

Website Monitoring - Bug #2509

Bug # 2500 (Closed): Doesn't work on Splunk 8.0

Test failures related to NTLM

11/12/2019 01:40 AM - Luke Murphey

Status:	Closed	Start date:	11/11/2019
Priority:	Normal	Due date:	
Assignee:	Luke Murphey	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.8		
Description			

Associated revisions

Revision 493 - 11/12/2019 02:08 AM - luke.murphey

Updating MD4 to work on Python 3

Reference #2509

Revision 498 - 11/12/2019 05:43 AM - luke.murphey

Fixing NTLM issues with the test server

Reference #2509

Revision 500 - 11/12/2019 05:48 AM - luke.murphey

Making tests no longer swallow exceptions

Reference #2509

Revision 502 - 11/12/2019 06:40 AM - luke.murphey

Reaplcing the MD4 implementation with one that works on Python 3

Reference #2509

History

#1 - 11/12/2019 02:10 AM - Luke Murphey

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

#2 - 11/12/2019 05:22 AM - Luke Murphey

- Status changed from Closed to In Progress
- % Done changed from 100 to 50

```
[exec] =====
[exec] FAIL: test_determine_auth_method_ntlm (__main__.TestWebPing)
[exec] -----
```

```

[exec] Traceback (most recent call last):
[exec]   File "unit.py", line 166, in _decorator
[exec]     return func(self, *args, **kwargs)
[exec]   File "unit.py", line 417, in test_determine_auth_method_ntlm
[exec]     self.assertEqual(auth_type, WebPing.HTTP_AUTH_NTLM)
[exec] AssertionError: None != 'ntlm'
[exec]
[exec] =====
[exec] FAIL: test_determine_auth_method_ntlm_comma_header (__main__.TestWebPing)
[exec] -----
[exec] Traceback (most recent call last):
[exec]   File "unit.py", line 166, in _decorator
[exec]     return func(self, *args, **kwargs)
[exec]   File "unit.py", line 426, in test_determine_auth_method_ntlm_comma_header
[exec]     self.assertEqual(auth_type, WebPing.HTTP_AUTH_NTLM)
[exec] AssertionError: None != 'ntlm'
[exec]
[exec] =====
[exec] FAIL: test_ping_over_proxy (__main__.TestWebPing)
[exec] -----
[exec] Traceback (most recent call last):
[exec]   File "unit.py", line 37, in _decorator
[exec]     return func(self, *args, **kwargs)
[exec]   File "unit.py", line 326, in test_ping_over_proxy
[exec]     self.assertEqual(result.response_code, 200)
[exec] AssertionError: 0 != 200
[exec]
[exec] =====
[exec] FAIL: test_ping_with_ntlm_authentication (__main__.TestWebPing)
[exec] -----
[exec] Traceback (most recent call last):
[exec]   File "unit.py", line 166, in _decorator
[exec]     return func(self, *args, **kwargs)
[exec]   File "unit.py", line 361, in test_ping_with_ntlm_authentication
[exec]     self.assertEqual(result.response_code, 200)
[exec] AssertionError: 0 != 200
[exec]
[exec] =====
[exec] FAIL: test_ping_with_ntlm_authentication_missing_domain (__main__.TestWebPing)
[exec] -----
[exec] Traceback (most recent call last):
[exec]   File "unit.py", line 376, in test_ping_with_ntlm_authentication_missing_domain
[exec]     self.assertRaises(NTLMAuthenticationValueException, lambda: WebPing.ping( url_field.to_python(
"http://127.0.0.1:" + str(self.web_server_port) + "/ntlm_auth"), timeout=3, username="user", password="passwd"
))
[exec]
[exec] AssertionError: NTLMAuthenticationValueException not raised by <lambda>
[exec]
[exec] =====
[exec] FAIL: test_ping_with_ntlm_negotiate_authentication (__main__.TestWebPing)
[exec] -----
[exec] Traceback (most recent call last):
[exec]   File "unit.py", line 166, in _decorator
[exec]     return func(self, *args, **kwargs)
[exec]   File "unit.py", line 370, in test_ping_with_ntlm_negotiate_authentication
[exec]     self.assertEqual(result.response_code, 200)
[exec] AssertionError: 0 != 200

