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Subject: Re: Patch: Reconnecting PostgreSQL Automatically on Unstable Networks  
Posted by [mirek](#) on Tue, 27 Apr 2010 18:21:39 GMT

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zsolt wrote on Tue, 27 April 2010 13:21 After a network connection problem or coming back from suspend, it is convenient for your users to reconnect your app to the server automatically.

I did not want to write a lot of code dealing with this problem, so I patched PostgreSQL classes.

Using this patch PostgreSQL classes reconnect to the server on connection problems. They try to reconnect only once and not within transactions.

In void PostgreSQLSession::ExecTrans(const char \* statement) change the rowresult = PQexec(conn, statement);

```
to for(int i=0; i<2; i++){
    result = PQexec(conn, statement);
    if(level==0 && !ConnectionOK())
        if(!ReOpen()) return;
    else continue;
    break;
}
```

and in bool PostgreSQLConnection::Execute() change the row result = PQexecParams(conn, query, 0, NULL, NULL, NULL, NULL, 0);

```
to for(int i=0; i<2; i++){
    result = PQexecParams(conn, query, 0, NULL, NULL, NULL, NULL, 0);
    if(session.level==0 && !session.ConnectionOK())
        if(!session.ReOpen()) return false;
    else continue;
    break;
}
```

I am not sure this is a good solution - what if you are in the middle of the transaction? Or in the Fetch loop?

Interestingly, I had to deal with this issue quite recently (in PGSQL). In the end I have ended with solution that:

- periodically (via 1s timer; I may make it more frequent in the future) issues "select 0" as sort of ping and automatically reconnects if this fails
  - in other cases throws exception and restarts the application (because that is the only solution I consider safe in all cases).
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