

Setup

1. Go to the host **SmarterASP**
2. Make sure you have a subdomain created on the host (*the SmarterASP website*).
(See quick guide for [Creating a Subdomain](#) for steps on how to complete this)

***Complete the steps below only if you are deploying a data driven site. If your site is not data driven, go to File Transfer.**

Database Deployment

1. Create a live database:
 - a. Login to **SmarterAsp**
 - b. Click on **Databases tab**, then **MSSQL**.
 - c. Click the “**+Add Database**” button (top right-hand corner).
 - d. Make the following **selections**:
 - i) Database Type: **MSSQL 2016**
 - ii) Database Name: **Enter a name for the database**
(try to name it the **same** as your local database for consistency)
 - iii) Database Password: **Enter a password**
(try to use a **different** password than the one you login to SmarterAsp with)
 - iv) DB Disk Quota: **50**
(can be adjusted to fit the project, but this will be used for **portfolio projects**).
2. Check data in your local database (**delete any “junk data” main tables first and then** look up tables which is the inverse way of **populating** tables). Completed in **SSMS**
3. Create a Backup Script of your Database using (.\sqlexpress) . Completed in **SSMS**.
 - a. **Right click** on the **Database** in object explorer
 - b. Select **tasks**
 - c. **Generate Scripts**
 - d. Select a **location** to store the script*

Note: There are some who would **store this script in the Archive folder. This is a fallback script. If you re-run it at any point in time, it will **overwrite your existing data structure, including Identity**.*

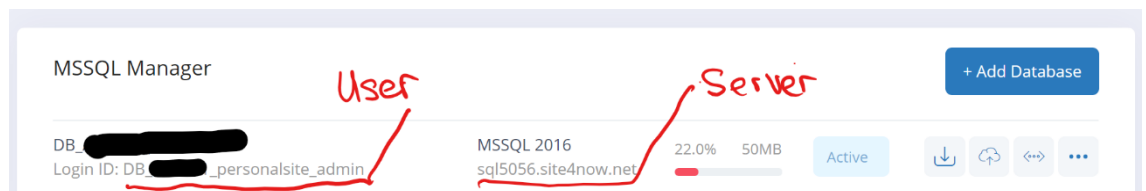
- e. Click “**Advanced**”

- f. **Make the following updates:**
 - i) **Check for Object Existence = true**
(if statements prevent errors for the drop statements below)
 - ii) **Script DROP and CREATE = Script DROP and CREATE**
(replaces the data structure or “schema”)
 - iii) **Use Database = false**
(defaults to the selected data structure in SSMS)
 - iv) **Types of Data to script = Schema and Data**
(scripts BOTH data AND table/relationships structure)
- g. Click **Next** until you see the **green check marks**, then click **Finish**.

4. Executing your script in **SSMS**:

- (a) Log in to SmarterASP
- (b) Click on **Databases**
- (c) Click on **MSSQL**, and
- (d) Locate the **database** for your project.

**The server name will appear at the bottom of the second column and the username will be at the bottom of the first column.
See screenshot below.*



- (a) Log into SSMS with your **Live DB Credentials**.

**Note that you will have to change the Authentication dropdown to SQL Server Authentication to see the inputs for username and password.*

- (b) Click **File > Open > File**.
- (c) **Navigate to the backup script** (generated in the previous step) and click **open**.
- (d) Check that the correct database is selected in the dropdown list (at the top).
- (e) Click **execute***

**You should see multiple entries in the output window that says ‘One Row Affected’.*

If you see error messages, that doesn’t necessarily mean the execution failed. Try refreshing the database in the Object explorer and checking if all tables are there and have data.

Connection String Examples

Example Part 1 of 2

1. Open your project in **Visual Studio**
 - a. navigate to the **web.config** file (in the root folder of the UI Layer project).
 - b. Find the **<connectionStrings>** tag.
 - c. **Make a note above** your connection strings. Label them as **“Local Testing Connection Strings”**.
 - d. **Make a note below** your local connection strings. Label them as **“Live Connection Strings (SmarterAsp)”**.
 - e. **Copy both of your local connection strings**.
 - f. Paste them below the “Live Connection Strings (SmarterAsp)” note.
 - g. Next you will update the live connection strings using information from SmarterAsp. **The areas highlighted below in yellow is what you will be changing.**

```
<add name="uStoreEntities" connectionString="metadata=res://*/TSTModel.csdl|res://*/TSTModel.ssdl|res://*/TSTModel.msl;provider=System.Data.SqlClient;provider connection string="data source=.\sqlexpress;initial catalog=uStore;integrated security=True;MultipleActiveResultSets=True;App=EntityFramework";" providerName="System.Data.EntityClient" />
<add name="DefaultConnection" connectionString="Data Source=.\sqlexpress;Initial Catalog=Bookstore;Integrated Security=true" providerName="System.Data.SqlClient" />
```

Example Part 2 of 2

1. Log in to SmarterAsp
 - a) Click on the **Databases** tab
 - b) Select **MSSQL**.
 - c) **Locate** the database you **created for your project**
Click on the icon that looks like ‘<...>’.
 - d) Copy the text under the **ASP.NET header**.
*Note: There is an opening **“(double quote)”** but no closing **“(double quote)”**. It is best to just copy the text without the opening **“(double quote)”**.
 - e) In your live connection strings, paste the information you just copied over the areas highlighted in yellow in the images above.

- f) Update the value for the password to the actual password for your live database.

Ensure that only one set of connection strings is uncommented at a time. For example, if you are deploying your project, then the live connection strings should be uncommented and the local connection strings should be commented out.

File Transfer

1. File Transfer in **FileZilla**

- a. Login to SmarterASP

- b. Navigate to the appropriate Subdomain in the list on the Websites tab.

- c. Click the “...” button, then **FTP Access**.

(This will bring up a pop-up that shows the information you will need to transfer files through FileZilla).

- d. Open FileZilla. Click on the icon **directly under File** in the main navigation bar.

- e. Click **New Site** and **give it a name**.

- f. **Add** the following information:

- i) **Protocol:** FTP – File Transfer Protocol
- ii) **Host:** ftp.site4now.net
- iii) **Port:** blank
- iv) **Encryption:** Only use plain FTP (insecure)
- v) **Logon Type:** Normal
- vi) **User:** username as shown on SmarterASP.net
- vii) **Password:** same password you use to login to SmarterASP.net
- viii) Click on the **Advanced** tab
- ix) Browse to find the **local directory** where your files are stored
- x) **Default Remote Directory:** \[name of folder shown on SmarterASP.net]
- xi) Click **Connect**

- g. **Select** the appropriate files from the bottom left-hand side of the screen (**local**).

- h. **Drag** them to the bottom right-hand side of the screen (**remote**).

Watch for any failed transfers.

- i. Test the live application.

- i) Check your **write Access** at the host (the **SmarterAsp** website).

** If you are allowing for file uploads, ensure that users (**application pool**) have **access** to the folder with **Write Capability**. Otherwise, your file upload will **fail** live.*

- j. After deployment – update the connection strings (complete in VS2017)

- i) Open the web.config in the root folder of the UI project.
 - ii) Switch from Live (Hosted) - **comment out**
 - iii) To Local - **uncomment**

We always **develop locally then **deploy live**. If you leave your connection strings pointed at the host, you are updating your **LIVE** data.*