

# 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: ~
x root@d93f3db01635:/
x 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    ^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-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 includes a navigation bar with links like Home, My page, Projects, Administration, and Help. A green notification banner at the top states "Issue #6 created." The main content area displays details for "Anomalie #6" (ticket-02), including its status (Nouveau), priority (Normal), start date (10/06/2016), and a progress bar for "% Done" at 0%. The right sidebar contains links for "Issues", "Summary", "Calendar", "Gantt", and "Watchers (0)".