

Forrester, Amy Louise

From: Tom Saleeba <tom.saleeba@adelaide.edu.au>
Sent: Monday, April 23, 2018 1:29 AM
To: Roger Dahl
Cc: Mark Servilla; Forrester, Amy Louise; Siddeswara Guru
Subject: Re: SSL cert renewal for our node

Hi Roger,
re: the PR - happy to help out.

I've already taken a database backup so we're all good there. This is only the dev machine, so I won't be devastated if I lose anything but I need to figure things out so I can do it right on the prod machine (and not lose anything).

Originally everything was unselected for `showmigrations` but you asking me about that made me realise I can run them selectively. I went round in circles a few times but I'll display the step below in the order I actually ended up doing them.

Running `makemigrations` gave me this

```
gmn@dataone-dev:/home/ubuntu/gmn2-app-dir$ python manage.py makemigrations
/var/local/dataone/gmn_venv/local/lib/python2.7/site-packages/psycopyg2-bin
keep installing from binary please use "pip install psycopyg2-bin
    """)
Migrations for 'app':
/var/local/dataone/gmn_venv/local/lib/python2.7/site-packages/d1
- Change Meta options on eventlog
- Change Meta options on scienceobject
```

I ran the migrations for auth and contenttypes and they worked, yay! I still can't run for "app" but I'll expand on that below. Here's my `showmigrations` output currently:

```
gmndataone-dev:/home/ubuntu/gmn2-app-dir$ python manage.py showm
/var/local/dataone/gmn_venv/local/lib/python2.7/site-packages/psy
keep installing from binary please use "pip install pycpg2-bin
""")
```

app

```
[ ] 0001_initial
[ ] 0002_scienceobject_filename
[ ] 0003_mediatype_mediatypeproperty
[ ] 0004_auto_20170523_0137
[ ] 0005_auto_20170527_1554
[ ] 0006_chainidtopersistentid
[ ] 0007_delete_chainidtopersistentid
[ ] 0008_chainidtopersistentid
[ ] 0009_auto_20170603_0546
[ ] 0010_auto_20170805_0107
[ ] 0011_resourcemap_resourcemapmember
[ ] 0012_auto_20170821_2129
[ ] 0013_auto_20171017_0724
[ ] 0014_auto_20171017_0725
[ ] 0015_auto_20171029_0246
[ ] 0016_auto_20180423_0458
```

auth

```
[X] 0001_initial
[X] 0002_alter_permission_name_max_length
[X] 0003_alter_user_email_max_length
[X] 0004_alter_user_username_opts
[X] 0005_alter_user_last_login_null
[X] 0006_require_contenttypes_0002
[X] 0007_alter_validators_add_error_messages
[X] 0008_alter_user_username_max_length
```

contenttypes

```
[X] 0001_initial
[X] 0002_remove_content_type_name
```

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...but then doing a `migrate` failed with the same stacktrace as last time:

Operations to perform:

Apply all migrations: app, auth, contenttypes

Running migrations:

Applying app.0001_initial...Traceback (most recent call last):

```
File "manage.py", line 31, in <module>
    execute_from_command_line(sys.argv)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/core/management/__init__.py", line 364, in
execute_from_command_line
    utility.execute()
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/core/management/__init__.py", line 356, in execute
    self.fetch_command(subcommand).run_from_argv(self.argv)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/core/management/base.py", line 283, in run_from_argv
    self.execute(*args, **cmd_options)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/core/management/base.py", line 330, in execute
    output = self.handle(*args, **options)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/core/management/commands/migrate.py", line 204, in handle
    fake_initial=fake_initial,
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/migrations/executor.py", line 115, in migrate
    state = self._migrate_all_forwards(state, plan, full_plan, fake=fake,
fake_initial=fake_initial)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/migrations/executor.py", line 145, in
_migrate_all_forwards
    state = self.apply_migration(state, migration, fake=fake,
fake_initial=fake_initial)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/migrations/executor.py", line 244, in apply_migration
    state = migration.apply(state, schema_editor)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/migrations/migration.py", line 129, in apply
    operation.database_forwards(self.app_label, schema_editor, old_state,
project_state)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/migrations/operations/models.py", line 97, in
database_forwards
    schema_editor.create_model(model)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/backends/base/schema.py", line 303, in create_model
    self.execute(sql, params or None)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/backends/base/schema.py", line 120, in execute
    cursor.execute(sql, params)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/backends/utils.py", line 65, in execute
    return self.cursor.execute(sql, params)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/utils.py", line 94, in __exit__
    six.reraise(dj_exc_type, dj_exc_value, traceback)
File "/var/local/dataone/gmn_venv/local/lib/python2.7/site-
packages/django/db/backends/utils.py", line 63, in execute
```

```
        return self.cursor.execute(sql)
django.db.utils.ProgrammingError: relation "app_blockedmembnode" already
exists
```

Rather than playing email ping-pong, I can add your public key to our machine if you'd like to SSH in and inspect anything. I need your IP too so I can open up the firewall.

Seeing as this all started because my 'ScienceObject' table doesn't have a 'filename' column, let's have a look at the schema:

```
CREATE TABLE app_scienceobject
(
  id serial NOT NULL,
  pid_id integer NOT NULL,
  serial_version integer NOT NULL,
  modified_timestamp timestamp with time zone NOT NULL,
  uploaded_timestamp timestamp with time zone NOT NULL,
  format_id integer NOT NULL,
  checksum character varying(128) NOT NULL,
  checksum_algorithm_id integer NOT NULL,
  size bigint NOT NULL,
  submitter_id integer NOT NULL,
  rights_holder_id integer NOT NULL,
  origin_member_node_id integer NOT NULL,
  authoritative_member_node_id integer NOT NULL,
  obsoletes_id integer,
  obsoleted_by_id integer,
  is_archived boolean NOT NULL,
  url character varying(1024) NOT NULL,
  CONSTRAINT app_scienceobject_pkey PRIMARY KEY (id),
  CONSTRAINT ed61fa6020b57b624a0fcc68f158ac00 FOREIGN KEY
```

and if compare that to the [initial database migration](#), my table has more columns. It doesn't have that filename field but that is created in migration 0002. Basically, I've got no idea where my table fits to the migration path (if anywhere).

Some more history Roger, this instance was originally a V1 GMN. I followed the instructions to migrate to V2 and ended up with v2.0.5 of GMN. However, at that stage I had a pretty messy virtualenv:

```
dataone.cli==1.2.5
dataone.common==2.0.1rc2
dataone.gmn==2.0.5
dataone.libclient==2.0.1rc2
dataone.scimeta==2.4.2
```

...and I'm not 100% why that is. We've written our own tool for loading stuff to the MN and being a total python n00b back then, (I'm a bit better now) I probably used the same virtualenv and messed things up. Now I'm trying to go to the latest, which is 2.4.2.

Regards
Tom

On 23/04/18 13:47, Roger Dahl wrote:

Hey Tom,

Thanks for the PR!

You should probably backup the database before trying more fixes. I've seen this error before -- only I can't remember if I was able to resolve it while preserving the data!

What happens if you do `./manage.py makemigrations` first, then `./manage.py migrate`?

Also, what does `./manage.py showmigrations` say?

On 04/20/2018 08:00 AM, Mark Servilla wrote:

Hi Tom,

Wow! And all because of an expired (or near expired) certificate - just kidding. The Django way of life is not high on my "know how" list (I prefer Flask), so I'll pass this onto Roger. Note also there is a new release of GMN coming out soon that sports and supports Python3. Sorry.

Sincerely,
Mark