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SCS_Backup Procedure for MS Access, MS SQL (32/64 Bit).

Version 0. 1

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A decorative graphic at the bottom of the page consisting of several overlapping, wavy lines in shades of light blue and cyan, creating a sense of motion and depth.

Revision History

Name	Date	Reason For Changes	Version
MDH	23-Sept-10	Initial document	0.1

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1. Reason for changes

Currently Softwin3 utilises PKZIP for its backup, this is no longer a freely redistributable application. After some research 7-Zip seems to be the most viable alternative. Further a backup procedure was needed for the SQL databases.

2. Requirements

The following requirements are needed:

1. 7-Zip to compress the backup(7-zip comes in 32 bit and 64 bit)
2. SQL management studio in order to setup the SQL stored Procedure.

3. Setup access 32/64 bit

- a. Ensure that 7-zip is installed in program files
- b. Create a batch file with the following:

```
echo off
cd\
md \softwin3\backup
md \softwin3\backup\temp

cd\softwin3\backup

if exist database.3 del database.3
if exist database.2 ren database.2 *.3
if exist database.1 ren database.1 *.2
if exist database.zip ren database.zip *.1

if exist config.3 del config.3
if exist config.2 ren config.2 *.3
if exist config.1 ren config.1 *.2
if exist config.zip ren config.zip *.1

cd \softwin3\backup\temp
copy c:\softwin3\database\*.mdb
cd C:\Program Files\7-Zip
7z a c:\softwin3\backup\database.zip c:\softwin3\backup\temp\*.mdb

cd \softwin3\backup
del /q temp
rmdir temp

md \softwin3\backup\temp

cd \softwin3\backup\temp
copy c:\softwin3\config\*.mdb
cd C:\Program Files\7-Zip
7z a c:\softwin3\backup\config.zip c:\softwin3\backup\temp\*.mdb

cd \softwin3\backup
del /q temp
rmdir temp
```

- c. Name the batch file backup.bat
- d. Run batch file to test.

4. MS SQL 32\64 bit

- a. Ensure that 7-zip is installed in program files
- b. Create a batch file with the following:

```
echo off
cd\
md \softwin3\backup
md \softwin3\backup\temp
```

```
cd\softwin3\backup
```

```
if exist config.3 del config.3
if exist config.2 ren config.2 *.3
if exist config.1 ren config.1 *.2
if exist config.zip ren config.zip *.1
```

```
cd \softwin3\backup\temp
copy c:\softwin3\config\*.mdb
cd C:\Program Files\7-Zip
7z a c:\softwin3\backup\config.zip c:\softwin3\backup\temp\*.mdb
cd \softwin3\backup
del /q temp
rmdir temp
```

```
"C:\Program Files\Microsoft SQL Server\100\Tools\Binn\sqlcmd.exe" -E -S
ServerName\instance -d DB_SOFTCON_DATA -Q "exec Sp_BackupDatabases" **
```

** replace {server name} with the sql server\instance name

** ensure the path exists the SQLCMD.exe might be located in another sql directory.

EG: C:\Program Files\Microsoft SQL Server\100\Tools\Binn\SQLCMD.EXE

- c. In SQL server Management studio
- d. Browse to databases\DB_SOFTCON_DATA\Programmability\Stored Procedures
- e. Right click on stored Procedures and select 'new Stored Procedure'

