

Quassel IRC - Bug #1245

Some senders are ignored due to PostgreSQL constraint errors

10/09/2013 10:49 AM - Tobu

Status:	Confirmed	Start date:	10/09/2013
Priority:	Urgent	Due date:	
Assignee:		% Done:	0%
Category:	Quassel Core	Estimated time:	0.00 hour
Target version:		OS:	Any
Version:	0.9-pre		
Description			
Error on the sender table:			
<pre>2013-10-09 09:58:25 CEST ERROR: duplicate key value violates unique constraint "sender_sender_key" 2013-10-09 09:58:25 CEST DETAIL: Key (sender)=(blah!~blah@blah) already exists. 2013-10-09 09:58:25 CEST STATEMENT: EXECUTE quassel_insert_sender ('blah!~blah@blah')</pre>			
Error on the backlog table:			
<pre>2013-10-09 09:58:25 CEST ERROR: insert or update on table "backlog" violates foreign key constraint "backlog_senderid_fkey" 2013-10-09 09:58:25 CEST DETAIL: Key (senderid)=(0) is not present in table "sender". 2013-10-09 09:58:25 CEST STATEMENT: EXECUTE quassel_insert_message ('2013-10-9 07:58:25.389', 164, 128, 0, 0, 'Remote host closed the connection')</pre>			
Sender does have a uniqueness constraint.			
Those senders end up silently ignored in the UI and the DB, which can cause confusion and unintended rudeness.			
Quassel 0.9.0-0ubuntu1 PostgreSQL 9.3			

History

#1 - 10/17/2013 01:45 AM - davidstrauss

This affects migrations, too.

```
Transferring Sender...
*****Migration Failed!
AbstractSqlMigrationReader::transferMo(): unable to transfer Migratable Object of type Sender!
WriterError:
  executed Query:
INSERT INTO sender (senderid, sender)
VALUES (?, ?)
  bound Values:
0 : 8554
1 : \{^_^}!nyuszika7h@trekweb/user/nyuszika7h
  Error Number: -1
  Error Message: "ERROR: duplicate key value violates unique constraint "sender_sender_key"
DETAIL: Key (sender)=(\{^_^}!nyuszika7h@trekweb/user/nyuszika7h) already exists.
(23505) QPSQL: Unable to create query"
```

#2 - 11/26/2013 09:40 PM - Anonymous

- Status changed from New to Resolved

#3 - 11/27/2013 01:07 PM - Tobu

Fixed by <https://github.com/quassel/quassel/commit/aa1008be162cb27da938cce93ba533f54d228869> (which also fixes [#1244](#)), according to Tucos.

#4 - 11/27/2013 02:14 PM - Anonymous

- Status changed from Resolved to Feedback

- Target version deleted (0.9.1)

#5 - 11/27/2013 02:14 PM - Anonymous

- Status changed from Feedback to Confirmed

#6 - 11/27/2013 02:14 PM - Tobu

Bug still present in 0.9.2:

```
2013-11-27 12:48:59 UTC ERROR: duplicate key value violates unique constraint "sender_sender_key"
2013-11-27 12:48:59 UTC DETAIL: Key (sender)=(blah!~blah@blah) already exists.
2013-11-27 12:48:59 UTC STATEMENT: EXECUTE quassel_insert_sender ('blah!~blah@blah')
2013-11-27 12:48:59 UTC ERROR: duplicate key value violates unique constraint "sender_sender_key"
2013-11-27 12:48:59 UTC DETAIL: Key (sender)=(blah!~blah@blah) already exists.
2013-11-27 12:48:59 UTC STATEMENT: EXECUTE quassel_insert_sender ('blah!~blah@blah')
2013-11-27 12:48:59 UTC ERROR: insert or update on table "backlog" violates foreign key constraint "backlog_s
enderid_fkey"
2013-11-27 12:48:59 UTC DETAIL: Key (senderid)=(0) is not present in table "sender".
2013-11-27 12:48:59 UTC STATEMENT: EXECUTE quassel_insert_message ('2013-11-27 12:48:59.879', 184, 1, 0, 0, '
blah')
2013-11-27 12:48:59 UTC ERROR: insert or update on table "backlog" violates foreign key constraint "backlog_s
enderid_fkey"
2013-11-27 12:48:59 UTC DETAIL: Key (senderid)=(0) is not present in table "sender".
2013-11-27 12:48:59 UTC STATEMENT: EXECUTE quassel_insert_message ('2013-11-27 12:48:59.879', 184, 1, 0, 0, '
blah')
```

#7 - 11/04/2015 06:03 PM - undu

Tobu wrote:

Fixed by <https://github.com/quassel/quassel/commit/aa1008be162cb27da938ccea93ba533f54d228869> (which also fixes #1244), according to Tucos.

