Pulp - Issue #1228

pic cannot work with self-signed certs on f22+

09/03/2015 03:25 PM - bmbouter

Status:	CLOSED - CURRENTRELEASE	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:	bmbouter	**Estimated time:**	0:00 hour
Category:			
Sprint/Milestone:			
Severity:	2. Medium	**Groomed:**	No
Version:		**Sprint Candidate:**	No
Platform Release:	2.8.0	**Tags:**	Easy Fix, Pulp 2
OS:		**Sprint:**	
Triaged:	Yes	**Quarter:**	

Description

In 2.7.9+ the default SSL verification behavior switched to start validating SSL certs which stops self-signed certs from being trusted. This was done through [PIP 476](#). I was told in #python on Fedora that the default switch occurred in Python 2.7.9+. Fedora 22 is the first OS affected by this bug since it carries 2.7.10. Fedora 21 carries 2.7.8.

When I try to use pic from a Fedora 22 machine to access a Pulp installation with self-signed certificates I cannot use pic. When I make a request I receive the following traceback:

```
Traceback (most recent call last):
  File "<stdin>", line 5, in <module>
  File "/home/bmbouter/Documents/pulp/common/pulp/common/pic.py", line 113, in POST
    return _request('POST', path, body)
  File "/home/bmbouter/Documents/pulp/common/pulp/common/pic.py", line 80, in _request
    headers=_auth_header())
  File "/usr/lib64/python2.7/httplib.py", line 1053, in request
    self._send_request(method, url, body, headers)
  File "/usr/lib64/python2.7/httplib.py", line 1093, in _send_request
    self.endheaders(body)
  File "/usr/lib64/python2.7/httplib.py", line 1049, in endheaders
    self._send_output(message_body)
  File "/usr/lib64/python2.7/httplib.py", line 893, in _send_output
    self.send(msg)
  File "/usr/lib64/python2.7/httplib.py", line 855, in send
    self.connect()
  File "/usr/lib64/python2.7/httplib.py", line 1274, in connect
    server_hostname=server_hostname)
  File "/usr/lib64/python2.7/ssl.py", line 352, in wrap_socket
    _context=self)
  File "/usr/lib64/python2.7/ssl.py", line 579, in __init__
    self.do_handshake()
  File "/usr/lib64/python2.7/ssl.py", line 808, in do_handshake
    self._sslobj.do_handshake()
ssl.SSLError: [SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed (_ssl.c:590)
```

I'll suggest the way to fix this is to introduce an option to connect() called verify_ssl which will default to True. I expect to receive no tracebacks when I call connect() like:

```
pic.connect(verify_ssl=False)
```

Associated revisions

Revision ddc4579f - 09/03/2015 03:37 PM - bmbouter

Adds verify_ssl as an option to pic.common.connect()

closes #1228 https://pulp.plan.io/issues/1228

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History

#1 - 09/03/2015 03:25 PM - bmbouter

- Status changed from NEW to ASSIGNED

- Assignee set to bmbouter

#2 - 09/03/2015 03:40 PM - bmbouter

- Status changed from ASSIGNED to POST

- Tags Easy Fix added

PR available at: https://github.com/pulp/pulp/pull/2022

#3 - 09/03/2015 07:14 PM - bmbouter

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100

Applied in changeset pulp|ddc4579f3b098985ebf76787d57f1764f0abde8a.

#4 - 09/03/2015 08:22 PM - rbarlow

IMO, we should close this bug by deleting PIC. The tool doesn't work
very well in other ways, and there are a few existing tools that do what
it's supposed to do much better. For example:

https://github.com/jkbrzt/httpie

#5 - 09/03/2015 08:27 PM - bmbouter

It's already merged, but I'm ok with deleting pic. I'd like to hear input from some others on this idea. Maybe we could write a docs statement saying
that you can use httpie to interact with the API since Pulp would no longer be offering pic? This was users who don't do much with APIs will have an
idea of what to do.

#6 - 09/04/2015 04:41 PM - mhrivnak

- Triaged changed from No to Yes

#7 - 09/15/2015 02:51 PM - bmbouter

- Platform Release set to master

#8 - 12/02/2015 08:58 PM - mhrivnak

- Platform Release changed from master to 2.8.0

#9 - 02/23/2016 09:55 PM - dkliban@redhat.com

- Status changed from MODIFIED to 5

#10 - 03/23/2016 07:15 PM - dkliban@redhat.com

- Status changed from 5 to CLOSED - CURRENTRELEASE

#11 - 04/15/2019 10:44 PM - bmbouter

- Tags Pulp 2 added