



# IFS TOUCH APPS SERVER INSTALLATION GUIDE

## ABSTRACT

IFS Touch Apps Server is an On Premise version of the IFS Touch Apps Cloud. The On Premise version doesn't need a separate installation of the IFS Cloud Uplink, that part is integrated.

The IFS Touch Apps Server is a Web Application that runs in IIS and uses a small administration database that runs in SQL Server Express.

This document describes how to install IFS Touch Apps Server. Since the product and the installation itself is using a number of Microsoft Technologies a brief instruction on how to install these are included, for details we refer to current documentation from Microsoft.

## VERSION HISTORY

- 1.0.0 IFS Touch Apps Server Release 1.0.0.
- 1.0.1 IFS Touch Apps Server Release 1.0.1. Backward compatible with version 1.0.0.
- 1.1.0 IFS Touch Apps Server Release 1.1.0. Backward compatible with version 1.0.0.
- 1.1.1 IFS Touch Apps Server Release 1.1.1. Backward compatible with version 1.0.0.
- 1.2.0 IFS Touch Apps Server Release 1.2.0. Backward compatible with version 1.0.0.
- 1.3.0 IFS Touch Apps Server Release 1.3.0. Backward compatible with version 1.0.0.
- 1.4.0 IFS Touch Apps Server Release 1.4.0. Backward compatible with version 1.0.0.
- 1.5.0 IFS Touch Apps Server Release 1.5.0. Backward compatible with version 1.0.0.



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## PREREQUISITES

The IFS Touch Apps Server can be installed on Windows Server 2008 R2 or Windows Server 2012 R2. The server should have IIS with a Default Web site and .NET 4.0 installed.

### QUICK GUIDE TO SET UP IIS ON WINDOWS SERVER 2008 R2.

The base for this guide is a new VM in Windows Azure, other VM: s or servers might have a different configuration.

1. Start Server Manager
2. Select Roles
3. Add Roles \ Web Server (IIS)

Enable following items (and added required features):

- Web server \Application Development \ ASP.NET
- Web Server \ Performance \ Dynamic Content Compression

Run the following command:

```
%windir%\Microsoft.NET\Framework\v4.0.30319\aspnet_regiis.exe -iru
```

### QUICK GUIDE TO SET UP IIS ON WINDOWS SERVER 2012 R2.

The base for this guide is a new VM in Windows Azure, other VM: s or servers might have a different configuration.

1. Start Server Manager
2. Select Local Server
3. ROLES AND FEATURES
4. Add Roles and Features \ Web Server (IIS)

Enable following items (and added required features):

- .NET Framework 4.5 Features \ WCF Services \ HTTP Activation
- Web Server \ Performance \ Dynamic Content Compression

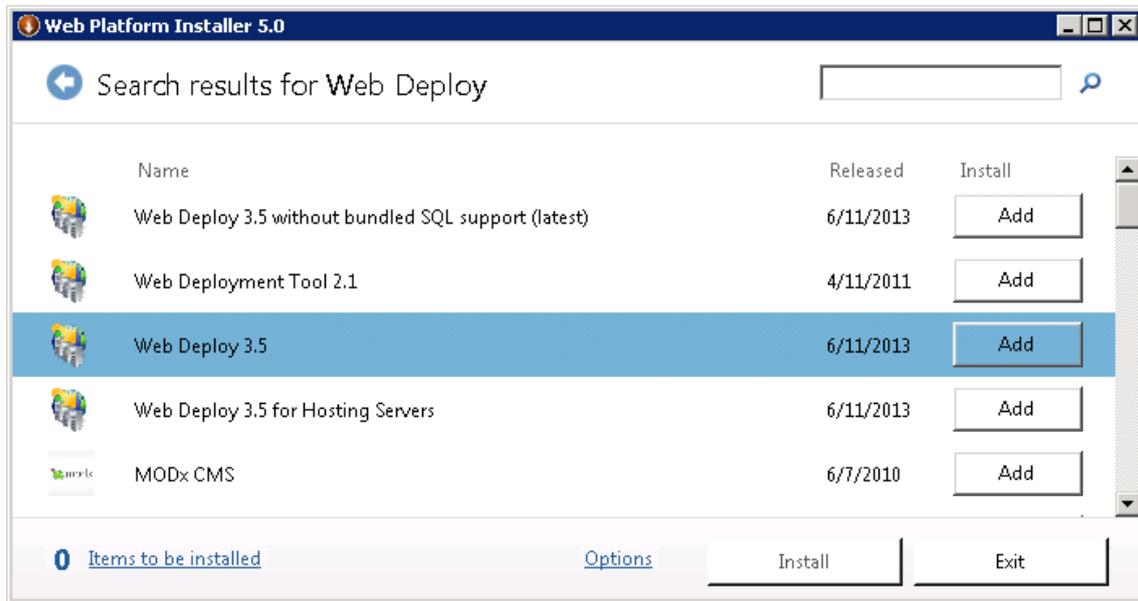
### CONFIGURING AN EXISTING IIS INSTALLATION