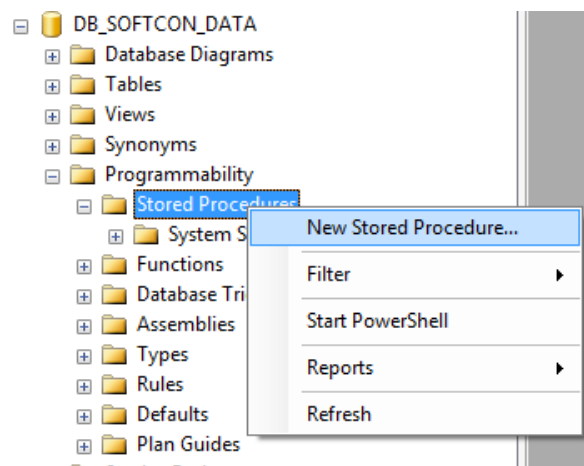


Figure 1: New Stored Procedure

- f. Replace all the current text with:

```
USE [DB_SOFTCON_DATA]
```

```
GO
```

```
/* Object:  StoredProcedure
[dbo].[sp_BackupDatabases]    Script Date: 09/23/2010
04:36:07 */
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE PROCEDURE [dbo].[sp_BackupDatabases]
```

```
AS
```

```
BEGIN
```

```
    SET NOCOUNT ON;
```

```
    DECLARE @sqlCommand NVARCHAR(1000)
```

```
    DECLARE @dateTime NVARCHAR(20)
```

```
    SELECT @dateTime = REPLACE(CONVERT(VARCHAR,
    GETDATE(),111), '/', '') +
```

```
        REPLACE(CONVERT(VARCHAR, GETDATE(),108), ':', '')
```

```
    /* backup DB_SOFTCON_ACCUME */
```

```
    SET @sqlCommand = 'BACKUP DATABASE
    DB_SOFTCON_ACCUME' +
```

```
        ' TO DISK =
    'C:\Softwin3\Backup\DB_SOFTCON_ACCUME_' + @dateTime +
    '.BAK'''
```

```
    EXECUTE sp_executesql @sqlCommand
```

```
    /* backup DB_SOFTCON_AUDIT */
```

```
    SET @sqlCommand = 'BACKUP DATABASE
    DB_SOFTCON_AUDIT' +
```

```

        ' TO DISK =
        'C:\Softwin3\Backup\DB_SOFTCON_AUDIT_' + @dateTime +
        '.BAK'''

EXECUTE sp_executesql @sqlCommand

/* backup DB_SOFTCON_DATA */

SET @sqlCommand = 'BACKUP DATABASE
DB_SOFTCON_DATA' +

        ' TO DISK = 'C:\Softwin3\Backup\DB_SOFTCON_DATA_'
+ @dateTime + '.BAK'''

EXECUTE sp_executesql @sqlCommand

/* backup DB_SOFTCON_LOGGING */

SET @sqlCommand = 'BACKUP DATABASE
DB_SOFTCON_LOGGING' +

        ' TO DISK =
        'C:\Softwin3\Backup\DB_SOFTCON_LOGGING_' + @dateTime +
        '.BAK'''

EXECUTE sp_executesql @sqlCommand

END

```

- g. Click the execute
- h. Verify the command executed successfully by looking at the messages window.

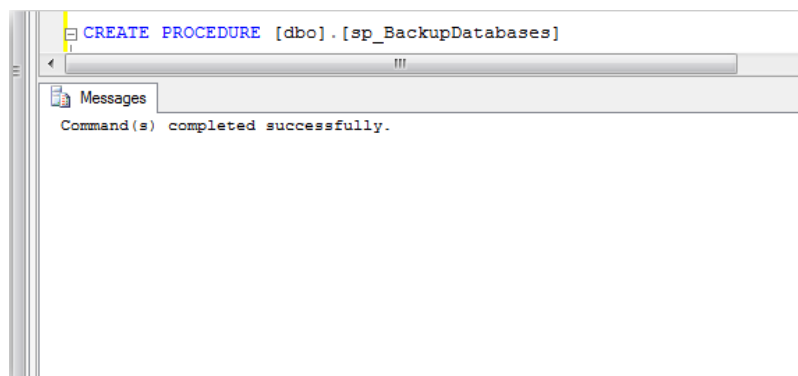


Figure 2: Messages window

- i. Right click on Stored Procedures and select refresh. A new stored procedure should now be visible under Stored Procedures called 'dbo.sp_BackupDatabases'