Foreman - Feature #17824

multiple identical database entries on table locations_organizations

12/22/2016 01:59 AM - Eileen Gray

Status:	Rejected		
Priority:	Normal		
Assignee:			
Category:	Organizations and Locations		
Target version:			
Difficulty:		**Fixed in Releases:**	
Triaged:		**Found in Releases:**	
Bugzilla link:		**Red Hat JIRA:**	
Pull request:			

Description

We would like to use a galera replication cluster as database backend. Replication for tables without primary key is not supported.

Therefore we created (among others) a composite key on the table locations_organizations. We tried to create a new organization/location assignment and got a a duplicate key error.

After that we undid our change (dropped this primary key), emptied the table locations_organizations, recreated the same organization/location assignment and examined the table: Two identical entries were created.

location_id	organization_id
3	5
3	5

History

#1 - 12/22/2016 04:12 AM - Dominic Cleal

- Category set to Organizations and Locations

#2 - 01/06/2017 08:59 AM - Karlis Melderis

I can extend this list of what I get when I tried to enable PostgreSQL BDR for foreman database
Seems like lot of tables are created without primary key.

WARNING: Table public.operatingsystems_ptables has no PRIMARY KEY
HINT: Tables without a PRIMARY KEY cannot be UPDATEd or DELETEd from, only INSERTed into. Add a PRIMARY KEY.
WARNING: Table public.architectures_operatingsystems has no PRIMARY KEY
HINT: Tables without a PRIMARY KEY cannot be UPDATEd or DELETEd from, only INSERTed into. Add a PRIMARY KEY.
WARNING: Table public.schema_migrations has no PRIMARY KEY
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WARNING: Table public.media_operatingsystems has no PRIMARY KEY
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WARNING: Table public.foreman_tasks_tasks has no PRIMARY KEY
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WARNING: Table public.katello_environment_priors has no PRIMARY KEY
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WARNING: Table public.operatingsystems_provisioning_templates has no PRIMARY KEY
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WARNING: Table public.dynflow_schema_info has no PRIMARY KEY
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WARNING: Table public.katello_content_view_filters_repositories has no PRIMARY KEY
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WARNING: Table public.operatingsystems_puppetclasses has no PRIMARY KEY
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WARNING: Table public.locations_organizations has no PRIMARY KEY
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Eileen Gray wrote:

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#3 - 01/06/2017 10:45 AM - Karlis Melderis

This is what I added in postgreSQL but couldn't replicate same duplicate issue

ALTER TABLE foreman_tasks_tasks ADD PRIMARY KEY (id);
ALTER TABLE operatingsystems_ptables ADD PRIMARY KEY (ptable_id);
ALTER TABLE architectures_operatingsystems ADD PRIMARY KEY (architecture_id, operatingsystem_id);
ALTER TABLE schema_migrations ADD PRIMARY KEY (version);
ALTER TABLE media_operatingsystems ADD PRIMARY KEY (medium_id, operatingsystem_id);
ALTER TABLE katello_environment_priors ADD PRIMARY KEY (environment_id, prior_id);
ALTER TABLE operatingsystems_provisioning_templates ADD PRIMARY KEY (provisioning_template_id, operatingsystem_id);
ALTER TABLE dynflow_schema_info ADD PRIMARY KEY (version);
ALTER TABLE dynflow_delayed_plans ADD PRIMARY KEY (execution_plan_uuid);
ALTER TABLE katello_content_view_filters_repositories ADD PRIMARY KEY (content_view_filter_id, repository_id);
ALTER TABLE features_smart_proxies ADD PRIMARY KEY (smart_proxy_id,feature_id);
ALTER TABLE operatingsystems_puppetclasses ADD PRIMARY KEY (puppetclass_id, operatingsystem_id);
ALTER TABLE locations_organizations ADD PRIMARY KEY (location_id, organization_id);

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> location_id   organization_id

```
3       5
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```

#4 - 01/10/2017 05:11 AM - Eileen Gray

yes, we also noticed that there are multiple tables without primary key. We assumed a composite key would do no harm, since it would consist of all the columns of the table. The table locations_organizations was the first table to test for problems and we unexpectedly got this duplicate key error when connecting an existing organization and an existing location.

For further investigation I now deleted not only the location/organization connection as above (emptied the locations_organizations table), but also deleted the organization and location. I recreated the organization and location and connected the both. This time no duplicate entries were created.

Sorry, I don't know what went wrong the first time, but thanks for looking into this. I suppose this issue can be rejected as not reproducible.

#5 - 01/10/2017 05:20 AM - Dominic Cleal

- Status changed from New to Rejected

#6 - 01/12/2017 05:34 AM - Karlis Melderis

I don't think it's good to close the case.

Everyone would benefit if primary keys will get added to all tables by default.
aka no tweaks to work with galera.

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