The Touch Apps Server requires HTTP Activation and Dynamic Content Compression to run. See the above quick guides for information on how to do this on different Windows versions.

### INSTALL WEB DEPLOY

The installation makes use of Microsoft Web Deploy. To be able to run the installer, the server must have the Web Deploy Tool installed. The easiest way to install the Web Deploy Tool is to install it through Microsoft Web Platform Installer, it can be found [here](#)

When the Web Platform Installer is installed, start it and search for Web Deploy Tool (Current Version is 3.5).



Click Add and Install.

The application uses a small SQL Server database. You can either use an existing SQL Server Installation or install Microsoft SQL Server Express 2012.

### INSTALL SQL SERVER EXPRESS

To be able to run the SQL Server installer, .NET Framework 3.5 must be enabled on the server.

#### WINDOWS SERVER 2008

1. Start Server Manager
2. Select Features
3. Select Add Features
4. Select .NET Framework 3.51 Features \ .NET Framework 3.51

#### WINDOWS SERVER 2012

1. Start Server Manager
2. Local Server
3. ROLES AND FEATURES
4. Add Roles and Features
5. Select .NET Framework 3.5 Features \ .NET Framework 3.5 (includes .NET 2.0 and 3.0)

Microsoft® SQL Server® 2012 Service Pack 2 (SP2) Express can be found [here](#).

Microsoft® SQL Server® 2014 Service Pack 1 (SP1) Express can be found [here](#).

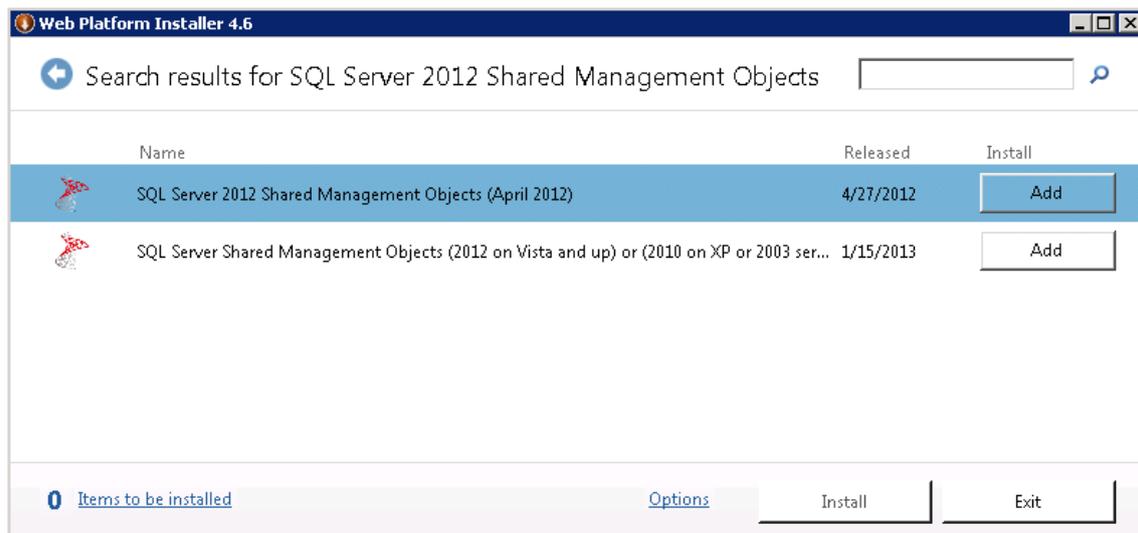
The only mandatory component is the database (SQLEXP\_x64\_ENU.exe option).

- 1 Start the downloaded SQL Server Installation Center.
- 2 Select New SQL Server installation. For the purpose of running IFS Touch Apps Server default values can be used.

