

Quantum Enterprises – self-hosted webservice

For customers with high-volume Scriptalizing needs, Quantum Enterprises offer a license to self-host the webservice to offload work to the customers' own servers, by-passing volume limits imposed on the public webservice to protect throughput and performance for all customers.

The enclosed package includes all custom software required to run this self-hosted webservice, but there are a number of settings that will need to be configured by the customer. This document details the system requirements, setup steps and placeholder values that need to be tailored by the customer. Some knowledge of IIS and ASP.Net is assumed as a pre-requisite.

The webservice runs as an ASP.Net webservice, with an associated DLL library, under IIS on Windows. It should be compatible with IIS7.x, IIS8.x and IISExpress (the latter meaning it can be readily installed on a workstation rather than server edition of Windows). In the following, **references to “the server” should be taken to mean the machine hosting the service, even if that is a workstation edition running IISExpress**. This guide does not cover the installation of an appropriate IIS version. Microsoft .Net Framework v4.5 or higher (but not v5) should be installed on the server.

Note that although all scriptalization is done locally on your server, the DLL will make an initial “call home” to Quantum Enterprises to verify your license. Your server will therefore require an internet connection; however this verification call is made only on the first call to the webservice after each system startup or application pool recycle. Bandwidth required is therefore negligible and a slow connection should not materially affect performance.

It's recommended, but not essential, that the service is installed on a separate subdomain. In the following, **references to “subdomain” should be taken to include the website domain if you are not using a separate subdomain**. If direct access to the target server is available, for instance via RDP, TeamViewer or similar (or via a control panel such as Plesk), the system can be configured “in place”; if running on a shared host with only FTP access, it's recommended that the software be configured locally and only then uploaded.

To install the software and configure IIS, follow these steps:

1. Create your IIS subdomain and bind it to an IP Address, Host Name and/or Port as required. Create a website directory if required and set it as the physical path for your subdomain. Unzip the files in the attached ZIP file into the root of this website folder
2. Create a dedicated application pool, in **Integrated mode**, and associate it with the subdomain. Make sure it is using **.NET CLR version v4.0.30319**
3. If you are running on 64-bit hardware, and have no 32-bit software components on the subdomain then you can use the 64-bit version of the DLL; leave the **Enable 32-bit applications** option on the application pool unchecked. If you are running on 64-bit hardware but have other 32-bit

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- DLLs in the subdomain, you should use the 32-bit version of the Scriptalizer DLL and will need to tick the **Enabled 32-bit applications** checkbox on the application pool
4. If you are using the 64-bit version of Scriptalizer, delete the file “QuantumScriptalizer32.DLL” from the /bin folder; conversely if you are using the 32-bit version, delete the file “QuantumScriptalizer64.DLL” from the /bin folder
 5. Make sure that the /App_Data folder has at least **read, write** and **modify** permissions for the account the application pool is running under (normally **ApplicationPoolIdentity**)
 6. All other settings can be left at the IIS defaults

The remaining configuration is dependent on your specific requirements. The following need to be changed from their default placeholder settings:

1. Edit the **\App_Data\Licenses.txt** file, replacing the placeholder GUID value with the license key GUID issued to you by Quantum Enterprises.
2. Edit the **\web.config** file:
 - a. If you wish to receive error reports by email in the event of software problems, enter your email address as the value of the **SupportEmailTo** setting in the appSettings section; and enter your SMTP sending email address and credentials in the **System.Net / mailSettings / smtp** section. (If you don't want to receive these diagnostic emails, you should **delete** the me@mydomain.com placeholder in the SupportEmailTo setting).
 - b. Note that the file **\App_Data\Users.txt** should **not** be modified, although it appears to contain only placeholder data
3. Add any custom fonts and their associated configuration files to the /Users/MyFonts folder; Quantum Enterprises will supply these to you separately from the self-hosting webservice package.

You can test the operation of the webservice via a browser. Point it to **/QuantumScriptalize.asmx** on your subdomain. You should see the auto-generated list of available methods; in this case, just **Scriptalize**. Click that link and you will see a test form. Enter the appropriate details and click **Invoke**. (Note that you must enter a numeric value in the ErrFrequency field; that is not validated by ASP.Net's webservice stub).

If the page throws an error or displays an error status, you should be able to use the diagnostics emailed to you (if you setup an email address in the \web.config SupportEmailTo setting). Whether an email is sent or not, diagnostics can also be found in the **\App_Data\Logs** folder. A new log file is created each day, and contains details of error events and logs of system startups/shutdowns etc.

If you're unable to resolve any configuration issues yourself, paid support is available by contacting Quantum Enterprises.