com/show\\_bug.cgi?id=673010](https://bugzilla.novell.com/show_bug.cgi?id=673010)

<http://webservsec.blogspot.com/2011/02/ruby-on-rails-vulnerability.html>

## History

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**#1 - 03/18/2012 06:46 PM - shyouhei (Shyouhei Urabe)**

- Status changed from Open to Assigned

**#2 - 02/17/2013 07:08 PM - ko1 (Koichi Sasada)**

- Target version changed from 2.0.0 to 2.1.0

Time up for 2.0.0.

Nahi-san, how about this ticket?

**#3 - 01/30/2014 06:16 AM - hsbt (Hiroshi SHIBATA)**

- Target version changed from 2.1.0 to 2.2.0

**#4 - 01/05/2018 09:00 PM - naruse (Yui NARUSE)**

- Target version deleted (2.2.0)

**#5 - 08/09/2018 08:56 AM - naruse (Yui NARUSE)**

- Assignee changed from nahi (Hiroshi Nakamura) to normalperson (Eric Wong)

As Rails did, webrick seems to need introduce TRUSTED\_PROXIES.

**#6 - 12/24/2020 10:21 AM - hsbt (Hiroshi SHIBATA)**

- Status changed from Assigned to Rejected

WEBrick has been removed from ruby repository.

If anyone interest this, Please file this to <https://github.com/ruby/webrick>