```

Questions:

- Why does this work locally but not on the CI system?
 - It appears that the test on Linux are using Python 3 because I see "ResourceWarning: unclosed <socket.socket fd=6..."
- Does the HTTP messages show a different trace?
- Do I get the same errors on Python 3?
 - I do

Observations:

- Here is a functioning trace of TestWebPing.test_ping_with_ntlm_authentication:

```
test.run_unit:
[exec] 127.0.0.1 - - [11/Nov/2019 21:55:29] "GET /ntlm_auth HTTP/1.1" 401 -
[exec] 127.0.0.1 - - [11/Nov/2019 21:55:29] "GET /ntlm_auth HTTP/1.1" 401 -
[exec] 127.0.0.1 - - [11/Nov/2019 21:55:29] "GET /ntlm_auth HTTP/1.1" 401 -
[exec] 127.0.0.1 - - [11/Nov/2019 21:55:29] "GET /ntlm_auth HTTP/1.1" 200 -
[exec] .
[exec] -----
[exec] Ran 1 test in 0.042s
[exec]
[exec] OK
[exec] Waiting for web-server to start ... Done
[exec] ('Authorization Header:', None)
[exec] Performing initial NTLM auth
[exec] ('Authorization Header:', None)
[exec] Performing initial NTLM auth
[exec] ('Authorization Header:', 'NTLM TlRMTVNTUAABAAAAB7IIogQABAA6AAAAEgASACgAAAAFASgKAAAAD0xNVVJQSE
VZLU1CUC01N0YxNVVTRVI=')
[exec] Performing NTLM auth challenge
[exec] ('Authorization Header:', 'NTLM TlRMTVNTUAADAAAAGAAAYIAAAAAAYABgAmAAAAAgACABIAAADAAAMAFAAAAkAC
QAXAAAAAAACwAAAAABYKIogUBKAoAAAAAPVQBTAEUUgBkAG8AbQBhAGkAbgBMAE0AVQBSAFaASABFAfKALQBNAEIAUAAtADUANwBGAD
NQCORlqd+aRHAt0883y1FZiXV+mht5VAw3TRUa8504UTOBvSBjRmcDRbwsVSkncGU5Y=')
[exec] Completing NTLM auth
```

- Here is the failing state:

```
[exec] unit.py:113: ResourceWarning: unclosed file <_io.TextIOWrapper name='../local.properties' mode
='r' encoding='UTF-8'>
[exec] self.loadConfig()
[exec] ResourceWarning: Enable tracemalloc to get the object allocation traceback
[exec] 127.0.0.1 - - [11/Nov/2019 21:56:59] "GET /ntlm_auth HTTP/1.1" 401 -
[exec] 127.0.0.1 - - [11/Nov/2019 21:56:59] "GET /ntlm_auth HTTP/1.1" 401 -
[exec] 127.0.0.1 - - [11/Nov/2019 21:56:59] "GET /ntlm_auth HTTP/1.1" 401 -
[exec] F
[exec] =====
[exec] FAIL: test_ping_with_ntlm_authentication (__main__.TestWebPing)
[exec] -----
[exec] Traceback (most recent call last):
[exec]   File "unit.py", line 166, in _decorator
[exec]     return func(self, *args, **kwargs)
[exec]   File "unit.py", line 361, in test_ping_with_ntlm_authentication
[exec]     self.assertEqual(result.response_code, 200)
[exec] AssertionError: 0 != 200
[exec]
[exec] -----
[exec] Ran 1 test in 20.070s
[exec]
[exec] FAILED (failures=1)
[exec] Waiting for web-server to start ..... Done
[exec] Authorization Header: None
[exec] Performing initial NTLM auth
[exec] Authorization Header: None
[exec] Performing initial NTLM auth
[exec] Authorization Header: NTLM TlRMTVNTUAABAAAAB7IIogQABAA6AAAAEgASACgAAAAFASgKAAAAD0xNVVJQSEVZLU1
CUC01N0YxNVVTRVI=
[exec] Performing NTLM auth challenge
```

- Changing the build target for "test.run" to python2 would likely make it pass

#4 - 11/12/2019 06:40 AM - Luke Murphey

- *Status changed from In Progress to Closed*

- *% Done changed from 50 to 100*