### USING AN EXISTING SQL SERVER INSTANCE

If you want to connect to an existing SQL Server Instance on another machine you need to install “SQL Server 2012 Shared Management Objects”.

Start Web Platform Installer and search for “SQL Server 2012 Shared Management Objects”.



Click Add and Install.

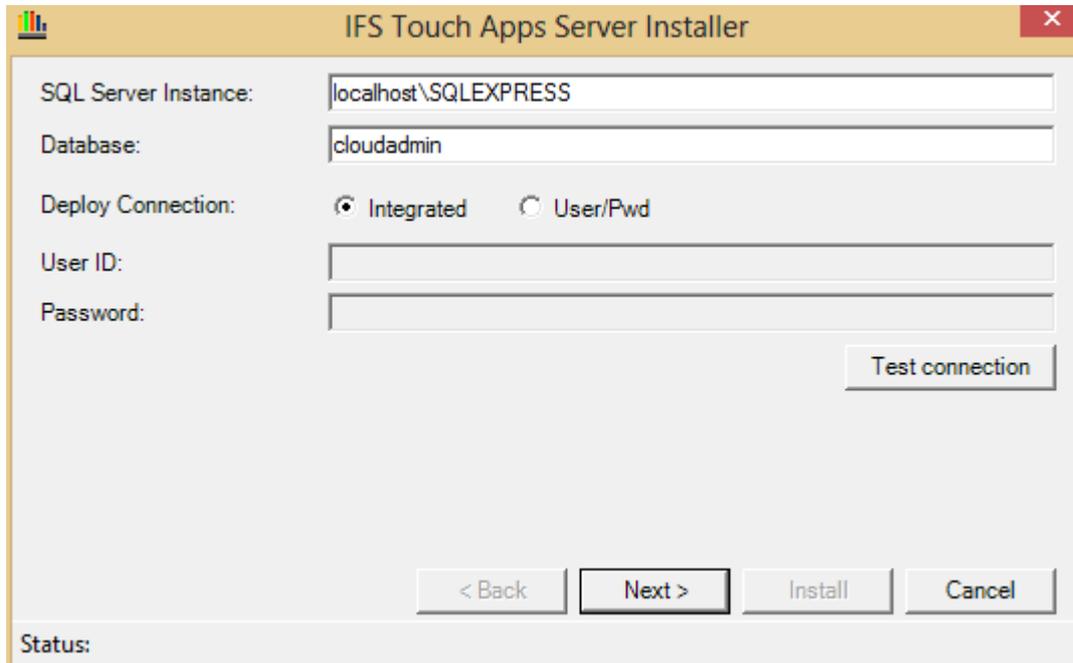
### TOUCH APPS SERVER INSTALLATION

Download the latest version of the IFS Touch Apps Server from the IFS Cloud (<https://cloud.ifsworld.com>).

Unzip and run IFSTouchAppsServerInstaller.exe.

This will launch the installation wizard that will guide you through the installation process.

