

Migration Plugin - Issue #7846

null value in column "stream" violates not-null constraint during migration on Katello

11/17/2020 07:35 PM - iballou

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:	dalley	Estimated time:	0:00 hour
Category:		Sprint Candidate:	No
Sprint/Milestone:	0.7.0	Tags:	Katello
Severity:	2. Medium	Sprint:	Sprint 88
Platform Release:		Quarter:	
OS:			
Triaged:	No		
Groomed:	No		

Description

A Katello user is experiencing errors when migrating to Pulp 3:

<https://community.theforeman.org/t/katello-3-17-upgrade-issues/21262>

Running "foreman-maintain advanced procedure run content-prepare" produces the following error

```
Running ForemanMaintain::Scenario
```

```
Prepare content for Pulp 3: [FAIL]
```

```
Failed executing foreman-rake katello:pulp3_migration, exit status 1:
```

```
Rubocop not loaded.
```

```
Migration failed, You will want to investigate: https://FQDN/foreman_tasks/tasks/b57d7a70-bbel-46b2-beaf-fa627bcf02cd
```

```
rake aborted!
```

```
ForemanTasks::TaskError: Task b57d7a70-bbel-46b2-beaf-fa627bcf02cd: Katello::Errors::Pulp3Error: null value in column "stream" violates not-null constraint
```

```
DETAIL: Failing row contains (ff6ac58a-cc9e-48f4-bfde-05a6e04fdb29, 2020-11-12 22:57:58.425104+00, 2020-11-12 22:57:58.425113+00, 389-directory-server, null, {"stable": ["default"], "testing": ["default"]}, 015ae06403a7d0318bb78bdf560d3616bb11369161ffaa7bd2eb658aae5c2764, 1-Red_Hat_Enterprise_Linux_8_x86_64-v5_0-18c3ae48-ca68-4b4e-b396..., 7746a071-6587-44a3-8082-b75641a9aa64).
```

```
/opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.17.0/lib/katello/tasks/pulp3_migration.rake:17:in `block (2 levels) in <top (required)>'
```

```
/opt/rh/rh-ruby25/root/usr/share/gems/gems/rake-12.3.0/exe/rake:27:in `<top (required)>'
```

```
Tasks: TOP => katello:pulp3_migration
```

```
(See full trace by running task with --trace)
```

```
Scenario [ForemanMaintain::Scenario] failed.
```

The following steps ended up in failing state:

```
[content-prepare]
```

Resolve the failed steps and rerun

the command. In case the failures are false positives, use `--whitelist="content-prepare"`

Running the command a second time produces the following message:

```
Running ForemanMaintain::Scenario
```

```
Prepare content for Pulp 3: [FAIL]
```

```
Failed executing foreman-rake katello:pulp3_migration, exit status 1:
```

```
Rubocop not loaded.
```

```
Migration failed, You will want to investigate: https://FQDN/foreman_tasks/tasks/b3afcbc8-db69-4580-97aa-148572c11851
```

```
rake aborted!
ForemanTasks::TaskError: Task b3afcbc8-db69-4580-97aa-148572c11851: Katello::Errors::Pulp3Error: _
_init__() got an unexpected keyword argument 'box_settings'
/opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.17.0/lib/katello/tasks/pulp3_migration.rake
:17:in `block (2 levels) in <top (required)>'
/opt/rh/rh-ruby25/root/usr/share/gems/gems/rake-12.3.0/exe/rake:27:in `<top (required)>'
Tasks: TOP => katello:pulp3_migration
(See full trace by running task with --trace)
-----
Scenario [ForemanMaintain::Scenario] failed.

The following steps ended up in failing state:

 [content-prepare]

Resolve the failed steps and rerun
the command. In case the failures are false positives,
use --whitelist="content-prepare"
```

Associated revisions

Revision e51d319a - 01/19/2021 10:04 PM - dalley

Fix null value in column "stream" error

closes: #7846 <https://pulp.plan.io/issues/7846>

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Revision e51d319a - 01/19/2021 10:04 PM - dalley

Fix null value in column "stream" error

closes: #7846 <https://pulp.plan.io/issues/7846>

History

#1 - 11/17/2020 08:34 PM - iballou

pulp-2to3-migration (0.5.0) pulp-certguard (1.0.2) pulp-container (2.0.1) pulp-file (1.2.0) pulp-rpm (3.6.2) pulpcore (3.6.3)

#2 - 12/01/2020 12:55 PM - ttereshc

According to the forum post, the issue is likely for the pre-migration of the modulemd-defaults. The modulemd pre-migration finished successfully.

