

Foreman - Bug #29429

Dynflow tables are tried to migrate in parallel

03/28/2020 04:46 PM - Anonymous

Status:	Closed	
Priority:	Normal	
Assignee:	Adam Ruzicka	
Category:	DB migrations	
Target version:		
Difficulty:		Fixed in Releases: 2.1.0
Triaged:	No	Found in Releases: Nightly
Bugzilla link:		Red Hat JIRA:
Pull request:	https://github.com/theforeman/foreman/pull/7593 , https://github.com/Dynflow/dynflow/pull/353	

Description

Suspicion: dynflow tries to migrate the tables when it boots up. Maybe dynflow tries to migrate the db several times at once from different puma workers

Examples:

- CentOS 7:

```
/opt/theforeman/tfm/root/usr/share/gems/gems/sequel-5.7.1/lib/sequel/adapters/postgres.rb:146:
in `async_exec': PG::UniqueViolation: ERROR: duplicate key value violates unique constraint "
pg_type_typname_nsp_index" (Sequel::UniqueConstraintViolation)
DETAIL: Key (typename, typnamespace)=(dynflow_schema_info, 2200) already exists.
```

- Ubuntu 18.04:

```
dynflow-sidekiq@orchestrator[8451]: More than 1 row in migrator table
dynflow-sidekiq@orchestrator[8451]: /usr/share/foreman/vendor/ruby/2.5.0/gems/sequel-5.30.0/li
b/sequel/extensions/migration.rb:620:in `schema_dataset'
dynflow-sidekiq@orchestrator[8451]: /usr/share/foreman/vendor/ruby/2.5.0/gems/sequel-5.30.0/li
b/sequel/extensions/migration.rb:455:in `initialize'
dynflow-sidekiq@orchestrator[8451]: /usr/share/foreman/vendor/ruby/2.5.0/gems/sequel-5.30.0/li
b/sequel/extensions/migration.rb:519:in `initialize'
dynflow-sidekiq@orchestrator[8451]: /usr/share/foreman/vendor/ruby/2.5.0/gems/sequel-5.30.0/li
b/sequel/extensions/migration.rb:402:in `new'
dynflow-sidekiq@orchestrator[8451]: /usr/share/foreman/vendor/ruby/2.5.0/gems/sequel-5.30.0/li
b/sequel/extensions/migration.rb:402:in `run'
dynflow-sidekiq@orchestrator[8451]: /usr/share/foreman/vendor/ruby/2.5.0/gems/dynflow-1.4.3/li
b/dynflow/persistence_adapters/sequel.rb:263:in `migrate_db'
```

Associated revisions

Revision 7a3d995c - 05/11/2020 10:52 AM - Adam Ruzicka

Fixes #29429 - Provide rake tasks for Dynflow migrations

Historically Dynflow tried to migrate its database on startup. This became an issue with the move to Puma, because multiple instance of Dynflow running in separate Puma workers would try to migrate the database concurrently and the workers would die because of unique key validation errors.

This change adds `dynflow:abort_if_pending_migrations` rake task for checking if the Dynflow database is fully migrated. It also extends the `db:migrate` and

db:abort_if_pending_migrations to run their Dynflow counterparts as well.

Revision 7378af98 - 05/11/2020 10:52 AM - Adam Ruzicka

Fixes #29429 - Bump dependency on Dynflow

History

#1 - 03/31/2020 12:16 PM - Ewoud Kohl van Wijngaarden

One solution is to create rake tasks to do this and let the installer handle it. For the regular DB it uses two tasks (db:migrate and db:abort_if_pending_migrations) to indicate whether a migration is needed and to actually migrate. This provides idempotency.

#2 - 04/17/2020 09:07 AM - The Foreman Bot

- Assignee set to Adam Ruzicka
- Status changed from New to Ready For Testing
- Pull request <https://github.com/foreman/foreman/pull/7593> added

#3 - 04/17/2020 12:22 PM - Adam Ruzicka

- Category deleted (DB migrations)
- Pull request <https://github.com/Dynflow/dynflow/pull/353> added

#4 - 05/11/2020 10:52 AM - The Foreman Bot

- Fixed in Releases 2.2.0 added

#5 - 05/11/2020 11:01 AM - Adam Ruzicka

- Status changed from Ready For Testing to Closed

Applied in changeset [7a3d995cc2fe6e84ad25f487476e39dc0ed96415](#).

#6 - 05/12/2020 06:41 AM - Tomer Brisker

- Fixed in Releases 2.1.0 added
- Fixed in Releases deleted (2.2.0)

#7 - 05/13/2020 02:44 PM - Amit Upadhye

- Category set to DB migrations