Subject: MSSQL connection cause memory leak
Posted by akebee on Mon, 10 Apr 2017 07:01:03 GMT
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my application frequently attempts to connect to the database server.
see the pic:

and the code:

```
 while(1)
 {
  MSSQLSession mssql;
  for(;;) {
   String cs = "Driver={SQL Server};";
   cs << "Server=" << "127.0.0.1" << ';';
   String h = "sa";
   if(IsNull(h))
    cs << "Trusted_Connection=Yes;";
   else {
    cs << "UID=" << h << ';';
   // Cout() << "Password:";
    cs << "PWD=" << pass << ';';
   // Cout() << "Database (empty for default):";
    h = "";
    if(IsNull(h))
     cs << "Database=" << h << ';';
   }
   Cout() << "Connect mssql:" << cs << "\n";
   if(!mssql.Connect(cs))
    Cout() << "Connect failed: " << mssql.GetLastError() << '\n';
   else
    break;
  }

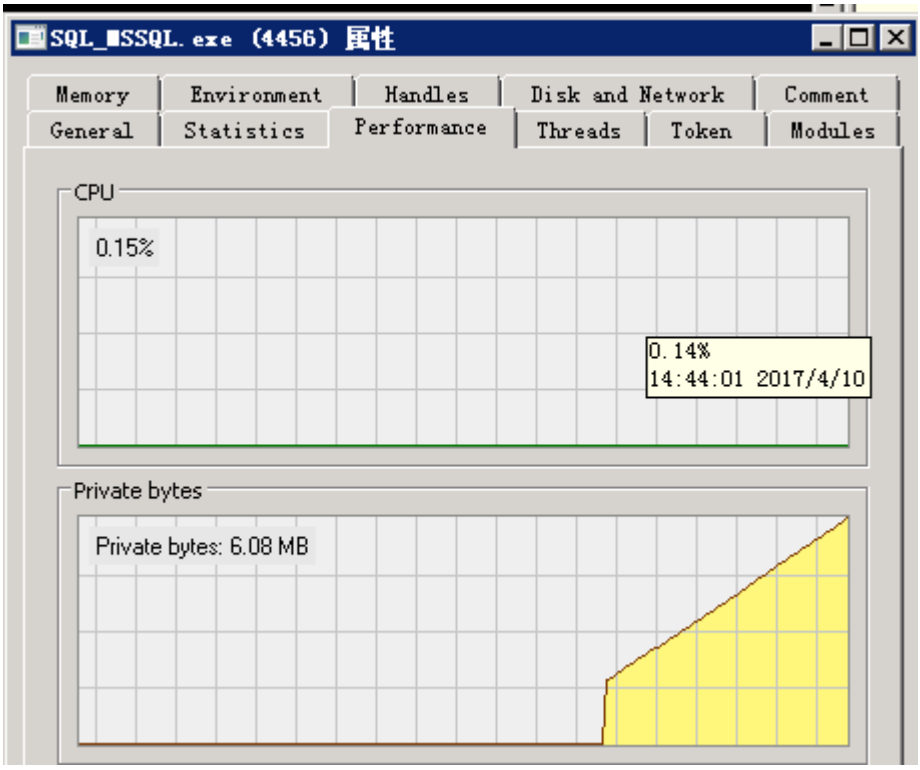
  #ifdef _DEBUG
   mssql.SetTrace();
  #endif

  //do some work
  Sleep(1000);

  mssql.Close();
 }
```

File Attachments

1) , downloaded 1004 times



Subject: Re: MSSQL connection cause memory leak
Posted by mirek on Mon, 10 Apr 2017 09:25:30 GMT
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Thanks, that is weird. Will look into it asap.

Subject: Re: MSSQL connection cause memory leak
Posted by akebee on Mon, 10 Apr 2017 09:55:29 GMT
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Yes, momoery increased when ODBCSession::Connect > SQLAllocHandle(SQL_HANDLE_STMT, hdbc, &hstmt);

but the ODBCSession::Close() > SQLFreeHandle(SQL_HANDLE_DBC, hdbc); seems no effect!

Subject: Re: MSSQL connection cause memory leak
Posted by mirek on Mon, 10 Apr 2017 10:19:08 GMT
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Now looking at Close, maybe try to swap

```
SQLFreeHandle(SQL_HANDLE_DBC, hdbc);
SQLFreeHandle(SQL_HANDLE_STMT, hstmt);
```

to

```
SQLFreeHandle(SQL_HANDLE_STMT, hstmt);
SQLFreeHandle(SQL_HANDLE_DBC, hdbc);
```

(maybe it does not get freed because there is still statement in it...)

Subject: Re: MSSQL connection cause memory leak
Posted by akebee on Mon, 10 Apr 2017 10:32:42 GMT
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i debug again, i must correct my earlier comment,
is the

```
if(IsOk(SQLDriverConnect(hdbc, NULL, (SQLCHAR *)cs, SQL_NTS, NULL, 0, NULL,
SQL_DRIVER_NOPROMPT))) {
...
```

cause memory increase, not SQLAllocHandle

the swap didn`t working

Subject: Re: MSSQL connection cause memory leak
Posted by mirek on Mon, 10 Apr 2017 10:47:51 GMT
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Maybe it needs

```
SQLDisconnect(hdbc);
```

before FreeHandle (in Close)?

Mirek

Subject: Re: MSSQL connection cause memory leak
Posted by akebee on Mon, 10 Apr 2017 14:11:51 GMT
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yes,you`re right!

add
SQLDisconnect(hdbc);
before
SQLFreeHandle(SQL_HANDLE_DBC, hdbc);

by the way,why not add "Close()" in "ODBCSession::~ODBCSession()"?

Subject: Re: MSSQL connection cause memory leak
Posted by mirek on Mon, 10 Apr 2017 14:39:01 GMT
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akebee wrote on Mon, 10 April 2017 16:11yes,you`re right!

add
SQLDisconnect(hdbc);
before
SQLFreeHandle(SQL_HANDLE_DBC, hdbc);

by the way,why not add "Close()" in "ODBCSession::~ODBCSession()"?

Perfect! Can you please, just to be sure, if the fix in trunk is OK?

Subject: Re: MSSQL connection cause memory leak
Posted by akebee on Tue, 11 Apr 2017 01:12:49 GMT
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yes its OK!