

Error while restoring a backup

Applies from Application Suite 2017.1.1

Description:

When trying to restore a backup into an Application Suite 2017.Winter.1 or newer, the operation could fail.

Logs contained in `BillyBlues.Core.Wizard` folder show the following error:

```
System.Data.SqlClient.SqlException : The EXECUTE permission was denied on the object 'sp_detach_db', database 'mssqltempdb'.
Stacktrace
at System.Data.SqlClient.SqlConnection.OnError(SqlException exception, Boolean breakConnection, Action`1 wrapCloseInErrorAction)
at System.Data.SqlClient.SqlInternalConnection.OnError(SqlException exception, Boolean breakConnection, Action`1 wrapCloseInErrorAction)
at System.Data.SqlClient.TdsParser.ThrowExceptionAndWarning(TdsParserStateObject stateObj, Boolean callerHasConnectionLock, Boolean asyncClose)
at System.Data.SqlClient.TdsParser.TryRun(RunBehavior runBehavior, SqlCommand cmdHandler, SqlDataReader dataStream, BulkCopySimpleResultSet bulkCopyHandler, TdsParserStateObject stateObj, Boolean asyncClose, Boolean& byProduct)
at System.Data.SqlClient.SqlDataReader.TryConsumeMetaData()
at System.Data.SqlClient.SqlDataReader.get_MetaData()
at System.Data.SqlClient.SqlCommand.FinishExecuteReader(SqlDataReader ds, RunBehavior runBehavior, String resetOptionsString)
at System.Data.SqlClient.SqlCommand.RunExecuteReaderTds(CommandBehavior cmdBehavior, RunBehavior runBehavior, Boolean returnStream, Boolean async, Int32 timeout, Task& task, Boolean& usedCache, Boolean asyncWrite, Boolean inRetry, SqlDataReader ds, Boolean streamConsumed, Boolean& dataStreamConsumed)
at System.Data.SqlClient.SqlCommand.RunExecuteReader(CommandBehavior cmdBehavior, RunBehavior runBehavior, Boolean returnStream, Boolean async)
at System.Data.SqlClient.SqlCommand.RunExecuteReader(CommandBehavior cmdBehavior, RunBehavior runBehavior, Boolean returnStream)
at System.Data.SqlClient.SqlCommand.ExecuteReader(CommandBehavior behavior, String method)
at System.Data.SqlClient.SqlCommand.ExecuteReader(CommandBehavior behavior)
at System.Data.Common.DbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, IDbCommand dbCommand, CommandBehavior behavior)
at System.Data.Common.DbDataAdapter.Fill(DataTable[] dataTables, Int32 startRecord, Int32 maxRecords, IDbCommand dbCommand, CommandBehavior behavior)
at System.Data.Common.DbDataAdapter.Fill(DataTable dataTable)
at ApplicationSuite.Data.Database.QueryExecutor.ExecuteNonQuery(String sql, SqlParameter[] parameters, TimeSpan timeOut)
at ApplicationSuite.Data.Database.QueryExecutor.ExecuteNonQuery(String sql, SqlParameter[] parameters)
at ApplicationSuite.Data.Database.QueryExecutor.ExecuteNonQuery(String sql)
at ApplicationSuite.Data.DatabaseSchema.Rename(String newName) }
```

Cause:

This error happens because the user used to connect to SQL Server is missing a required permission, i.e. the permission to execute the `sp_detach_db` stored procedure.

Since SQL Server 2008 this permission is granted by default (on a fresh install) to every user that can connect to the SQL Server instance, but earlier versions could have different default values (and upgrading an older version of SQL Server to a newer one keeps the old default settings).

To verify that the user has this permission you can log into SQL Server with that same user and run this script:

```
SELECT
    'Can execute ''sp_detach_db''' AS [Requirement],
    CASE WHEN HAS_PERMS_BY_NAME('sp_detach_db', 'OBJECT', 'EXECUTE') = 1 THEN 'OK' ELSE 'MISSING' END AS [Status]
```

Solution:

Grant the user the permission to execute the `sp_detach_db` stored procedure.

As an example you can run the following script as a SQL administrator, and replacing `imagicleUser` with the actual username:

```
USE [master]
CREATE USER [imagicleUser] FOR LOGIN [imagicleUser]
GRANT EXECUTE ON sp_detach_db TO [imagicleUser]
```