

Contents

1.	Introduction	3
1.1	Subject of description	3
1.2	Target audience.....	3
2.	WebIUS Workstation.....	4
2.1	Installation of «WebIUS Workstation Application».....	4
2.2	Configuration file «WebIUS Workstation».....	5
3.	WebIUS Updater DB	6
3.1	Oracle DB Initialization.....	6
3.2	MongoDB Initialization.....	6
4.	WebIUS Updater Agent.....	7
4.1	Installation of «Agent»	7
4.2	Installation of «Agent» in Silent install mode	8
4.3	Configuration file «Agent».....	8
A.	Example of the configuration file «WebIUS Workstation»	11
B.	Example of the configuration file «WebIUS Agent»	14

1. Introduction

1.1 Subject of description

This document contains instructions for installing software complex «WebIUS».

1.2 Target audience

The target audience is professionals whose duties involve planning and implementing the system deployment.

2. WebIUS Workstation

2.1 Installation of the «WebIUS Workstation Application»

Installing the «**Workstation**» involves configuring the server, which consists of several steps. The first step is to install **.NET Framework 3.5** and **.NET Framework 4.5.2** components, then restart the server.

To make exporting/importing web applications more convenient, you can then start installing the «**WebDeploy**» package (select «**Complete**» if prompted for the type of installation) and reboot the server.

If you need to use HTTPS and no valid certificate has been issued by a certification authority, you can use a self-signed certificate.

Next, you need to configure IIS. To do this, you need to configure the application pool in IIS. When creating a new pool, you should specify the name and Net CLR version according to figure 1. Then, create a site and deploy the application from the archive, or export the web application to its directory using «**WebDeploy**». After this, configure the HTTP/HTTPS protocols and ports.

If you are using HTTPS, you will need to add a certificate to enable SSL.

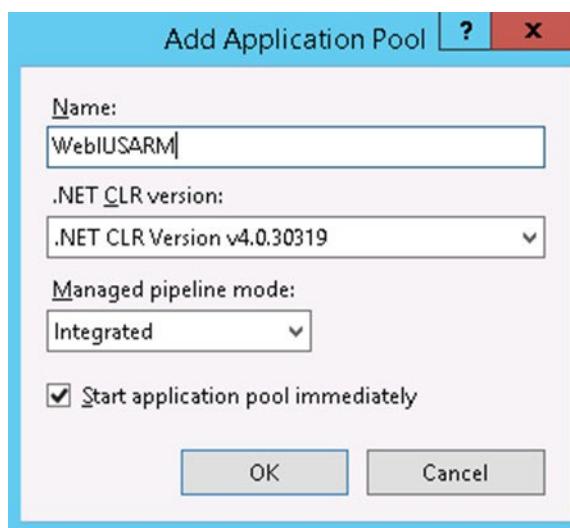


Fig. 1 - Application Pool configuration window

At the end of the installation process, edit the following configuration file settings for «**WebIUSARM**»:

- **DBTYPE**, the database type used is Oracle or Mongo;
- DBMS connection parameters: you need to specify the host, port, user ID and password:
 - when using Oracle DBMS: **oracleIdentity**;
 - when using Mongo DBMS, use: **mongoIdentity**.

2.2 Configuration file «WebIUS Workstation»

The configuration file is located in the working folder «**Workstation**»
«**C:\inetpub\wwwroot\WebIUSARM\Web.Config**».

Configuration file parameters can be changed:

- **<oracleIdentity>** - a section containing the Oracle DBMS connection string.

```
<oracleIdentity "ConnectionString": "Data  
Source=(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP) (HOST=<ip-  
host>) (PORT=<port-host>)) (CONNECT_DATA=(SERVICE_NAME=  
WebIUS)); User id=<id>;  
Password=<password>;"></oracleIdentity>
```

- **<mongoIdentity>** - A section containing the connection string to the MongoDB.

```
<mongoIdentity DBName="webiusDB" address="<ip>"  
port="<port>"></mongoIdentity>
```

- **<DBSettings>** - a section containing the DBMS type.

```
<DBSettings DBTYPE="mongo"></DBSettings>
```

For more information about configuring the ASP.NET application, see the [link](#).

An example of a configuration file is shown in Appendix A.

3. WebIUS Updater DB

3.1 Oracle DB initialization

For more information on the installation of Oracle DBMS, please contact:

[Oracle installation \(Windows\)](#)

[Oracle installation \(Linux\)](#)

After installation of DBMS it is necessary to initialize the database «**Oracle**».

