Website Monitoring - Task #2337

Update NTLM libraries

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

Status:	In Progress	**Start date:**	12/15/2021
Priority:	Normal	**Due date:**	
Assignee:	Luke Murphey	**% Done:**	100%
Category:		**Estimated time:**	0.00 hour
Target version:	2.9.5		

Description

See:

- https://github.com/requests/requests-ntlm (update from 0.2.0 to 1.1.0)
- https://github.com/jborean93/ntlm-auth (update from 1.05 to 1.2.0)

Update https://lukemurphey.net/projects/splunk-website-monitoring/wiki/Dependencies

Subtasks:

Task # 2874: Try new libraries in Linux	**Closed**
Task # 2875: See if Py2 still works	**Closed**

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 f
ound.  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