

# Website Monitoring - Task #2337

## Update NTLM libraries

12/04/2018 02:33 AM - Luke Murphey

<b>Status:</b>	In Progress	<b>Start date:</b>	12/15/2021
<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>	2.9.5		
<b>Description</b>			
See:			
<ul style="list-style-type: none"><li>• <a href="https://github.com/requests/requests-ntlm">https://github.com/requests/requests-ntlm</a> (update from 0.2.0 to 1.1.0)</li><li>• <a href="https://github.com/jborean93/ntlm-auth">https://github.com/jborean93/ntlm-auth</a> (update from 1.05 to 1.2.0)</li></ul>			
Update <a href="https://lukemurphey.net/projects/splunk-website-monitoring/wiki/Dependencies">https://lukemurphey.net/projects/splunk-website-monitoring/wiki/Dependencies</a>			
<b>Subtasks:</b>			
Task # 2874: Try new libraries in Linux			<b>Closed</b>
Task # 2875: See if Py2 still works			<b>Closed</b>

### History

#### #1 - 12/04/2018 02:33 AM - Luke Murphey

source: <https://answers.splunk.com/answers/700202/splunk-website-monitoring-app-ntlmv2.html>

#### #2 - 12/04/2018 06:43 AM - Luke Murphey

- requests-ntlm (1.1.0)
  - ntlm-auth (1.2.0)
    - cryptography (1.3+ <https://github.com/pyca/cryptography/blob/master/setup.py>)
      - idna (<https://github.com/kjd/idna>)
      - asn1crypto (<https://github.com/wbond/asn1crypto>)
      - six

#### #3 - 07/16/2019 08:43 PM - Luke Murphey

- Target version deleted (2.7.5)

#### #4 - 12/15/2021 08:43 PM - Luke Murphey

<https://github.com/requests/requests-ntlm/releases> (1.1.0)

- requests>=2.0.0
- ntlm-auth>=1.0.2
- cryptography>=1.3
- flask
- pytest
- pytest-cov
- wheel

<https://github.com/jborean93/ntlm-auth/releases> (1.5.0)

#### #5 - 12/15/2021 09:14 PM - Luke Murphey

The tests don't work when under website\_monitoring\_app.

I moved it to bin and then got this error:

```
test.run_unit:
[exec] Traceback (most recent call last):
[exec]   File "unit.py", line 13, in <module>
[exec]     from web_ping import URLField, DurationField, WebPing, NTLMAuthenticationValueException
[exec]   File "../src/bin/web_ping.py", line 30, in <module>
[exec]     from website_monitoring_app.requests_ntlm import HttpNtlmAuth
[exec]   File "../src/bin/website_monitoring_app/requests_ntlm/__init__.py", line 1, in <module>
[exec]     from .requests_ntlm import HttpNtlmAuth
[exec]   File "../src/bin/website_monitoring_app/requests_ntlm/requests_ntlm.py", line 5, in <module>
[exec]     from cryptography import x509
[exec]   File "../src/bin/cryptography/x509/__init__.py", line 6, in <module>
[exec]     from cryptography.x509 import certificate_transparency
[exec]   File "../src/bin/cryptography/x509/certificate_transparency.py", line 10, in <module>
[exec]     from cryptography.hazmat.bindings._rust import x509 as rust_x509
[exec] ImportError: dlopen("../src/bin/cryptography/hazmat/bindings/_rust.abi3.so, 2): no suitable image found. Did find:
[exec]   file system relative paths not allowed in hardened programs
```

#### #6 - 12/15/2021 09:16 PM - Luke Murphey

Splunk doesn't include cryptography:

```
>>> import cryptography
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ModuleNotFoundError: No module named 'cryptography'
```

#### #7 - 12/15/2021 09:22 PM - Luke Murphey

It works on the venv version of Python.

#### #8 - 12/16/2021 06:20 PM - Luke Murphey

Linux fails too: fails to load the library saying "invalid ELF header".

I bet this is because I built this on Mac.

**#9 - 12/16/2021 07:22 PM - Luke Murphey**

Another error:

```
module not found setuptools_rust
```

<https://github.com/MISP/misp-docker/issues/113>

I installed pip, then installed:

```
pip install setuptools-rust
```

I got a syntax error.

**#10 - 12/16/2021 07:28 PM - Luke Murphey**

This is clearly not working in VirtualBox. I'm giving up on it.

**#11 - 01/01/2022 06:45 AM - Luke Murphey**

I have the test passing with the libraries. Some caveats:

- I might be able to remove duplicates of some libraries which had to be moved:
  - cryptography which had to be moved up to /bin
  - ntlm\_auth which had to be moved up to /bin
  - urllib3 from website\_monitoring to requests/packages/urllib3
- There are two failures and one error; but these are likely due to the test infrastructure not being present
- requests/packages already had several libraries:
  - urllib3 (replaced with the new one)
  - chardet (kept the existing one)
  - idna (now present in both requests/packages and in the website\_monitoring directory)
- I also kept the *init.py* in the requests/packages in case it is still needed

**#12 - 01/01/2022 06:49 AM - Luke Murphey**

App runs successfully.

**#13 - 01/01/2022 06:54 AM - Luke Murphey**

- Status changed from New to In Progress

**#14 - 01/03/2022 08:16 PM - Luke Murphey**

- Target version set to 2.9.5