Still present in 0.12.2-3 (archlinux)

Right now it seems to affect mostly my own messages, although some other events cause an error too:

```
Nov 04 16:57:13 piripi quasselcore[2018]: 2015-11-04 16:57:13 Error: unhandled Error in QSqlQuery!
Nov 04 16:57:13 piripi quasselcore[2018]: 2015-11-04 16:57:13 Error: last Query:
Nov 04 16:57:13 piripi quasselcore[2018]: EXECUTE quassel_insert_message (TIMESTAMP WITH TIME ZONE '2015-11-04
T16:57:13.622Z', 8, 128, 0, 142, 'Connection closed')
Nov 04 16:57:13 piripi quasselcore[2018]: 2015-11-04 16:57:13 Error: executed Query:
Nov 04 16:57:13 piripi quasselcore[2018]: 2015-11-04 16:57:13 Error: bound Values:
Nov 04 16:57:13 piripi quasselcore[2018]: 2015-11-04 16:57:13 Error: Error Number: 23503
Nov 04 16:57:13 piripi quasselcore[2018]: 2015-11-04 16:57:13 Error: Error Message: ERROR: ins
ert or update on table "backlog" violates foreign key constraint "backlog_senderid_fkey"
Nov 04 16:57:13 piripi quasselcore[2018]: DETAIL: Key (senderid)=(142) is not present in table "sender".
Nov 04 16:57:13 piripi quasselcore[2018]: (23503) QPSQL: Unable to create query
Nov 04 16:57:13 piripi quasselcore[2018]: 2015-11-04 16:57:13 Error: Driver Message: QPSQL: Unab
le to create query
Nov 04 16:57:13 piripi quasselcore[2018]: 2015-11-04 16:57:13 Error: DB Message: ERROR: ins
ert or update on table "backlog" violates foreign key constraint "backlog_senderid_fkey"
Nov 04 16:57:13 piripi quasselcore[2018]: DETAIL: Key (senderid)=(142) is not present in table "sender".
Nov 04 16:57:13 piripi quasselcore[2018]: (23503)
```

#8 - 01/22/2016 12:02 AM - Tobu

It's a problem with the '!' character.
PostgreSQL 9.5 now logs the exact character with the error.
I suppose it needs to be escaped.

#9 - 08/12/2017 08:49 PM - Tobu

This seems to have fixed it:

```
psql quasselcore
REINDEX INDEX sender_hashidx;
```

#10 - 10/22/2020 12:46 AM - j Jakob

I'm getting the same errors after migrating from PostgreSQL 9.5 to 12. I reindexed all indexes except "sender_sender_realname_avatarurl_uindex" which returns an error:

```
ERROR: could not create unique index "sender_sender_realname_avatarurl_uindex"
DETAIL: Key (sender, realname, avatarurl)=(foo!~bar@abcd, foobar, ) is duplicated.
CONTEXT: parallel worker
```

