

Pulp - Issue #2414

`ImproperlyConfigured` exception in for detail list view endpoint

11/10/2016 08:14 PM - amacdona@redhat.com

Status: CLOSED - NOTABUG	Start date:
Priority: Normal	Due date:
Assignee:	Estimated time: 0:00 hour
Category:	
Sprint/Milestone: 3.0	
Severity: 2. Medium	Sprint Candidate: No
Version:	Tags:
Platform Release:	QA Contact:
Blocks Release:	Complexity:
OS:	Smash Test:
Backwards Incompatible: No	Verified: No
Triaged: Yes	Verification Required: No
Groomed: No	Sprint:

Description

`HyperlinkedRelatedField` for detail list views are passed incorrect `view_names`.

As an example, this should be the most simple working detail importer serializer possible:

```
class TestImporterSerializer(ImporterSerializer):
    # _href is provided by the base class, which is a subclass of `MasterModelSerializer`

    class Meta:
        model = TestImporter
        fields = ImporterSerializer.Meta.fields
```

This creates the following error from Django (viewed from the browsable web API):

```
ImproperlyConfigured at /api/v3/importers/test/

Could not resolve URL for hyperlinked relationship using view name "testimporter-detail". You may
have failed to include the related model in your API, or incorrectly configured the `lookup_field`
attribute on this field.
```

Request Method: GET
Request URL: http://192.168.121.160:8000/api/v3/importers/test/
Django Version: 1.8.16
Exception Type: ImproperlyConfigured
Exception Value:

```
Could not resolve URL for hyperlinked relationship using view name "testimporter-detail". You may
have failed to include the related model in your API, or incorrectly configured the `lookup_field`
attribute on this field.
```

Exception Location: /usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_
framework/relations.py in to_representation, line 386
Python Executable: /home/vagrant/.virtualenvs/pulp/bin/python
Python Version: 3.5.2
Python Path:

```
['/home/vagrant/devel/pulp/app/pulp/app',
 '/home/vagrant/.virtualenvs/pulp/lib64/python35.zip',
 '/home/vagrant/.virtualenvs/pulp/lib64/python3.5',
 '/home/vagrant/.virtualenvs/pulp/lib64/python3.5/plat-linux',
 '/home/vagrant/.virtualenvs/pulp/lib64/python3.5/lib-dynload',
 '/usr/lib64/python3.5',
 '/usr/lib/python3.5',
 '/home/vagrant/.virtualenvs/pulp/lib/python3.5/site-packages',
 '/home/vagrant/devel/devel/pulp-dev',
 '/home/vagrant/devel/pulp/app',
 '/usr/lib/python3.5/site-packages/psycogp2-2.6.2-py3.5-linux-x86_64.egg',
 '/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg',
 '/usr/lib/python3.5/site-packages/django_filter-0.15.3-py3.5.egg',
 '/usr/lib/python3.5/site-packages/django_extensions-1.7.4-py3.5.egg',
 '/usr/lib/python3.5/site-packages/django_crispy_forms-1.6.1-py3.5.egg',
 '/usr/lib/python3.5/site-packages/Django-1.8.16-py3.5.egg',
 '/usr/lib/python3.5/site-packages/coreapi-2.0.9-py3.5.egg',
 '/usr/lib/python3.5/site-packages/celery-4.0.0-py3.5.egg',
 '/usr/lib/python3.5/site-packages/uritemplate-3.0.0-py3.5.egg',
 '/usr/lib/python3.5/site-packages/itypes-1.1.0-py3.5.egg',
 '/usr/lib/python3.5/site-packages/kombu-4.0.0-py3.5.egg',
 '/usr/lib/python3.5/site-packages/billiard-3.5.0.2-py3.5.egg',
 '/usr/lib/python3.5/site-packages/pytz-2016.7-py3.5.egg',
 '/usr/lib/python3.5/site-packages/amqp-2.1.1-py3.5.egg',
 '/usr/lib/python3.5/site-packages/vine-1.1.3-py3.5.egg',
 '/home/vagrant/devel/pulp/plugin',
 '/home/vagrant/devel/pulp/exceptions',
 '/home/vagrant/devel/pulp/client_lib',
 '/home/vagrant/devel/pulp/common',
 '/home/vagrant/devel/pulp/client_consumer',
 '/home/vagrant/devel/pulp/devel',
 '/home/vagrant/devel/pulp/server',
 '/home/vagrant/devel/pulp/bindings',
 '/home/vagrant/devel/pulp/client_admin',
 '/home/vagrant/devel/pulp/streamer',
 '/usr/lib/python3.5/site-packages/Twisted-16.5.0-py3.5-linux-x86_64.egg',
 '/home/vagrant/devel/pulp/repoauth',
 '/home/vagrant/devel/pulp/oid_validation',
 '/home/vagrant/devel/pulp/tasking',
 '/usr/lib64/python3.5/site-packages',
 '/usr/lib/python3.5/site-packages',
 '/usr/lib/python3.5/site-packages',
 '/home/vagrant/devel/pulp']
```

