

# Convert MySQL database to PostgreSQL

## Step-1

To install mysql2psql (under ubuntu 11.10): No need to get from github, just:

```
# gem install mysql pg mysql2psql
```

if there is no gem install it first,

```
# apt-get update && apt-get -y upgrade && apt-get install -y apache2 php5 libapache2-mod-php5  
php5-mysql libapache2-mod-perl2 libcurl4-openssl-dev libssl-dev apache2-prefork-dev libapr1-dev  
libaprutil1-dev libmysqlclient-dev libmagickcore-dev libmagickwand-dev curl git-core gitolite  
patch build-essential bison zlib1g-dev libssl-dev libxml2-dev libxml2-dev sqlite3 libsqlite3-dev  
autotools-dev libxslt1-dev libyaml-0-2 autoconf automake libreadline6-dev libyaml-dev libtool  
imagemagick apache2-utils ssh zip libc6-dev libssh2-1 libssh2-1-dev cmake libgpg-error-dev  
subversion libapache2-svn nano
```

```
# apt-get -y install software-properties-common
```

```
# add-apt-repository ppa:brightbox/ruby-ng
```

```
# apt-get update
```

```
# apt-get -y install ruby2.1 ruby-switch ruby2.1-dev ri2.1 libruby2.1 libssl-dev zlib1g-dev
```

```
# ruby-switch --set ruby2.1
```

```
# gem update
```

```
# gem install mysql pg mysql2psql
```

## Step-2

To get info about the mysql socket:(run this on mysql server)

```
# netstat -l | grep mysql
```

or

```
# netstat -ln | grep -o -m 1 -E 'S*mysqld?.sock'
```

## Step-3

creates a .yml template

```
# mysql2psql
```

now it shows some error and a “mysql2psql.yml” file for make our work more easy

```
root@186bc14378e5: /
root@150217593ecf: /opt/redmine/redmine x bizruntime@biz: ~ x root@186bc14378e5: / x ubuntu@akhil: /home/dock/redmine-dock x
root@186bc14378e5: /# mysql2psql
/var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/lib/mysql2psql/config.rb:11:in `initialize': (Mysql2psql::ConfigurationFileInitialized)

No configuration file found.
A new file has been initialized at: /mysql2psql.yml
Please review the configuration and retry..

    from /var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/lib/mysql2psql.rb:19:in `new'
    from /var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/lib/mysql2psql.rb:19:in `initialize'
    from /var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/bin/mysql2psql:7:in `new'
    from /var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/bin/mysql2psql:7:in `<top (required)>'
    from /usr/local/bin/mysql2psql:23:in `load'
    from /usr/local/bin/mysql2psql:23:in `<main>'
root@186bc14378e5: /#
```

## Step-4

edit the template

# nano mysql2psql.yml

edit the mysql and postgresql section

```
root@756a8a2b4de8: ~
bizruntime@biz: ~ x root@d93f3db01635: / x root@756a8a2b4de8: ~ x
GNU nano 2.2.6 File: mysql2psql.yml

mysql:
  hostname: 192.168.1.234
  port: 3306
  socket: /var/run/mysqld/mysqld.sock
  username: redmine
  password: redmine
  database: redmine

destination:
  # if file is given, output goes to file, else postgres
  file:
  postgres:
    hostname: 192.168.1.234
    port: 5432
    username: redmine
    password: redmine
    database: redmine

# if tables is given, only the listed tables will be converted. leave empty to convert all tables.
#tables:
#- table1
#- table2
# if exclude_tables is given, exclude the listed tables from the conversion.
#exclude_tables:
#- table3
#- table4
^
^G Get Help      ^O WriteOut     ^R Read File    ^Y Prev Page    ^K Cut Text      ^C Cur Pos
^X Exit          ^J Justify      ^W Where Is     ^V Next Page    ^U UnCut Text   ^T To Spell
```