There is no index sender_hashidx

#11 - 10/22/2020 07:15 PM - jjakob

Some more error logs. I verified that I have standard_conforming_strings = on.

```
Oct 22 18:21:32 gentoo quasselcore[2274]: SignalProxy::handleInitRequest() received initRequest for unregistered Object: "IrcUser" "1/someuser"
Oct 22 18:21:32 gentoo quasselcore[2274]: SignalProxy::handleInitRequest() received initRequest for unregistered Object: "IrcUser" "1/anotheruser"
Oct 22 18:21:32 gentoo quasselcore[2274]: SignalProxy::handleInitRequest() received initRequest for unregistered Object: "IrcUser" "1/someuser"
Oct 22 18:29:12 gentoo quasselcore[2274]: QSqlQuery::value: not positioned on a valid record
Oct 22 18:29:12 gentoo quasselcore[2274]: unhandled Error in QSqlQuery!
Oct 22 18:29:12 gentoo quasselcore[2274]: last Query:
EXECUTE quassel_insert_message (TIMESTAMP WITH TIME ZONE '2020-10-22T16:29:12.996Z', 14, 1, 0, 0, NULL, 'this message is replaced with a placeholder for the purpose of this bug')
Oct 22 18:29:12 gentoo quasselcore[2274]: executed Query:
```

```
Oct 22 18:29:12 gentoo quasselcore[2274]: bound Values:
Oct 22 18:29:12 gentoo quasselcore[2274]: Error Number: 23503
Oct 22 18:29:12 gentoo quasselcore[2274]: Error Message: ERROR: insert or update on table "backlog" violates foreign key constraint "backlog_senderid_fkey"
DETAIL: Key (senderid)=(0) is not present in table "sender".
(23503) QPSQL: Unable to create query
Oct 22 18:29:12 gentoo quasselcore[2274]: Driver Message: QPSQL: Unable to create query
Oct 22 18:29:12 gentoo quasselcore[2274]: DB Message: ERROR: insert or update on table "backlog" violates foreign key constraint "backlog_senderid_fkey"
DETAIL: Key (senderid)=(0) is not present in table "sender".
(23503)
```

```
2020-10-22 18:29:12.997 CEST [2283] ERROR: duplicate key value violates unique constraint "sender_sender_realname_avatarurl_uindex"
2020-10-22 18:29:12.997 CEST [2283] DETAIL: Key (sender, realname, avatarurl)=(abc!~def@xyz, abc, ) already exists.
2020-10-22 18:29:12.997 CEST [2283] STATEMENT: EXECUTE quassel_insert_sender ('abc!~def@xyz', 'abc', '')
2020-10-22 18:29:12.997 CEST [2283] ERROR: duplicate key value violates unique constraint "sender_sender_realname_avatarurl_uindex"
2020-10-22 18:29:12.997 CEST [2283] DETAIL: Key (sender, realname, avatarurl)=(abc!~def@xyz, abc, ) already exists.
2020-10-22 18:29:12.997 CEST [2283] STATEMENT: EXECUTE quassel_insert_sender ('abc!~def@xyz', 'abc', '')
2020-10-22 18:29:12.998 CEST [2283] ERROR: insert or update on table "backlog" violates foreign key constraint "backlog_senderid_fkey"
2020-10-22 18:29:12.998 CEST [2283] DETAIL: Key (senderid)=(0) is not present in table "sender".
2020-10-22 18:29:12.998 CEST [2283] STATEMENT: EXECUTE quassel_insert_message (TIMESTAMP WITH TIME ZONE '2020-10-22T16:29:12.996Z', 14, 1, 0, 0, NULL, 'this message is replaced with a placeholder for the purpose of this bug')
2020-10-22 18:29:12.999 CEST [2283] ERROR: insert or update on table "backlog" violates foreign key constraint "backlog_senderid_fkey"
2020-10-22 18:29:12.999 CEST [2283] DETAIL: Key (senderid)=(0) is not present in table "sender".
2020-10-22 18:29:12.999 CEST [2283] STATEMENT: EXECUTE quassel_insert_message (TIMESTAMP WITH TIME ZONE '2020-10-22T16:29:12.996Z', 14, 1, 0, 0, NULL, 'this message is replaced with a placeholder for the purpose of this bug')
```

#12 - 06/08/2022 10:55 PM - jjakob

When trying to migrate this database that is producing the above errors constantly throughout its lifetime, I get this error:

```
2022-06-08 22:44:56.731 CEST [23885] ERROR: could not create unique index "sender_sender_realname_avatarurl_uindex"
2022-06-08 22:44:56.731 CEST [23885] DETAIL: Key (sender, realname, avatarurl)=(HashMap!~HashMap@192.0.2.1, HashMap, ) is duplicated.
2022-06-08 22:44:56.731 CEST [23885] STATEMENT: CREATE UNIQUE INDEX sender_sender_realname_avatarurl_uindex ON public.sender USING btree (sender, realname, avatarurl);
```

#13 - 06/11/2022 09:08 PM - jjakob

I think there are a couple different bugs mixed together in this issue.

I've found one (rows in sender that violate "sender_sender_realname_avatarurl_uindex") and am almost done fixing it (testing the migration SQL).

It was caused by <https://github.com/quassel/quassel/commit/20f446a492d8e681156423f0dc3637db78c45bae> so it's present since 0.13-rc1, not before.

Other errors not related to this index (for example "backlog_senderid_fkey", "initRequest for unregistered Object") may or may not be related, I'll see when I get this one bug sorted.