

## Website Monitoring - Bug #1035

### Input fails on IIS over HTTPS due to missing servername

08/25/2015 05:41 AM - Luke Murphey

<b>Status:</b>	Closed	<b>Start date:</b>	08/25/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Luke Murphey	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	1.3		
<b>Description</b>			
<p>Huge fan of your app, seems to be a lot of clients using it and it's proving to be a great way to get instant results for a lot of eComm heavy and branding focused organisations.</p> <p>I've been trying to roll it out for a client of mine and it appears that it's struggling with certain URLs running over HTTPS on IIS.</p> <p>For example, when we try to hit up <a href="https://www.penfolds.com">https://www.penfolds.com</a> within the app, it fails to connect. After a fair bit of digging around, it appears to be down to how IIS handles SSL requests, as highlighted here:</p> <p><a href="http://blog.helge.net/2014/06/error-connecting-with-openssl-sclient.html">http://blog.helge.net/2014/06/error-connecting-with-openssl-sclient.html</a></p> <p>I tried to connect via OpenSSL with:</p> <pre>s_client -connect <a href="https://www.penfolds.com">www.penfolds.com:443</a></pre> <p>This immediately returns an errorno=54</p> <p>I can successfully connect with:</p> <pre>s_client -connect <a href="https://www.penfolds.com">www.penfolds.com:443</a> -servername <a href="https://www.penfolds.com">www.penfolds.com</a></pre> <p>Hooray for IIS.</p> <p>That being said, do you think you may be able to add/fix this particular feature in a release for this app in the future? I guess a checkbox/field combo box to add a "--servername" argument when creating the input would be best, but I'm no app-creating genius, and there may be better ways to go about this.</p> <p>Let me know if you have any questions about this particular issue; happy to give you more background.</p> <p>References:</p> <ul style="list-style-type: none"><li>• <a href="http://blog.helge.net/2014/06/error-connecting-with-openssl-sclient.html">http://blog.helge.net/2014/06/error-connecting-with-openssl-sclient.html</a></li><li>• <a href="https://docs.python.org/2/whatsnew/2.7.html#pep-466-network-security-enhancements-for-python-2-7">https://docs.python.org/2/whatsnew/2.7.html#pep-466-network-security-enhancements-for-python-2-7</a> (this may have been fixed in python 2.7)</li></ul>			

#### History

##### #1 - 08/25/2015 06:08 AM - Luke Murphey

Might be related: <https://github.com/DataDog/dd-agent/issues/1196>

##### #2 - 08/25/2015 04:05 PM - Luke Murphey

Adding the host doesn't seem to work. It appears that httplib2 provides this by itself.

##### #3 - 08/25/2015 04:05 PM - Luke Murphey

My problem might be SNI: <http://docs.python-requests.org/en/latest/community/faq/>

**#4 - 08/25/2015 04:07 PM - Luke Murphey**

It appears this may never work: <https://code.google.com/p/httplib2/issues/detail?id=233>

**#5 - 08/25/2015 04:12 PM - Luke Murphey**

I don't think I can fix this. From what I can tell, you need support from the SSL libs ( <https://stackoverflow.com/questions/18578439/using-requests-with-tls-doesnt-give-sni-support/18579484#18579484>). I cannot install these from an app though.

**#6 - 08/25/2015 04:16 PM - Luke Murphey**

<http://sourceforge.net/p/httplib2/mailman/message/302651/>

**#7 - 08/25/2015 04:21 PM - Luke Murphey**

Going to try using the requests library version 2.5.1 (<https://github.com/kennethreitz/requests/releases/tag/v2.5.1>).

**#8 - 08/25/2015 04:22 PM - Luke Murphey**

BTW: look at the unit test testSslHostnameValidation here: <https://github.com/kerin/httplib2/blob/master/python2/httplib2test.py>

Thats a good test for SNI support (or lack thereof).

**#9 - 08/25/2015 04:25 PM - Luke Murphey**

Requests seems to work:

```
import requests
r = requests.get('https://www.penfolds.com')
r.status_code # Is 200
```

**#10 - 08/25/2015 05:53 PM - Luke Murphey**

Need to enable proxy support: <https://scraperjs.wordpress.com/2013/11/26/using-socks-proxy-in-python-for-httphttps-requests/>

**#11 - 08/25/2015 06:29 PM - Luke Murphey**

This isn't working even after converting to requests. It appears that the unit tests succeed with Splunk's Python interpreter, but fail when running within Splunk.

**#12 - 08/25/2015 06:33 PM - Luke Murphey**

Scratch that; I think this should work if Splunk is upgraded since SNI works on python 2.7.9 and up.

**#13 - 08/25/2015 07:50 PM - Luke Murphey**

Need to make sure timeouts are recognized too.

**#14 - 08/25/2015 07:50 PM - Luke Murphey**

Timeouts are not being raised like this: <http://www.mobify.com/blog/http-requests-are-hard/>

**#15 - 08/25/2015 07:52 PM - Luke Murphey**

How to set timeout: <https://urllib3.readthedocs.org/en/latest/index.html#timeout>

**#16 - 08/25/2015 09:47 PM - Luke Murphey**

<http://stackoverflow.com/questions/12601316/how-to-make-python-requests-work-via-socks-proxy>

pysocks supposedly works: <http://dae.me/blog/1959/using-pythons-urllib2-or-requests-with-a-socks5-proxy/>

Another solution: <https://seanmckaybeck.com/wrapping-python-requests-in-a-socks5-proxy.html>

**#17 - 08/26/2015 04:33 AM - Luke Murphey**

- *Status changed from New to In Progress*

- *Target version set to 1.3*

- *% Done changed from 0 to 70*

**#18 - 08/26/2015 05:04 AM - Luke Murphey**

Splunk 6.2.5 ships with Python 2.7.8. It appears that 6.3.0 is a minimum to achieve SNI support.

**#19 - 08/26/2015 05:04 AM - Luke Murphey**

- *% Done changed from 70 to 100*

**#20 - 08/27/2015 04:20 PM - Luke Murphey**

- *Status changed from In Progress to Closed*