#3 - 01/08/2021 06:29 PM - ttereshc

- Project changed from Migration Plugin to RPM Support

It looks to me that pulp_rpm doesn't support null value for the stream field for module-defaults.

https://github.com/pulp/pulp_rpm/blob/master/pulp_rpm/app/models/modulemd.py#L74

The spec says that the stream is optional https://github.com/fedora-modularity/libmodulemd/blob/main/yaml_specs/modulemd_defaults_v1.yaml#L15

#4 - 01/08/2021 07:00 PM - ttereshc

Profiles are optional as well, only module name is mandatory.

#5 - 01/11/2021 04:00 PM - iballou

If anyone is curious, here are the repositories that one user was syncing from when they hit this issue. It seems like the module streams related to EPEL were the problem.

NAME	PRODUCT	CONTENT TYPE	URL

Alienvault-Agent-CentOS-7 aws.com/repo/rpm/x86_64/ CandlePin	Binary Defense	yum	s://prod-usm-saas-agent-config.s3.amazon
ases/yum/3.14/candlepin/el7/x86_64/ CentOS-7-base	Foreman-Katello	yum	s://fedorapeople.org/groups/katello/rele
CentOS-7-extras	CentOS	yum	://mirror.centos.org/centos/7/os/x86_64/
_64/ CentOS-7-SCLo-rh	CentOS	yum	://mirror.centos.org/centos/7/extras/x86
4/rh/ CentOS-7-updates	CentOS	yum	://mirror.centos.org/centos/7/sclo/x86_6
6_64/ CentOS-8-Appstream	CentOS	yum	://mirror.centos.org/centos/7/updates/x8
m/x86_64/os/ CentOS-8-base	CentOS	yum	://mirror.centos.org/centos-8/8/AppStrea
CentOS-8-extras	CentOS	yum	://mirror.centos.org/centos-8/8/BaseOS/x
86_64/os/ CentOS-8-extras	CentOS	yum	://mirror.centos.org/centos-8/8/Extras/x
86_64/os/ CentOS-8-PowerTools	CentOS	yum	://mirror.centos.org/centos-8/8/PowerToo
ls/x86_64/os/ Cisco_AMP_7	Cisco_amp	yum	://katello.cohen.cpa/pub/custom_repo/cis
co_amp Cisco Amp CentOS 7	File Based Products	file	
Docker repo	Docker	yum	s://download.docker.com/linux/centos/7/x
86_64/stable	DUO	yum	s://pkg.duosecurity.com/CentOS/7/x86_64
DUO_Security-CentOS-7	DUO	yum	s://pkg.duosecurity.com/CentOS/8/x86_64
DUO_Security-CentOS-8	EPEL-7	yum	://dl.fedoraproject.org/pub/epel/7//x86_
EPEL-7	EPEL-8	yum	s://dl.fedoraproject.org/pub/epel/8/Ever
64/ EPEL-8	EPEL-8-modular	yum	s://dl.fedoraproject.org/pub/epel/8/Modu
anything/x86_64 EPEL-8-modular	Foreman	yum	s://yum.theforeman.org/releases/1.24/el7
lar/x86_64 Foreman	Foreman Client EL7	yum	s://yum.theforeman.org/client/1.24/el7/x
/x86_64 Foreman Client EL7	Foreman-Plugins	yum	s://yum.theforeman.org/plugins/1.24/el7/
86_64 Foreman-Plugins	grafana	yum	s://packages.grafana.com/oss/rpm
x86_64 grafana	Jenkins-RH-Stable	yum	://pkg.jenkins.io/redhat-stable
Jenkins-RH-Stable	Katello	yum	s://fedorapeople.org/groups/katello/rele
Katello	MySQL_8_CommunityServer_el7	yum	://repo.mysql.com/yum/mysql-8.0-communit
ases/yum/3.14/katello/el7/x86_64/ MySQL_8_CommunityServer_el7	MySQL_CommunityConnectors_el7	yum	://repo.mysql.com/yum/mysql-connectors-c
MySQL_8_CommunityServer_el7	MySQL_CommunityTools_el7	yum	://repo.mysql.com/yum/mysql-tools-commun
MySQL_CommunityConnectors_el7	NGINX_7	yum	://nginx.org/packages/centos/7/x86_64/
community/el7/x86_64/ MySQL_CommunityTools_el7	NGINX_8	yum	://nginx.org/packages/centos/8/x86_64/
ity/el7/x86_64/ NGINX_7	NodeSource_7_v10	yum	s://rpm.nodesource.com/pub_10.x/el7/x86
NGINX_7	NodeSource_7_v12	yum	s://rpm.nodesource.com/pub_12.x/el7/x86
NGINX_8	NodeSource_7_v14	yum	s://rpm.nodesource.com/pub_14.x/el7/x86
NodeSource_7_v10	NodeSource_8_v10	yum	s://rpm.nodesource.com/pub_10.x/el8/x86
_64/ NodeSource_7_v12	NodeSource_8_v12	yum	s://rpm.nodesource.com/pub_12.x/el8/x86
_64/ NodeSource_7_v14	NodeSource_8_v14	yum	s://rpm.nodesource.com/pub_14.x/el8/x86
_64/ NodeSource_8_v10	Packages-7	yum	s://packages.microsoft.com/rhel/7/prod/
_64/ NodeSource_8_v12	pulp-2	yum	s://repos.fedorapeople.org/repos/pulp/pu
_64/ NodeSource_8_v14	Puppet-6-CentOS-7	yum	://yum.puppetlabs.com/puppet6/el7/x86_6
_64/ Packages-7			
pulp-2			
lp/stable/2/7/x86_64			
Puppet-6-CentOS-7			

```
4
Puppet-6-CentOS-8          | Puppet          | yum          | ://yum.puppetlabs.com/puppet/el/8/x86_64
zabbix_official_el7       | Zabbix          | yum          | ://repo.zabbix.com/zabbix/5.0/rhel/7/x86_64/
```

