

Quassel IRC - Bug #1436

Postgresql schema 19 migration with an empty channel buffer crashes core.

05/24/2017 04:05 AM - ephemeroI

Status:	New	Start date:	05/24/2017
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		OS:	Linux
Version:	0.12.4		

Description

I had to dig to figure this out, and with the help of romibi and digitalcircuit it was overcome. I was running git builds and went to restart my core after an update. The core would not come online. I had to 'su - quassel -s /bin/bash' and launch the core manually and look for output, as nothing was being put in the logs. After seeing the following:

```
$quasselcore -c .
("QSQLITE", "QMYSQL", "QMYSQL3", "QPSQL", "QPSQL7")
Installed Schema (version 19) is not up to date. Upgrading to version 21...
unhandled Error in QSqlQuery!
last Query:
ALTER TABLE buffer
ADD COLUMN lastmsgid integer NOT NULL DEFAULT 0
executed Query:

bound Values:
      Error Number: 42701
      Error Message: ERROR: column "lastmsgid" of relation "buffer" already exists
(42701) QPSQL: Unable to create query
      Driver Message: QPSQL: Unable to create query
      DB Message: ERROR: column "lastmsgid" of relation "buffer" already exists
(42701)
Unable to upgrade Logging Backend!
Upgrade failed...
FATAL: Selected storage backend is not available: "PostgreSQL"
```

With help we determined via logging into postgresql, selecting the quassel database, and running 'ALTER TABLE buffer RENAME COLUMN lastmsgid TO lastmsgidbackup;' was able to overcome that error that led to discovering:

```
("QSQLITE", "QMYSQL", "QMYSQL3", "QPSQL", "QPSQL7")
Installed Schema (version 19) is not up to date. Upgrading to version 21...
unhandled Error in QSqlQuery!
last Query:
SELECT populate_lastmsgid()
executed Query:

bound Values:
      Error Number: 23502
      Error Message: ERROR: null value in column "lastmsgid" violates not-null constraint
DETAIL: Failing row contains (43, 1, null, 3, #channel, #channel, 2, 131231814, 86047596, null, t
, 0, null).
CONTEXT: SQL statement "UPDATE buffer
      SET lastmsgid = (
          SELECT backlog.messageid
          FROM backlog
          WHERE backlog.bufferid = i.bufferid
          ORDER BY messageid DESC LIMIT 1
      )
      WHERE buffer.bufferid = i.bufferid"
PL/pgSQL function populate_lastmsgid() line 7 at SQL statement
(23502) QPSQL: Unable to create query
      Driver Message: QPSQL: Unable to create query
```

```
DB Message: ERROR: null value in column "lastmsgid" violates not-null constrain
t
DETAIL: Failing row contains (43, 1, null, 3, #channel, #channel, 2, 131231814, 86047596, null, t
, 0, null).
CONTEXT: SQL statement "UPDATE buffer
        SET lastmsgid = (
            SELECT backlog.messageid
            FROM backlog
            WHERE backlog.bufferid = i.bufferid
            ORDER BY messageid DESC LIMIT 1
        )
        WHERE buffer.bufferid = i.bufferid"
PL/pgSQL function populate_lastmsgid() line 7 at SQL statement
(23502)
Unable to upgrade Logging Backend!
Upgrade failed...
FATAL: Selected storage backend is not available: "PostgreSQL"
```

In the above the buffer number 43 was found to be empty with the query 'SELECT backlog.messageid FROM backlog WHERE backlog.bufferid = 43;'

It was solved by running 'INSERT INTO backlog (time, bufferid, type, flags, senderid, message) SELECT time, 43, type, flags, senderid, message FROM backlog ORDER BY messageid DESC LIMIT 1 RETURNING messageid;'

If you encounter this, adapt as necessary by changing the buffer group number to overcome the issues and upgrade.

Thanks all!

Be well.