To do this, you need to run the scripts for creating a table space, tables, and entering primary data, located in the distribution «**WebIUS Workstation Application**» in the directory «**DBscripts/Oracle**» in the following sequence:

- 1) Create Schema.sql
- 2) export.sql

3.2 MongoDB Initialization

For instructions on installing MongoDB you can go to:

[Install MongoDB](#)

After installing the DBMS, it is necessary to initialize the «**MongoDB**» database. To do this, you need to run the script for creating a table space, tables, and input of primary data - «**installScript[version].json**» located in the distribution «**WebIUS Workstation Application**».

4. WebIUS Updater Agent

4.1 Installation of «Agent»

«Agent» is a Windows Service called «**WebIUS Updater**».

The working directory of «Agent» is «**C:/WebIUSUpdater**».

To install «Agent» you need to move «**WebIUS Updater.exe**» to disk «C: » US. Then you need to run the file as administrator and in the window that opens go to fill in connection settings (see Fig. 1):

- In the «**Connection String**» field, enter the address and port of the server being used.
- In the «**User Name**» field, enter device ID.
- In the «**User Password**» field, enter the password of the ATM registered in «**Workstation**».

After installation, the installer window will display the status of the connection to the server (see Fig. 2).

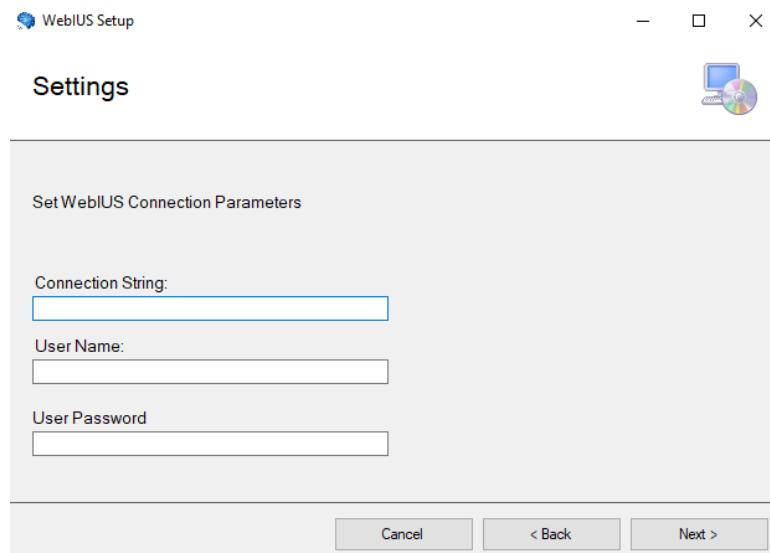


Fig. 1 - Connection options

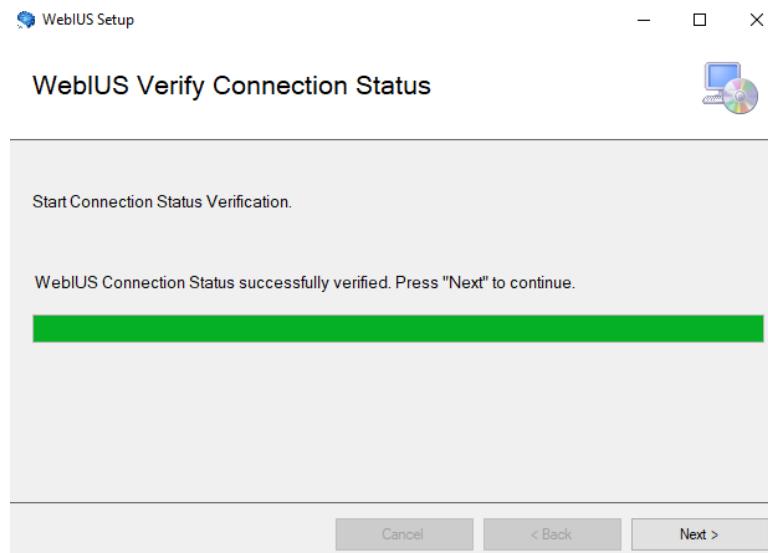


Fig.2 - Server connection status

4.2 Installing «Agent» in Silent install mode

Silent install – is the «Agent» installation from command line.

