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Subject: MSSQL access from Linux

Posted by [chickenk](#) on Mon, 19 Oct 2009 09:34:27 GMT

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Hi,

I would like to know if some access to a MSSQL server from a linux box is possible using U++. I know that the library FreeTDS (<http://www.freetds.org/>) does it, so I wondered if Mirek got something working ?

That would be an invaluable help for me right now, since I must access a remote MSSQL server to link data with a test framework, which is currently (and will always be) running under Linux.

Thanks for your comments, remarks and suggestions. If somehow Mirek can have a look at FreeTDS... Maybe wrappers could be done.

regards,  
Lionel

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Subject: Re: MSSQL access from Linux

Posted by [mirek](#) on Mon, 19 Oct 2009 12:11:51 GMT

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chickenk wrote on Mon, 19 October 2009 05:34Hi,

I would like to know if some access to a MSSQL server from a linux box is possible using U++. I know that the library FreeTDS (<http://www.freetds.org/>) does it, so I wondered if Mirek got something working ?

Yes. It works. Current MSSQL package uses ODBC and works in Linux.

All you need to do is to configure the damn thing, which is quite tricky....

Anyway, here is a piece of code I use to connect (direct copy&paste from the app, so you will have to sort that out :):

```
#ifdef flagODBC
bool Login(ODBCSession& session)
#else
bool Login(OleDBSession& session)
#endif
{
    LoginDlg dlg;
    dlg.Icon(HollyImg::holly());
    LoadFromFile(dlg, ConfigFile("login.cfg"));
    String s = GetIniKey("DATABASE");
```

```

if(s.GetCount())
    dlg.database <=<= s;
#ifndef _DEBUG
    dlg.password <=<= Null;
    dlg.password.Password();
#endif
for(;;) {
    if(dlg.Run() != IDOK) {
        StoreToFile(dlg, ConfigFile("login.cfg"));
        return false;
    }
#ifdef PLATFORM_WIN32
    String provider = Nvl(GetIniKey("CONNECT"), "SQL Server Native Client 10.0");
#else
    String provider = Nvl(GetIniKey("CONNECT"), "MSSQL");
#endif
#ifdef flagODBC
#ifdef PLATFORM_POSIX
    String dfn = "/usr/lib/libtdsodbc.so.*";
    SetIfExists(dfn, "/usr/local/lib/libtdsodbc.so.*");
    SetIfExists(dfn, GetHomeDirFile("libtdsodbc.so.*"));
    SaveFile(GetHomeDirFile(".odbc.ini"),
        String().Cat() << "[MSSQL]\n"
        << "Driver = " << dfn << '\n'
        << "Description = MSSQL\n"
        << "ServerName = MSSQL\n"
    );
    String c =
        "[MSSQL]\n"
        "tds version = 8.0\n"
        "client charset = WINDOWS-1250\n"
    ;
    String host = ~dlg.database;
    String port;
    int q = host.ReverseFind(',');
    if(q >= 0)
        c << "host = " << host.Mid(0, q) << '\n'
        << "port = " << host.Mid(q + 1) << '\n';
    else
        c << "host = " << host << '\n';
    SaveFile(GetHomeDirFile(".freetds.conf"), c);
    String cs = "DSN=MSSQL;SERVER=MSSQL;";
#else
    String cs = "Driver={SQL Server Native Client 10.0}";
    cs << ";Server=" << ~dlg.database << ";";
#endif
    if(dlg.windows)
        cs << "Trusted_Connection=Yes;";

```

```

else
    cs << "UID=" << ~dlg.username << ";PWD=" << ~dlg.password << ";";
    if(session.Connect(cs))
        break;
#else
    String propset;
    propset << "Provider=" << provider << ";Data Source=" << ~dlg.database
        << ";Trusted_Connection=Yes;";
    if(dlg.windows ? session.OpenProp(propset) :
        session.Open(~dlg.username, ~dlg.password, ~dlg.database, provider))
        break;
#endif
    Exclamation("[A4 Connection failed!]&[A1 " + DeQtLf(session.GetLastError()));
}
StoreToFile(dlg, ConfigFile("login.cfg"));
return true;
}

```

The nasty trick used there is that login process creates some .ini file for FreeTDS

Mirek

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Subject: Re: MSSQL access from Linux  
 Posted by [chickenk](#) on Mon, 19 Oct 2009 12:33:37 GMT  
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Amazing.

I believe the FreeTDS config stuff should make its way in one of upp packages to enable direct connectivity from u++ to mssql. And then, of course, advertise it in Upp features! Should interesting other people than me.

Thanks a lot Mirek, once again you saved my life.

regards  
 Lionel

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