

## Pulp - Issue #2031

### possible incorrect URL param parsing by streamer

06/22/2016 08:29 PM - cduryee

<b>Status:</b>	CLOSED - CURRENTRELEASE	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	jcline@redhat.com	<b>Estimated time:</b>	0:00 hour
<b>Category:</b>		<b>Groomed:</b>	No
<b>Sprint/Milestone:</b>		<b>Sprint Candidate:</b>	No
<b>Severity:</b>	2. Medium	<b>Tags:</b>	Pulp 2
<b>Version:</b>		<b>Sprint:</b>	
<b>Platform Release:</b>	2.8.6	<b>Quarter:</b>	
<b>OS:</b>			
<b>Triaged:</b>	Yes		
<b>Description</b>			
A katello user reported that they got a 403 from pulp from the following url:			
<pre>"GET /streamer/var/lib/pulp/content/distribution/ks-CentOS--7-x86_64/images/pxeboot/vmlinuz?policy=eyJleHRlbnNpb25zIjogeyJyZWlvdGVfaXAiOiAiMTkyLjE2OC4xNC4xMzEifSwgInJlc291cmNlIjogIi9zdHJlYW11ci92YXIVbGliL3B1bHAvY29udGVudC9kaXN0cmliidXRpb24va3MtQ2VudE9TSL03LXg4Nl82NC9pbWFnZXZMvchh1Ym9vdC92bWxpbnV6IiwgImV4cGlyYXRpb24iOiAxNDY1NzgzNTkxfQ==;signature=ANl08fxrFz3mi9J8bf64XGBOBeM3Wal49VDtZPlJvwa2X7ezF6t18jfc7RKRjwWuWxAotT8UMEN4foZqodZogao4HGaqkddkcFAPrZ530jYijf_3P4h8fETImWC2cJkY4Cq0lbNi2tQ96dLe7nEEVioXwN1jYOSm42ZBbKbq3wapTU3bAtnSSzD3Ajf9G4n9KRJ-YZLmuk1DNxsKI0sMdjiGKiWqz7jJXyji7pkMP_QoGAh hudQwsdmVzB9H3BEEqFoXymM0Zl7kqB6sB8Msn-UMPoVyOd1GaJ7Wc-FEs9QQ_CnxgF8xEkaMadM2DbbYRB8R-CUb2NbvH2WRZ IPQ== HTTP/1.1" 403 287 "-" "iPXE/1.0.0 (c4bce43)"</pre>			
associated stack trace is:			
<pre>[Mon Jun 13 14:05:02.378815 2016] [:error] [pid 2701] [client 192.168.14.131:22683] Traceback (most recent call last): [Mon Jun 13 14:05:02.378860 2016] [:error] [pid 2701] [client 192.168.14.131:22683] File "/usr/share/pulp/wsgi/streamer_auth.wsgi", line 36, in allow_access [Mon Jun 13 14:05:02.378996 2016] [:error] [pid 2701] [client 192.168.14.131:22683] url.validate(key, remote_ip=remote_ip) [Mon Jun 13 14:05:02.379032 2016] [:error] [pid 2701] [client 192.168.14.131:22683] File "/usr/lib/python2.7/site-packages/pulp/server/lazy/url.py", line 587, in validate [Mon Jun 13 14:05:02.379288 2016] [:error] [pid 2701] [client 192.168.14.131:22683] policy, signature = self.bundle [Mon Jun 13 14:05:02.379319 2016] [:error] [pid 2701] [client 192.168.14.131:22683] File "/usr/lib/python2.7/site-packages/pulp/server/lazy/url.py", line 565, in bundle [Mon Jun 13 14:05:02.379364 2016] [:error] [pid 2701] [client 192.168.14.131:22683] query = Query.decode(self.content.query) [Mon Jun 13 14:05:02.379433 2016] [:error] [pid 2701] [client 192.168.14.131:22683] File "/usr/lib/python2.7/site-packages/pulp/server/lazy/url.py", line 363, in decode [Mon Jun 13 14:05:02.379475 2016] [:error] [pid 2701] [client 192.168.14.131:22683] k, v = pair.split('=') [Mon Jun 13 14:05:02.379500 2016] [:error] [pid 2701] [client 192.168.14.131:22683] ValueError: too many values to unpack</pre>			
It appears that pair.split() is finding more equals signs than it expects, and can't fill in (k,v).			
This is related to <a href="http://projects.theforeman.org/issues/15128#note-4">http://projects.theforeman.org/issues/15128#note-4</a> .			
<b>Related issues:</b>			
Related to Packaging - Task #2083: Issues common to 2.9.1 and 2.8 stream		<b>CLOSED - NOT A BUG</b>	