To install in this mode you need to enter the following command:

```
WebIUSInstall.exe --webiususr 12345 --webiuspas
12345678901234567890 --connectstring https://192.168.0.0:443 [--UseNDATMNumber] [--MakeATMNumberInt]
```

If you specify «--UseNDATMNumber» you do not need to write «--webiususr 12345».

To format the string «-- webiususr 012345 » in «-- webiususr 12345» you need to use «-- MakeATMNumberInt».

4.3 «Agent» configuration file

The configuration file is located in the working folder of **«Agent»** **«C:\WebIUSUpdate\WebIUSUpdateConfig.json»**.

Configuration file parameters

- **regFolder** – is the registry working folder.

Type: string.

```
"regFolder": "<path>", //<path> - registry working folder
```

- **logMode** – Logic level.

Type: integer.

```
"logMode": 0, //TRACE = 0, DEBUG = 1, ALERT = 2,
NONE = 3
```

- **logPath** – the directory where logs are stored.

Type: string.

```
"logPath": "<path>", //<path> - directory where logs are
stored
```

- **pingTimeout** – frequency of server calls (in minutes).
Type: double.
`"pingTimeout": 0.3,`
- **backUpPath** – backup directory, when updating the «Agent»
Type: string.
`"backUpPath": "<path>", //<path> - the backup directory`
- **downloadFolder** – The directory where files downloaded by «Agent» are saved.
Type: string.
`"downloadFolder": "<path>", //<path> - directory of downloaded files`
- **customActionsRootFolder** – Process working folder when executing Actions.
Type: string.
`"customActionsRootFolder": "<path>", //<path> - directory of downloaded files`
- **actionTimeOut** - Maximum Action runtime, in minutes. Cannot be edited.
Type: string.
`"actionTimeOut": "5",`
- **deleteWUZombiesTimeout** – Timeout is the maximum time to delete old files.
Cannot be edited.
Type: double.
`"deleteWUZombiesTimeout": 60.0,`
- **connectionString** – is the connection address.
Type: string.
`"connectionString": "<url>", //<url> - connection address`
- **tls** –TLS version.
Type: integer.
`"tls": 768,`
- **ConnectTimeout** – is the maximum connection time to the server (in seconds).
Type: integer.
`"connectTimeout": 100,`
- **useProxy** – Proxy server usage setting
Type: bool.
`"useProxy": false, //proxy server not used`
- **proxyAddress** – proxy server address.
Type: string.
`"proxyAddress": "<ip>", //<ip> - address`
- **proxyPort** – proxy server connection port.
Type: integer.
`"proxyPort": <port> //<port> - порт`

An example of a configuration file is shown in [Appendix B.](#)

A. Example of the «WebIUS Workstation» configuration

file»

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
    <configSections>
        <section name="oracleIdentity"
type="WebIUSARM.Config.oracleIdentity"/>
        <section name="ftpIdentity"
type="WebIUSARM.Config.ftpIdentity"/>
        <section name="mongoIdentity"
type="WebIUSARM.Config.mongoIdentity"/>
        <section name="DBSettings"
type="WebIUSARM.Config.DBSettings"/>
    </configSections>
    <appSettings>
        <add key="webpages:Version" value="3.0.0.0"/>
        <add key="webpages:Enabled" value="false"/>
        <add key="ClientValidationEnabled" value="true"/>
        <add key="UnobtrusiveJavaScriptEnabled" value="true"/>
    </appSettings>
    <system.web>
        <compilation targetFramework="4.5.2"/>
        <httpRuntime targetFramework="4.5.2"
maxRequestLength="10240000" executionTimeout="3600"/>
        <customErrors mode="Off" defaultRedirect="~/Error">
            <error redirect="~/Error/NotFound" statusCode="404"/>
        </customErrors>
    </system.web>
    <system.webServer>
        <security>
            <requestFiltering>
                <!-- maxAllowedContentLength is in bytes (B) -->
                <requestLimits maxAllowedContentLength="1073741824"/>
                <!-- 5MB -->
            </requestFiltering>
        </security>
    </system.webServer>
    <runtime>
        <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
            <dependentAssembly>
                <assemblyIdentity name="Newtonsoft.Json"
culture="neutral" publicKeyToken="30ad4fe6b2a6aeed"/>
                <bindingRedirect oldVersion="0.0.0.0-9.0.0.0"
newVersion="9.0.0.0"/>
            </dependentAssembly>
        </assemblyBinding>
    </runtime>
</configuration>
```

