

SQLExpress database file auto-creation error when using Visual Stu

Source:

<http://www.tech-archive.net/Archive/VisualStudio/microsoft.public.vsnnet.general/2006-09/msg00114.html>

- *From:* Kingry <Kingry@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 13 Sep 2006 11:35:02 -0700
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I am having a problem using SQLExpress with Visual studio and getting an error (details in item 1 below) – SQLExpress database file auto-creation error.

I found this document describing known issues with Visual Studio 2005. <http://msdn.microsoft.com/vstudio/support/knownIssues/default.aspx#framework> and I believe the specific problem I am having is described in section 2.33 (Details in Item 2 below).

I'm using XP SP2, Visual Studio 2005, SQL Server Express and I'm using the ASP.NET Development Server instead of IIS.

Has anyone else had this issue and was it resolved and how?

Thanks for any assistance.

** ITEM#1 *****

Server Error in '/WebSite1' Application.

An error has occurred while establishing a connection to the server. When connecting to SQL Server 2005, this failure may be caused by the fact that under the default settings SQL Server does not allow remote connections. (provider: SQL Network Interfaces, error: 26 – Error Locating Server/Instance Specified)

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

SQLExpress database file auto-creation error:

The connection string specifies a local Sql Server Express instance using a database location within the applications App_Data directory. The provider attempted to automatically create the application services database because the provider determined that the database does not exist. The following configuration requirements are necessary to successfully check for existence

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of the application services database and automatically create the application services database:

If the applications App_Data directory does not already exist, the web server account must have read and write access to the applications directory. This is necessary because the web server account will automatically create the App_Data directory if it does not already exist.

If the applications App_Data directory already exists, the web server account only requires read and write access to the applications App_Data directory. This is necessary because the web server account will attempt to verify that the Sql Server Express database already exists within the applications App_Data directory. Revoking read access on the App_Data directory from the web server account will prevent the provider from correctly determining if the Sql Server Express database already exists. This will cause an error when the provider attempts to create a duplicate of an already existing database. Write access is required because the web server accounts credentials are used when creating the new database.

Sql Server Express must be installed on the machine.

The process identity for the web server account must have a local user profile. See the readme document for details on how to create a local user profile for both machine and domain accounts.

Source Error:

An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.

Stack Trace:

```
[SqlException (0x80131904): An error has occurred while establishing a connection to the server. When connecting to SQL Server 2005, this failure may be caused by the fact that under the default settings SQL Server does not allow remote connections. (provider: SQL Network Interfaces, error: 26 - Error Locating Server/Instance Specified)]
```

```
System.Data.SqlClient.SqlInternalConnection.OnError(SqlException exception, Boolean breakConnection) +173
```

```
System.Data.SqlClient.TdsParser.ThrowExceptionAndWarning(TdsParserStateObject stateObj) +199
```

```
System.Data.SqlClient.TdsParser.Connect(Boolean& useFailoverPartner, Boolean& failoverDemandDone, String host, String failoverPartner, String protocol, SqlInternalConnectionTds connHandler, Int64 timerExpire, Boolean encrypt, Boolean trustServerCert, Boolean integratedSecurity, SqlConnection owningObject, Boolean aliasLookup) +1069
```

```
System.Data.SqlClient.SqlInternalConnectionTds.OpenLoginEnlist(SqlConnection owningObject, SqlConnectionString connectionOptions, String newPassword,
```

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Boolean redirectedUserInstance) +606

System.Data.SqlClient.SqlInternalConnectionTds..ctor(DbConnectionPoolIdentity identity, SqlConnectionString connectionOptions, Object providerInfo, String newPassword, SqlConnection owningObject, Boolean redirectedUserInstance) +193

System.Data.SqlClient.SqlConnectionFactory.CreateConnection(DbConnectionOptions options, Object poolGroupProviderInfo, DbConnectionPool pool, DbConnection owningConnection) +219

System.Data.ProviderBase.DbConnectionFactory.CreateNonPooledConnection(DbConnection owningConnection, DbConnectionPoolGroup poolGroup) +27

System.Data.ProviderBase.DbConnectionFactory.GetConnection(DbConnection owningConnection) +49

System.Data.ProviderBase.DbConnectionClosed.OpenConnection(DbConnection outerConnection, DbConnectionFactory connectionFactory) +89

System.Data.SqlClient.SqlConnection.Open() +160

System.Web.Management.SqlServices.GetSqlConnection(String server, String user, String password, Boolean trusted, String connectionString) +67

[HttpException (0x80004005): Unable to connect to SQL Server database.]

System.Web.Management.SqlServices.GetSqlConnection(String server, String user, String password, Boolean trusted, String connectionString) +123

System.Web.Management.SqlServices.SetupApplicationServices(String server, String user, String password, Boolean trusted, String connectionString, String database, String dbFileName, SqlFeatures features, Boolean install) +89

System.Web.Management.SqlServices.Install(String database, String dbFileName, String connectionString) +26

System.Web.DataAccess.SqlConnectionHelper.CreateMdfFile(String fullFileName, String dataDir, String connectionString) +386

** ITEM #2 *****

2.33 Windows User Profiles for ASP.NET Automatic Database Creation with SQL Server Express and IIS

The ASP.NET automatic MDF creation process for SQL Server providers using SQL Server Express (SSE) and IIS only works when IIS is running either as the local ASP.NET computer account, or as NT AUTHORITY\NETWORK SERVICE. The automatic creation process also works when a developer is interactively developing using Cassini (i.e. file based webs). However, when developing against IIS using either a different local computer account, or a domain user account, the automatic database creation process will fail because these accounts do not have a Windows user profile available on the web server.