#6 - 01/14/2021 06:24 PM - ipanova@redhat.com

```
In [7]: Pulp2ModulemdDefaults(module='test2', profiles={}, pulp2content_id=p.pk, stream=None).save()
```

```
-----
NotNullViolation                                Traceback (most recent call last)
/usr/local/lib/pulp/lib64/python3.6/site-packages/django/db/backends/utils.py in _execute(self, sql, params, *
ignored_wrapper_args)
     83         else:
---> 84         return self.cursor.execute(sql, params)
     85
```

NotNullViolation: null value in column "stream" violates not-null constraint

DETAIL: Failing row contains (bf6e5ab5-5b32-4eb1-a524-cac7266ceaa5, 2021-01-14 17:16:43.607299+00, 2021-01-14 17:16:43.607354+00, test2, null, {}, , , 0329f8c7-e75b-4eb6-b39d-542ff6be7bc8).

We need to fix this line https://github.com/pulp/pulp-2to3-migration/blob/master/pulp_2to3_migration/app/plugin/rpm/pulp_2to3_models.py#L665

As mentioned previously, we should also fix profiles, since they are optional but seems like we require them.

```
In [8]: Pulp2ModulemdDefaults(module='test2', pulp2content_id=p.pk).save()
```

```
-----
NotNullViolation                                Traceback (most recent call last)
/usr/local/lib/pulp/lib64/python3.6/site-packages/django/db/backends/utils.py in _execute(self, sql, params, *
ignored_wrapper_args)
     83         else:
---> 84         return self.cursor.execute(sql, params)
     85
```

NotNullViolation: null value in column "profiles" violates not-null constraint

DETAIL: Failing row contains (80f2125a-b790-4de7-8ab1-98ef7362a636, 2021-01-14 17:23:34.868795+00, 2021-01-14 17:23:34.868838+00, test2, , null, , , 0329f8c7-e75b-4eb6-b39d-542ff6be7bc8).

In pulp3 modules and defaults are saved without troubles without 'stream' unless explicitly sending stream=None

```
In [12]: Modulemd(name='bar1').save()
```

```
In [14]: ModulemdDefaults(stream='bar1', digest=12344).save()
```

```
In [15]:
```

#7 - 01/14/2021 06:29 PM - ipanova@redhat.com

While we are at it, dependencies for Modules are optional also

https://github.com/pulp/pulp-2to3-migration/blob/master/pulp_2to3_migration/app/plugin/rpm/pulp_2to3_models.py#L590

#8 - 01/14/2021 06:31 PM - ipanova@redhat.com

- Project changed from RPM Support to Migration Plugin

#9 - 01/18/2021 06:46 PM - dalley

- Status changed from NEW to ASSIGNED

- Assignee set to dalley

#10 - 01/19/2021 07:46 PM - dalley

- Status changed from ASSIGNED to POST

- Sprint set to Sprint 88

#11 - 01/19/2021 08:16 PM - ttereshc

- Sprint/Milestone set to 0.9.0

#12 - 01/19/2021 10:04 PM - dalley

- Status changed from POST to MODIFIED

Applied in changeset [pulp:pulp-2to3-migration|e51d319aaa3b1034138b4178d964331529e548a](#).

#13 - 01/22/2021 09:20 PM - ttereshc

- *Sprint/Milestone changed from 0.9.0 to 0.7.0*

#14 - 02/04/2021 12:39 PM - pulpbot

- *Status changed from MODIFIED to CLOSED - CURRENTRELEASE*