

Quassel IRC - Bug #1170

Cannot migrate 0.8.0 to PostgreSQL

05/30/2012 08:52 PM - miohtama

Status:	New	Start date:	05/30/2012
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Version:	0.8-pre	OS:	Any
Description			
I tried to migrate my SQLite to PostgreSQL and it failed			
<pre>[miohtama@l akka] [21:42] [~]% ./quasselcore-static-0.8.0 --select-backend=PostgreSQL 2012-05-30 21:43:03 Warning: SslServer: Certificate file /home/users/miohtama/.config/quassel-irc. org/quasselCert.pem does not exist 2012-05-30 21:43:03 Warning: SslServer: Unable to set certificate file Quassel Core will still work, but cannot provide SSL for client connections. Please see http://quassel-irc.org/faq/cert to learn how to enable SSL support. 2012-05-30 21:43:03 Warning: SslServer: Certificate file /home/users/miohtama/.config/quassel-irc. org/quasselCert.pem does not exist ("QPSQL7", "QPSQL", "QSQLITE") 2012-05-30 21:43:03 Info: SQLite Storage Backend is ready. Quassel Schema Version: 17 ("QPSQL7", "QPSQL", "QSQLITE") Default values are in brackets Username (quassel): xxxx Password: channel 3: open failed: connect failed: Connection refused Hostname (localhost): db1.xxx.fi Port (5432): Database (quassel): xxx Storage Schema is missing! NOTICE: CREATE TABLE will create implicit sequence "quasseluser_userid_seq" for serial column "qu asseluser.userid" NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "quasseluser_pkey" for table "quass eluser" NOTICE: CREATE TABLE / UNIQUE will create implicit index "quasseluser_username_key" for table "qu asseluser" NOTICE: CREATE TABLE will create implicit sequence "sender_senderid_seq" for serial column "sende r.senderid" NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "sender_pkey" for table "sender" NOTICE: CREATE TABLE / UNIQUE will create implicit index "sender_sender_key" for table "sender" NOTICE: CREATE TABLE will create implicit sequence "identity_identityid_seq" for serial column "i dentity.identityid" NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "identity_pkey" for table "identity " NOTICE: CREATE TABLE / UNIQUE will create implicit index "identity_userid_identityname_key" for t able "identity" NOTICE: CREATE TABLE will create implicit sequence "identity_nick_nickid_seq" for serial column " identity_nick.nickid" NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "identity_nick_pkey" for table "ide ntity_nick" NOTICE: CREATE TABLE / UNIQUE will create implicit index "identity_nick_identityid_nick_key" for table "identity_nick" NOTICE: CREATE TABLE will create implicit sequence "network_networkid_seq" for serial column "net work.networkid" NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "network_pkey" for table "network" NOTICE: CREATE TABLE / UNIQUE will create implicit index "network_userid_networkname_key" for tab le "network" NOTICE: CREATE TABLE will create implicit sequence "buffer_bufferid_seq" for serial column "buffe</pre>			

```

r.bufferid"
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "buffer_pkey" for table "buffer"
NOTICE: CREATE TABLE / UNIQUE will create implicit index "buffer_userid_networkid_buffercname_key" for table "buffer"
NOTICE: CREATE TABLE will create implicit sequence "backlog_messageid_seq" for serial column "backlog.messageid"
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "backlog_pkey" for table "backlog"
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "coreinfo_pkey" for table "coreinfo"
NOTICE: CREATE TABLE will create implicit sequence "ircserver_serverid_seq" for serial column "ircserver.serverid"
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "ircserver_pkey" for table "ircserver"
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "user_setting_pkey" for table "user_setting"
2012-05-30 21:43:26 Info: PostgreSQL Storage Backend is ready. Quassel Schema Version: 16
Switched backend to: PostgreSQL
Migrating Storage backend SQLite to PostgreSQL...
Transferring QuasselUser...
Done.
Transferring Identity...
Done.
Transferring IdentityNick...
Done.
Transferring Network...
Done.
Transferring Buffer...
Migration Failed!
AbstractSqlMigrationReader::transferMo(): unable to transfer Migratable Object of type Buffer!
WriterError:
    executed Query:
INSERT INTO buffer (bufferid, userid, groupid, networkid, buffername, buffercname, buffertype, lastseenmsgid, markerlinemsgid, key, joined)
VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)
    bound Values:
0 : 22
1 : 1
2 : 0
3 : 2
4 : #xxx
5 : #xxx
6 : 2
7 : 0
8 : 0
9 :
10 : true
    Error Number: -1
    Error Message: "ERROR: insert or update on table "buffer" violates foreign key constraint "buffer_networkid_fkey"
DETAIL: Key (networkid)=(2) is not present in table "network".
QPSQL: Unable to create query"

```

Possible causes of failure:

- Database is not fresh, but has had prior Quassel installation before. I dropped all tables before trying to migrate, but is there something else to drop
- The data is really old from 0.6 version and maybe below. It might not be sane in modern standards.

History

#1 - 08/25/2012 05:20 PM - dxbi

Had the same problem on a new psql database. Turned out to be a single message from an abandoned buffer:

```

sqlite> select networkid from buffer where networkid not in (select networkid from network group by networkid)
;

```

```
networkid
8
sqlite> select * from buffer where networkid=8;
bufferid|userid|groupid|networkid|buffername|buffercname|buffertype|lastseenmsgid|key|joined|markerlinemsgid
187|1||8||||1|0||0|0
sqlite> select * from backlog where bufferid=187;
messageid|time|bufferid|type|flags|senderid|message
1417052|1289419500|187|1024|0|1|Disconnecting. (http://quassel-irc.org - Chat comfortably. Anywhere.)
```

Deleting the offending rows fixed the issue. Wouldn't it make sense to do this automatically? Buffers connected to deleted networks can't be accessed anyway, right?

```
sqlite> delete from backlog where bufferid=187;
sqlite> delete from buffer where networkid=8;
```

Also, after the failed migration attempt, I had to **restore quasselCore.conf from backup** because the storage backend had already been updated and the migration would always fail with

```
Switched backend to: PostgreSQL
No currently active backend. Skipping migration.
New backend does not support migration: PostgreSQL
Add a new user:
Username:
```

#2 - 10/09/2014 07:08 PM - Bombe

It is also possible to simply switch back to the SQLite backend using

```
quasselcore --select-backend=sqlite
```

As the sqlite database already exists nothing is changed except for the configuration.