# **D.2** Spider Deployment Instructions

This Section presents the deployment guide to install the Spider component.

# **D.2.1** Software Requirements

- Windows Server (Preferably version 2008 or newer).
- .NET Framework versions 3.5, 4 and 4.5.
- Microsoft SQL Server 2008, preferably 2012, (also works with SQL Server express but there is a limit of 4GB to the size of the database).
- Microsoft IIS web server.

## **D.2.2** Instructions

#### 1. Microsoft IIS web server

- (a) Install IIS from the add/remove software menu of Windows server.
- (b) Open the IIS Control panel, and click on the Windows Platform Installer Icon. From there, you are able to install all .NET versions as well as the MVC4 library.
- (c) Enable Windows Communication Foundation (WCF) Library.
- (d) Enable **HTTP** activation.
- (e) All .NET versions should have the same settings.

### 2. Microsoft SQL server

- (a) Install the Microsoft SQL server following standard installation procedure (CDROM installation setup).
- (b) Use the **BlogForever Spider database deployment script** deploy.sql which creates the initial database structure.

#### 3. BlogForever Spider Web component

- (a) Extract the BlogForever spider zip file in the IIS web folder (c:/inetpub/wwwroot/Spider by default).
- (b) Open the IIS control panel, right click on the folder and select **Convert to Application**. (All the files beneath this folder are parts of a web application, if not it is not accessible).
- (c) Setup database connection. Edit the **web.config** file inside the Spider web folder, containing the database connection string which has to be modified according to server settings.

### 4. BlogForever Web Crawler component

(a) Extra the BlogForever Crawler zip file in a selected folder.

- (b) Note that The default file storage location of the spider executable is in a subfolder below its location.
- (c) Edit **CW.CrawlerSystem.ConsoleApp.exe.config** file to setup database connection string
- (d) Furthermore, inside the AppSettings there are important application variables.
  - i. **EntityStorage** is the folder location of the entities the crawler extracts,
  - ii. SourcesStorage is the location of the sources description,
  - iii. WebRequestCache is used to cache every HTTP request result, expiration time is 10min (this is necessary for HTTP traffic optimisation)
  - iv. UserAgent is a copy of the Opera UserAgent,
  - v. **mexHttpBinding** is the description of all the network services that this program provides,
  - vi. baseAddress it the address of mexHttp
  - vii. SvcConfigEditor is used to define new endpoint connections towards a service. You can use the same application to configure your client towards a service or the other way round. Example of service description is in this address: http://bf4.itc.auth.gr/Spider/SpiderService.svc
  - viii. maxStringContentLength and maxString should not be modified.
- (e) Execute the CW.CrawlerSystem.ConsoleApp.exe to run the crawler.