## Step-5

connects to mysql database and write into postgres database

# mysql2psql

```
root@756a8a2b4de8: ~
bizruntime@biz: ~
root@d93f3db01635:/
root@756a8a2b4de8: ~

Created table comments
Creating table custom_fields...
Created table custom_fields
Creating table custom_fields_projects...
Created table custom_fields_projects
Creating table custom_fields_roles...
Created table custom_fields_roles
Creating table custom_fields_trackers...
Created table custom_fields_trackers
Creating table custom_values...
Created table custom_values
Creating table documents...
Created table documents
Creating table email_addresses...
Created table email_addresses
Creating table enabled_modules...
Created table enabled_modules
Creating table enumerations...
Created table enumerations
Creating table groups_users...
Created table groups_users
Creating table issue_categories...
Created table issue_categories
Creating table issue_relations...
Created table issue_relations
Creating table issue_statuses...
Created table issue_statuses
Creating table issues...
Created table issues
Creating table journal_details...
Created table journal_details
Creating table journals...
Created table journals
Creating table member_roles...
Created table member_roles
Creating table members...
Created table members
Creating table messages...
Created table messages
```

links: <http://nicolas-brousse.github.io/ubuntu-install-and-tips/pages/others/mysql-to-postgresql/>

%%%%%%%%%

here is an example for converting mysql to psql database for redmine  
after step 5 we need to reconfigure the redmine database.yml file

## Step-6

# {redmine home}/config/database.yml  
mysql db configuration show below

production:

adapter: mysql2  
database: redmine  
host: 192.168.1.234  
username: redmine  
password: redmine  
encoding: utf8

change this to postgresql db configuration

production:

adapter: postgresql  
database: redmine  
host: 192.168.1.234  
username: redmine  
password: redmine  
encoding: utf8  
schema\_search\_path: public

```
root@150217593ecf: /opt/redmine/redmine
root@150217593ecf: /opt/redmine/redmine x bizruntime@biz: ~ x root@186bc14378e5: / x ubuntu@akhlil: /home/dock/redmine-dock x
GNU nano 2.2.6 File: config/database.yml

## Default setup is given for MySQL with ruby1.9.
# Examples for PostgreSQL, SQLite3 and SQL Server can be found at the end.
# Line indentation must be 2 spaces (no tabs).

production:
  adapter: postgresql
  database: redmine1
  host: 192.168.1.234
  username: redmine1
  password: redmine1
  encoding: utf8
  schema_search_path: public

#production:
#  adapter: mysql2
#  database: redmine
#  host: 192.168.1.234
#  username: redmine
#  password: redmine
#  encoding: utf8

development:
  adapter: mysql2

^G Get Help      ^O WriteOut     ^R Read File    ^V Prev Page    ^K Cut Text     ^C Cur Pos
^X Exit          ^J Justify      ^W Where Is     ^N Next Page    ^U UnCut Text   ^T To Spell
```

## Step-7

whenever made a changes in config files of redmine need to use this command for activate

# bundle install --without development test postgresql sqlite

links : <http://www.redmine.org/projects/redmine/wiki/redmineinstall>

## Step-8

after migration try to create a new tickets to check whether it is working properly or not

The screenshot shows the Redmine web interface in a Mozilla Firefox browser. The address bar shows the URL `172.17.0.2/redmine/issues/6`. The page title is "Anomalie #6: ticket-02 - bizruntime - Redmine". The interface is in French. A green notification bar at the top says "Issue #6 created." The main content area shows details for "Anomalie #6" (ticket-02), created by "Redmine Admin" less than a minute ago. The details include: Status: Nouveau, Priority: Normal, Start date: 10/06/2016, Due date: (empty), % Done: 0%, and Spent time: -. There are sections for "Subtasks" and "Related issues", both with an "Add" button. On the right sidebar, there are links for "Issues", "View all issues", "Summary", "Calendar", "Gantt", and "Watchers (0)". At the bottom, it says "Also available in: Atom | PDF".