

Web applications

Installation

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1. Required Windows components

The following Windows components are required to install a web application.

- Serwer IIS (Internet Information Services)
- Serwer SQL, if the application uses a separate database

1.1. Serwer IIS (Internet Information Services)

Depending on the type of Windows system, there are different ways to install IIS server. However, the server components required for the application are common. Here I will give an example for Windows 10.

Open the Control Panel and select Programs.



Then select Windows Features.

Programs and Features Uninstall a program Turn Windows features on or off View installed updates Run programs made for previous versions of Windows How to install a program

Find Internet Information Services



Expand Internet Information Services and activate the following functions:

Internet Information Service

- Web Management Tools
 - IIS Management Console
- World Wide Web Services
 - Application Development Features
 - ✓ .NET Extensibility 4.8
 - ✓ ASP.NET 4.8
 - ✓ ISAPI Extensions
 - ✓ ISAPI Filters
 - Common HTTP Features
 - ✓ Default Document
 - ✓ Directory Browsing
 - ✓ HTTP Errors
 - ✓ Static Content
 - Health and Diagnostics
 - Custom Logging
 - ✓ HHTP Logging
 - ✓ Tracing
 - Performance Features
 - ✓ Dynamic Content Compression
 - ✓ Static Content Compression
 - Security
 - ✓ Basic Authentication
 - ✓ Request Filtering
 - ✓ Windows Authentication

1.2. Server SQL, SQL Management Studio

Serwer SQL z SQL Management Studio (optional depending on which database the application uses).

SQL Server Std/Ent SQL Server 2014 or later SQL Server Express SQL Server 2014 or later

2. Application installation

In the **C:\inetpub** directory, create a subdirectory for the application to be installed and copy all directory files to it. Alternatively, you can choose another location that is accessible to the IIS server.

Then start Internet Information Services (IIS) Manager and follow the next steps:

• If only one application will be installed on the IIS server, you can expand the Sites list and remove the Default site



• Add new Website



And complete the fields:

- o Site name
- o Physical path, that is, the place where the application directory was created earlier

o Port.

Port number 80 is a standard number and if there is only this one site on the server then you don't need to change it, if there are several sites then each site must have a different port number.

	DefaultAppPool	Select	
Content Directory			
Physical path:			
Pass-through authenticati	on		
Connect as Test S	ettings		
	5		
Binding			
Binding Type: IP a	ddress: Port:		

• Add write permissions to the App_Data (if exists) and Logs directories for the IIS_IUSRS group.



Select Security

App_Data Properties	×
General Sharing Security Previous Versions Customize	
Object name: C:\inetpub_DemoApp_\App_Data	
Group or user names:	
Secretaria CREATOR OWNER	^
SYSTEM	
ademo (DEMO\demo)	
	*
< >>	
To change permissions, click Edit. Edit	

Find group IIS_IUSRS.

If such a group is not on the list, add it and set write permissions.

<pre>IIS_IUSRS (DEMO\IIS_IUSF </pre>	RS)	> ×
	Add	Remove
Permissions for IIS_IUSRS	Allow	Deny
Read & execute List folder contents Read	201	
Write Special permissions		
ОК	Cancel	Apply

Activate the correct authorization type •

Select the application page and from the available options select under IIS, Authentication.





Authentication

Group by: No Grouping -		
Name	Status	Response Type
Anonymous Authentication	Enabled	
ASP.NET Impersonation	Disabled	
Basic Authentication	Disabled	HTTP 401 Challenge
Forms Authentication	Disabled	HTTP 302 Login/Redirect
Windows Authentication	Disabled	HTTP 401 Challenge
		Enable
	0	Help

3. Other application-specific settings

3.1. SIMSAlert

3.1.1 Web client

A license is required to run the application!

In the *Web.config* file, set the parameter ConnectionString:

data source= SQL server name initial catalog= SIMS database name (default NOX) Integrated security= False User Id= SQL user Password= SQL user password

Example: connectionString="data source=DEMOPC\SQLEXPRESS;initial catalog=NOX;Integrated security=False;User Id=demo;Password=demo;

3.1.2 Windows application SIMSAlert server

A license is required to run the application!

In the ArasAlarmServer.exe.config file, in the applicationSettings section, set the following parameters:

```
<setting name="Server" serializeAs="String">
        <value>127.0.0.1</value> SIMS server IP address
      </setting>
      <setting name="Port" serializeAs="String">
        <value>2010</value>
                                         Server IP port from SIMS Config
      </setting>
      <setting name="User" serializeAs="String">
        <value>234511wger</value>
                                        Encryption key for Client from SIMS Config
      </setting>
      <setting name="Operator" serializeAs="String">
        <value>demo</value>
                                         SIMS operator name
      </setting>
      <setting name="Password" serializeAs="String">
        <value>demo</value>
                                         SIMS operator password
      </setting>
      <setting name="ConnectionString" serializeAs="String">
                                                                    Connection string to SQL server
        <value>
             data source=DemoPC\SQLEXPRESS;
             initial catalog=NOX;
             Integrated security=False;
             User Id=demo;
             Password=demo;
             </value>
      </setting>
      <setting name="SmsSecret" serializeAs="String">
        <value>er4tAW657df=!0923</value>
                                                      SMS service provider license key
      </setting>
```

File	· · · · · · · · · · · · · · · · · · ·	
Gen	-Sustam sattings	(VCR Systems Addons
	System settings	101
	Installation name:	NOX
	Installation name: Server IP Port:	NOX 2010
	Installation name: Server IP Port: Comm. Module IP Port:	NOX 2010 3000

Add the following tables to the SIMS database using the attached SQL script **DbStruct.sql**:

- CnDefs
- CnSettings
- CnSmsList
- CnUserDef
- CnUsers

3.2. OneCode

A license is required to run the application!

In the *Web.config* file, in the *application* section, set the following parameters:

```
<!--application -->
<add key="SimsConnectorServer" value="127.0.0.1" /> SIMS server IP address
<add key="SimsConnectorPort" value="2010" /> Server IP port from SIMS Config
<add key="SimsConnectorUser" value="demo" /> Encryption key for Client from SIMS Config
<add key="PinLength" value="5" /> Random code length
<add key="Lang" value="" /> Optionally if you want to set the application language permanently
```

SIMS Config V6.1.5	
le	
General Options Alarming INF	X VCR Systems Addons
[
-System settings	
System settings	
System settings	ΝΟΧ
System settings	NOX
System settings Installation name: Server IP Port:	NOX 2010
System settings Installation name: Server IP Port:	NOX 2010
System settings Installation name: Server IP Port: Comm. Module IP Port:	NOX 2010 3000
System settings Installation name: Server IP Port: Comm. Module IP Port:	NOX 2010 3000