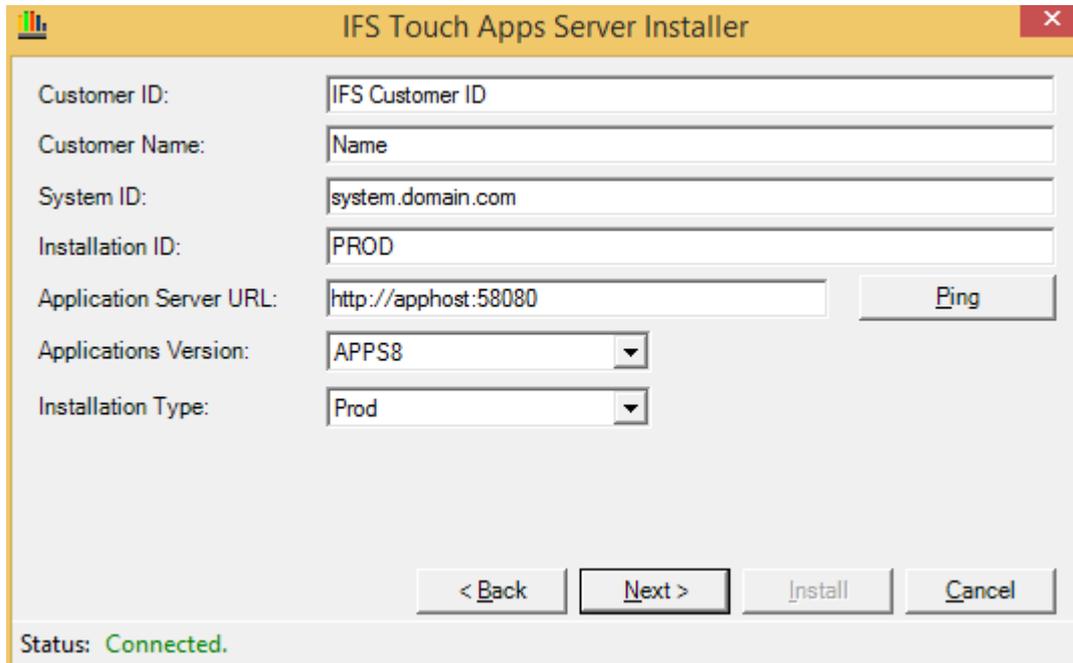
**PAGE ONE - DATABASE**



On the first page provide information about the SQL Server database used by the IFS Touch Apps Server. Specify the SQL Server Instance that you want to connect to and the name of the database that should be used by the IFS Touch Apps Server. The database should be dedicated to IFS Touch Apps Server and not shared with any other application. The database and tables will be created if they don't already exist.

Also specify if you want the installer to connect using integrated authentication (Current Windows User) or if you want to specify the username/password of an existing database user. This user is used by the installer when creating the database and tables and can be different from the runtime user used by the IFS Touch Apps Server. The installation user should have the *sysadmin* role granted.

**PAGE TWO - INSTALLATION INFORMATION**



On page two specify your IFS Customer ID and the name of your corporation.

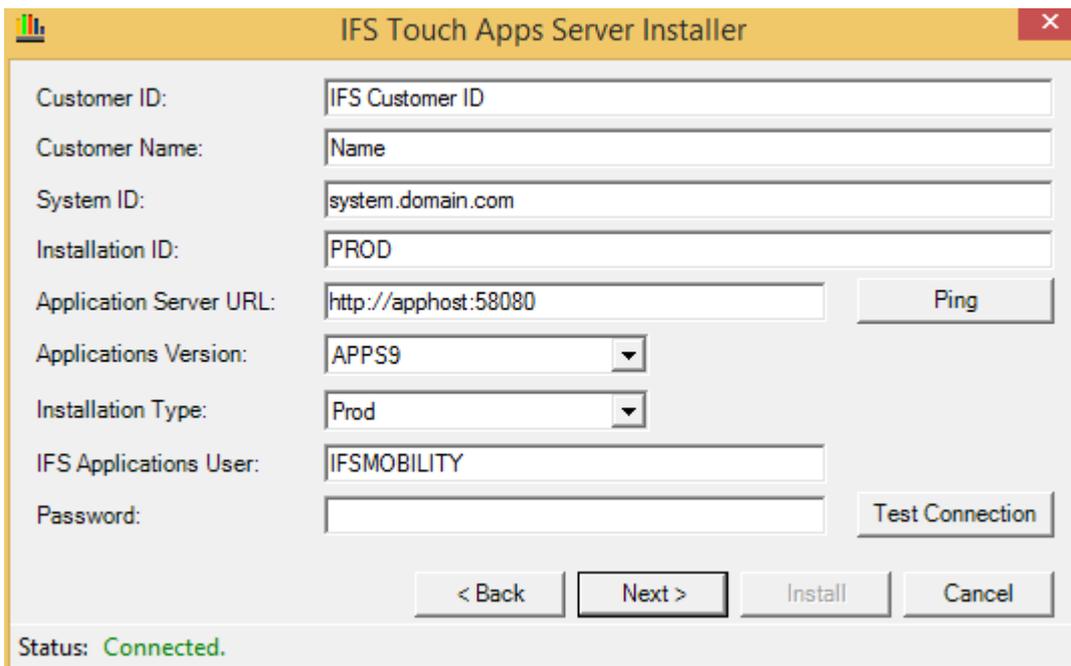
The System ID is the identifier entered in the client when end users connect to the system through IFS Touch Apps.

The Installation ID should be set to the Installation ID registered with IFS.

Also specify the URL to your IFS Applications installation (this is the same URL that is used from IFS Enterprise Explorer), the version of IFS Applications that you are using and if this is a production or a test system.