```

<dependentAssembly>
    <assemblyIdentity name="System.Web.Optimization"
publicKeyToken="31bf3856ad364e35"/>
    <bindingRedirect oldVersion="1.0.0.0-1.1.0.0"
newVersion="1.1.0.0"/>
</dependentAssembly>
<dependentAssembly>
    <assemblyIdentity name="WebGrease"
publicKeyToken="31bf3856ad364e35"/>
    <bindingRedirect oldVersion="0.0.0.0-1.5.2.14234"
newVersion="1.5.2.14234"/>
</dependentAssembly>
<dependentAssembly>
    <assemblyIdentity name="System.Web.Helpers"
publicKeyToken="31bf3856ad364e35"/>
    <bindingRedirect oldVersion="1.0.0.0-3.0.0.0"
newVersion="3.0.0.0"/>
</dependentAssembly>
<dependentAssembly>
    <assemblyIdentity name="System.Web.WebPages"
publicKeyToken="31bf3856ad364e35"/>
    <bindingRedirect oldVersion="1.0.0.0-3.0.0.0"
newVersion="3.0.0.0"/>
</dependentAssembly>
<dependentAssembly>
    <assemblyIdentity name="System.Web.Mvc"
publicKeyToken="31bf3856ad364e35"/>
    <bindingRedirect oldVersion="1.0.0.0-5.2.3.0"
newVersion="5.2.3.0"/>
</dependentAssembly>
<dependentAssembly>
    <publisherPolicy apply="no"/>
    <assemblyIdentity name="Oracle.ManagedDataAccess"
publicKeyToken="89b483f429c47342" culture="neutral"/>
</dependentAssembly>
</assemblyBinding>
</runtime>
<system.codedom>
    <compilers>
        <compiler language="c#;cs;csharp" extension=".cs"
type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpC
odeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform,
Version=1.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35"
            warningLevel="4" compilerOptions="/langversion:6
/nowarn:1659;1699;1701"/>
    
```

```

<compiler language="vb;vbs;visualbasic;vbscript"
extension=".vb"

type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeP
rovider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform,
Version=1.0.0.0, Culture=neutral,
PublicKeyToken=31bf3856ad364e35"
    warningLevel="4" compilerOptions="/langversion:14
/nowarn:41008 /define:_MYTYPE="Web" /optionInfer+"/>
</compilers>
</system.codedom>
<oracleIdentity ConnectionString="Data
Source=(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP) (HOST=<ip>) (PORT=<por
t>)) (CONNECT_DATA=(SERVICE_NAME=EBS))); User
Id=<id>;Password=<password>;"></oracleIdentity>
<ftpIdentity address="ftp://127.0.0.1//"
ftpUserName="anonymous" ftpUserPass="anonymous"></ftpIdentity>
<mongoIdentity DBName="webiusDB" address="<ip>"
port=<port>"></mongoIdentity>
<DBSettings DBTYPE="mongo"></DBSettings>
<system.data>
    <DbProviderFactories>
        <remove invariant="Oracle.ManagedDataAccess.Client"/>
        <add name="ODP.NET, Managed Driver"
invariant="Oracle.ManagedDataAccess.Client" description="Oracle
Data Provider for .NET, Managed Driver"
type="Oracle.ManagedDataAccess.Client.OracleClientFactory,
Oracle.ManagedDataAccess, Version=4.122.19.1, Culture=neutral,
PublicKeyToken=89b483f429c47342"/>
    </DbProviderFactories>
    </system.data>
</configuration>
<!--ProjectGuid: 7A7CC988-C169-4D1B-93BE-20921160CFA3-->
```

B. Example of the «WebIUS Agent» configuration file

```
{  
    "regFolder": "<string>",  
    "logMode": <integer>,  
    "logPath": "<string>",  
    "pingTimeout": <double>,  
    "backUpPath": "<string>",  
    "downloadFolder": "<string>",  
    "customActionsRootFolder": "<string>",  
    "actionTimeOut": "<string>",  
    "deleteWUZombiesTimeout": <double>,  
    "connectionString": "<string>",  
    "tls": <integer>,  
    "connectTimeout": <integer>,  
    "useProxy": <bool>,  
    "proxyAddress": "<string>",  
    "proxyPort": <integer>  
}
```