#### Associated revisions

Revision 9bf5a56e - 07/05/2016 03:42 PM - Jeremy Cline

Handle queries containing base64 padding gracefully

The lazy URL parser does not work with base64-encoded queries containing padding ('='). It's worth investigating why the standard library parser isn't used, but this is an easy fix for the immediate future.

closes #2031

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### History

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#### #1 - 06/22/2016 08:29 PM - cduryee

- Description updated

#### #2 - 06/22/2016 08:30 PM - cduryee

- Description updated

#### #3 - 06/22/2016 09:16 PM - jcline@redhat.com

- Status changed from NEW to ASSIGNED

- Assignee set to jcline@redhat.com

While I poked around to make sure this was a Python bug I figured out exactly why it was crashing and burning so I'm just going to fix it right now.

#### #4 - 06/22/2016 09:29 PM - jcline@redhat.com

- Status changed from ASSIGNED to POST

<https://github.com/pulp/pulp/pull/2614>

#### #5 - 06/22/2016 10:00 PM - jcline@redhat.com

To reproduce this issue, you can curl the path in the issue. It will still get a 403, but there won't be a traceback:

1.

```
curl -v 'http://localhost/streamer/var/lib/pulp/content/distribution/ks-CentOS--7-x86_64/images/pxeboot/vmlinuz?policy=eyJleHRlbnNpb25zIjogeyJyZWlvdGVfaXAiOiAiMTkyLjE2OC4xNC4xMzEiLCJlcmNlIjojogIi9zdHJlYW11ci92YXIVbG1iL3B1bHAvY29udGVudC9kaXN0cmliidXRpb24va3MtQ2VudE9TLS03LXg4N182NC9pbWFnZXMvcHh1Ym9vdC92bWxpbmV6IiwgImV4cGlyYXJpb24iOiAxNDY1NzgzNTkxfQ==;signature=ANlO8fXrFZ3mi9J8bf64XGBOBeM3Wal49VDtZPlJvwpa2X7ezF6t18jfc7RKRjwWuWxAotT8UMEKn4foZqodZogao4HGaqkddkcFAPrZ530jYijF_3P4h8fETImWC2cJkY4Cq01bNi2tQ96dLe7nEEVioXwN1jY0sm42ZBbKbq3wapTU3bAtnSSzD3Ajf9G4n9KRJ-YZLmuk1DNxsKI0sMdjiGKiWqz7jJXyji7pkMP_QoGAhhudQwsdmVzB9H3BEEqFoXYmM0Zl7kqB6sB8Msn-UMPoVyOd1GaJ7Wc-FEs9QQ_CnxgF8xEkaMadM2DbbYRB8R-CUb2NbvH2WRZIPQ=='
```

2. Check /var/log/httpd/error\_log and see the traceback from the issue description

3. Apply the fix

4. Repeat 1

5. Check /var/log/httpd/error\_log and note there's a denial for the request, but there's no traceback (the signature check is failing).

Alternately, request content that needs to be lazily fetched until you luck out and get a url that's got padding ('=' at the end of the policy or signature)

#### #6 - 06/24/2016 04:22 PM - amacdona@redhat.com

- Triaged changed from No to Yes

#### #8 - 07/05/2016 03:44 PM - Anonymous

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100

Applied in changeset [pulp/9bf5a56e60b0be96862b75c934f79ba12eed3e6c](https://github.com/pulp/pulp/pull/2614).

#### #9 - 07/11/2016 03:54 PM - semyers

- Platform Release set to 2.8.6

**#10 - 07/12/2016 10:01 PM - semyers**

- Status changed from MODIFIED to 5

**#11 - 07/18/2016 09:21 PM - semyers**

- Status changed from 5 to CLOSED - CURRENTRELEASE

**#12 - 07/19/2016 09:00 PM - semyers**

- Related to Task #2083: Issues common to 2.9.1 and 2.8 stream added

**#14 - 04/15/2019 10:28 PM - bmbouter**

- Tags Pulp 2 added