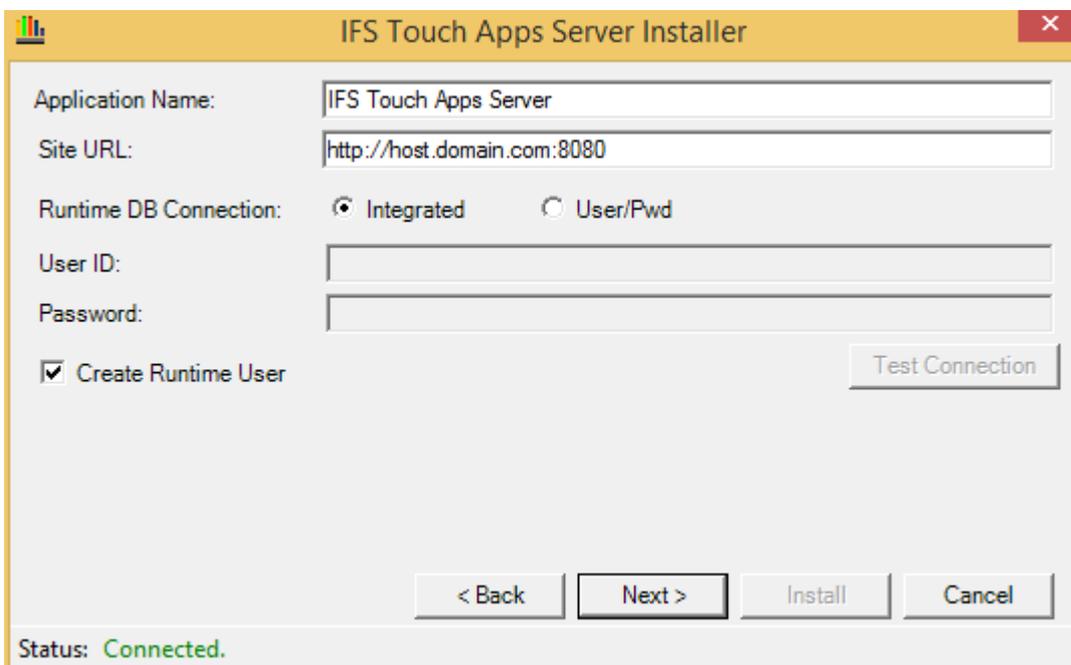
You can use Ping to validate that the Application Server is available.

For an Apps9 system you get two extra fields for an IFS User and Password. These are only used when using apps based on FNDMOB. For more details, please refer to IFS Applications Technical Documentation.



You can use Test Connection to validate the credentials.