Server time: Thu, 10 Nov 2016 19:16:43 +0000

This is the traceback from the server:

Traceback (most recent call last):

```
File "/usr/lib/python3.5/site-packages/Django-1.8.16-py3.5.egg/django/core/handlers/base.py", line 132, in get_response
    response = wrapped_callback(request, *callback_args, **callback_kwargs)
File "/usr/lib/python3.5/site-packages/Django-1.8.16-py3.5.egg/django/views/decorators/csrf.py", line 58, in wrapped_view
    return view_func(*args, **kwargs)
File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/viewsets.py", line 83, in view
    return self.dispatch(request, *args, **kwargs)
File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/views.py", line 477, in dispatch
    response = self.handle_exception(exc)
File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/views.py",
```

```

py", line 437, in handle_exception
    self.raise_uncaught_exception(exc)
  File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/views.py", line 474, in dispatch
    response = handler(request, *args, **kwargs)
  File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/mixins.py", line 45, in list
    return self.get_paginated_response(serializer.data)
  File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/serializers.py", line 725, in data
    ret = super(ListSerializer, self).data
  File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/serializers.py", line 262, in data
    self._data = self.to_representation(self.instance)
  File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/serializers.py", line 643, in to_representation
    self.child.to_representation(item) for item in iterable
  File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/serializers.py", line 643, in <listcomp>
    self.child.to_representation(item) for item in iterable
  File "/home/vagrant/devel/pulp/app/pulp/app/serializers/base.py", line 187, in to_representation
    ret[field.field_name] = field.to_representation(attribute)
  File "/usr/lib/python3.5/site-packages/djangorestframework-3.5.3-py3.5.egg/rest_framework/relations.py", line 386, in to_representation
    raise ImproperlyConfigured(msg % self.view_name)
django.core.exceptions.ImproperlyConfigured: Could not resolve URL for hyperlinked relationship using view name "importers-detail". You may have failed to include the related model in your API, or incorrectly configured the `lookup_field` attribute on this field.

```

The problem is that the `view_name` being passed to the `HyperlinkedRelatedField` is `'testimporter-detail'`, which does not exist. What should be created is `'<master_names>-<detail_name>-detail'`, which in this example would be `importers-test-detail`.

There is a workaround, the plugin writer just needs to override `href` with the correct `view_name`, but this isn't ideal and should be handled by the base class.

```

class TestImporterSerializer(ImporterSerializer):
    href = serializers.HyperlinkedIdentityField(view_name='importers-test-detail')

    class Meta:
        model = TestImporter
        fields = ImporterSerializer.Meta.fields

```

History

#1 - 11/10/2016 08:17 PM - amacdona@redhat.com

- Description updated

#2 - 11/11/2016 08:40 PM - dkliban@redhat.com

- Blocked by Task #2325: Distribute Pulp with Pulp added

#3 - 11/11/2016 08:40 PM - dkliban@redhat.com

- Blocked by deleted (Task #2325: Distribute Pulp with Pulp)

#4 - 11/15/2016 06:57 PM - bizhang

- Groomed changed from No to Yes

- Tags Pulp 3 added

#5 - 11/15/2016 07:02 PM - bizhang

- *Triaged changed from No to Yes*
- *Groomed changed from Yes to No*

#6 - 07/13/2017 02:14 PM - amacdona@redhat.com

- *Status changed from NEW to CLOSED - NOTABUG*

#7 - 04/15/2019 07:47 AM - Connihington

Exception in for detail list view endpoint is the point which is seriously given in this blog. Such blogs are always ideal just because of [write my dissertation](#) given points. I would love to share the value of this blog.

#8 - 04/24/2019 12:01 PM - Alberills

When i join this blog reading profession i don't know the importance of this profession but when i [come to fruition](#) site and read the articles then i got the true meaning of it.

#9 - 04/25/2019 06:47 PM - daviddavis

- *Sprint/Milestone set to 3.0*

#10 - 04/26/2019 10:39 PM - bmbouter

- *Tags deleted (Pulp 3)*

#11 - 11/13/2019 09:52 AM - Ice111

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