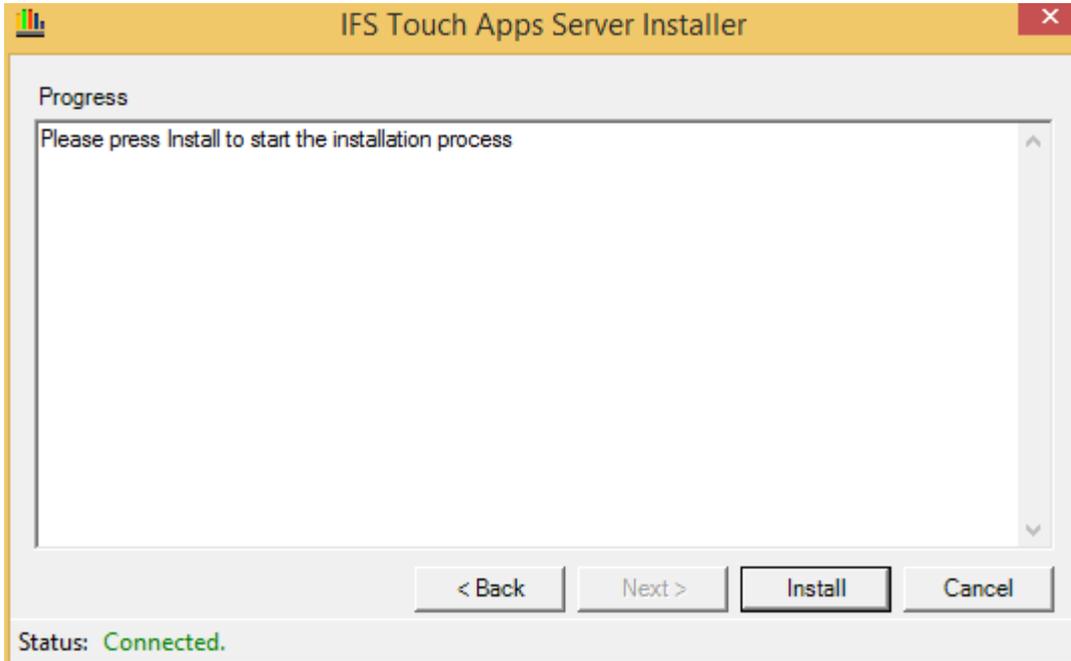
### PAGE THREE - IIS



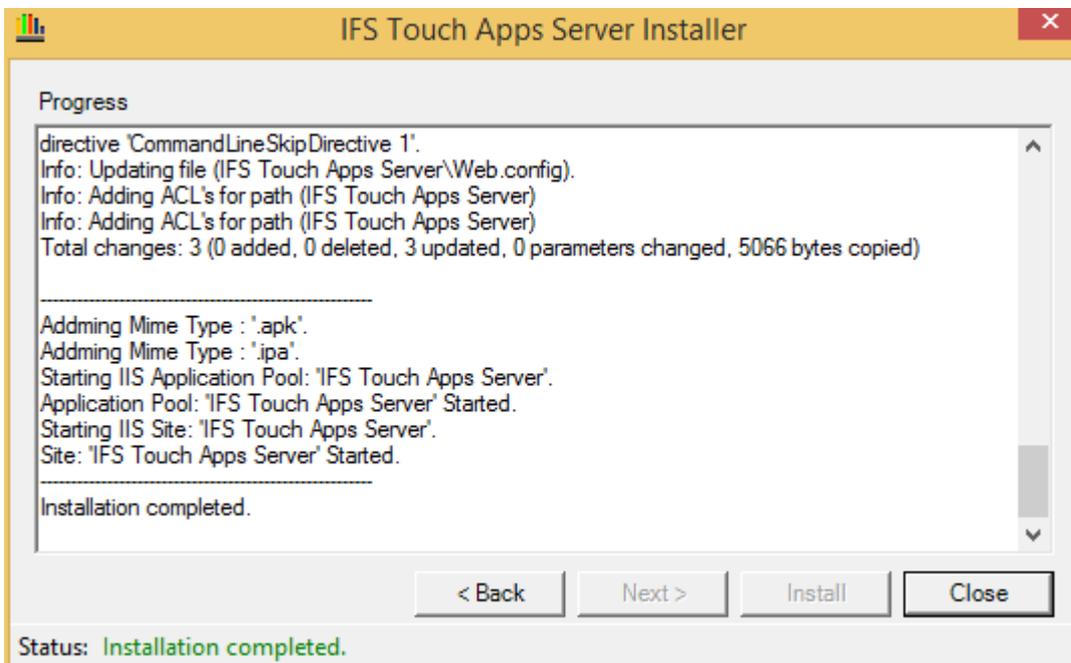
On the third page specify the name of the IIS application and the port on which to expose the IFS Touch Apps Server.

Also specify if the IFS Touch Apps Server should connect using integrated authentication (NT AUTHORITY\NETWORK SERVICE) or if you want to specify the username/password of a sql server user. (If the user doesn't exist it will be created with the specified password). If the Create Runtime User isn't selected the specified Login and User must be created manually.

**PAGE FOUR - INSTALLATION**



On page four you start the installation process by pressing Install. You will see the result of the installation process in the Progress window as shown below.



If everything runs as expected you will see Installation Completed in the status bar as well as in the Progress window. If the installation fails the installation log file (*install.log*) contains details about the installation process progress.

If the Application Pool is too busy to be stopped, you will get the following message.



If you select Retry, the installer will wait 10 seconds and then retry to stop the Application Pool. This is repeated until the Application Pool is stopped or a total of 60 seconds of waiting time has passed.

If you select Cancel or if the Installer can't stop the Application Pool you need to use IIS Manager to stop it manually and then restart the installer.

## IIS CONFIGURATION

### HTTPS

IFS recommends that the Touch Apps Server is only available over HTTPS for connections over the internet. The SSL connection can either be terminated in a proxy server or on the Touch Apps Server machine itself. If you want the Touch Apps Server machine to listen to https you need to add an https binding to the Touch Apps Server IIS application ("Add Bindings" in the IIS Manager). You will also need to modify the web.config file in ... \inetpub\IFS Touch Apps Server\ folder. There are two settings in this file that need to be modified in order to enable https:

In `<system.serviceModel>` change the security mode of the `WebHttpBinding_IDownlinkInterface` binding from "None" to "Transport":

```
<bindings>
  <webHttpBinding>
    <binding name="WebHttpBinding_IDownlinkInterface"
      <readerQuotas maxStringLength="4194304"/>
      <security mode="Transport"/>
    </binding>
  </webHttpBinding>
</bindings>
```

In `<appSettings>` change the `BaseUrl` key value to use https. Always include the port number even if your service listens to the default port (443). Example: <https://tas.mydomain.com:443>

Note that the SSL certificate must have been issued by a trusted certificate authority (CA). Self-signed certificates are not supported.

When adding the https binding to the web site IFS recommends that the existing http binding is removed in order to reduce the risk of users connecting over an insecure connection.

### SSL 3.0 SECURITY VULNERABILITY



We recommend that SSL 3.0 is disabled to protect against the POODLE attack.

Please follow the instructions in the IFS solution:

**220962 - CVE-2014-3566 "POODLE" security vulnerability**

Customers of IFS registered to use the Internet Support Center may access the solution from this link:

[https://support.ifsworld.com/lcs/secured/castrw/Solution.page?SOLUTION\\_ID=220962](https://support.ifsworld.com/lcs/secured/castrw/Solution.page?SOLUTION_ID=220962)

Partner users please use the following link:

[https://support.ifsworld.com/partner/secured/castrw/Solution.page?SOLUTION\\_ID=220962](https://support.ifsworld.com/partner/secured/castrw/Solution.page?SOLUTION_ID=220962)

IFS users please use the following link:

[http://lcs.corpnet.ifsworld.com/login/secured/castrw/Solution.page?SOLUTION\\_ID=220962](http://lcs.corpnet.ifsworld.com/login/secured/castrw/Solution.page?SOLUTION_ID=220962)

## **CONFIGURATION SETTINGS**

### **appSettings**

Each Touch App consists of a server part and one or more clients. The server parts are .NET-assemblies that the ITAS server reads from a directory.

Default the web.config/appSettings/ResourceLocation parameter isn't set. ITAS then looks for resource assemblies in the App subdirectory of the web application. Change this parameter to a valid path if resource assemblies should be loaded from another location.

### **system.diagnostics**

Default a trace listener is set up to write errors to the file *TASTrace.log* in the *Log* directory. The configuration editor can be used to change the file location or logging level. Set *initializeData* to *Verbose* to get all trace messages. A list of logging levels can be found [here](#). In *traceOutputOptions* you can check *Callstack* to get exception callstacks in the log file.

## **FURTHER IFS TOUCH APPS SERVER ADMINISTRATION**

Please refer to IFS Touch Apps Server Administration Guide.

## **UPGRADING AN EXISTING IFS TOUCH APPS SERVER INSTALLATION**

Upgrading an existing IFS Touch Apps Server installation is done by running the IFS Touch Apps Server installer.

When running the installer to upgrade an existing installation you will need to enter connection information for the existing SQL Server database. You also need to re-enter the port number of the Touch Apps Server IIS site if the installation doesn't use the default port (8080).



The installer will overwrite any manual changes done to the *web.config* file. These changes will have to be re-applied after the installation. You can read more about typical changes to *web.config* in the IIS Configuration section.

## TROUBLESHOOTING

### THE INSTALLATION IS COMPLETED BUT THE WEB SITE FOLDER DOESN'T CONTAIN ANY FILES.

- Open the installer configuration file (*IFSTouchAppsServerInstaller.exe.config*).
- Change the app setting *UseShellExecueForWebDeploy* value to **false**.
- Run the installer again.
- You should now get an error message in the installer log.
- When the error is resolved, change the setting back to **true**.

### SERVER ERROR IN APPLICATION "IFS TOUCH APPS SERVER"

When navigating to the application (default <http://localhost:8080/>) you get:

HTTP Error 500.21 - Internal Server Error

Handler "PageHandlerFactory-Integrated-4.0" has a bad module "ManagedPipelineHandler" in its module list

To solve this, register .NET 4.0 ASP.NET.

```
%windir%\Microsoft.NET\Framework\v4.0.30319\aspnet_regiis.exe -iru
```