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# **IIS Installation Guide**

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## Overview

SalesPad Mobile supports installation of the server component of the application into Microsoft Internet Information Services, or IIS. Installing the server into IIS allows the user to have multiple simultaneous installations, each pointing at a separate company database.

### Prerequisites

Please know which ports you want to connect to and verify that the firewall will let connections through those ports. If you haven't already set up IIS ports please read the following Microsoft article on the subject: <a href="http://support.microsoft.com/kb/149605">http://support.microsoft.com/kb/149605</a>. A domain admin with sys admin access to SQL server will be needed for the IIS App Pool.

## Installing the .NET 4.0 Framework

SalesPad Mobile requires the .NET 4.0 framework, which can be downloaded from the following location. <u>https://www.microsoft.com/en-us/download/details.aspx?id=17851</u>

Simply click the **Download** button and follow the instructions which appear on the screen.

**Note**: The .Net 4.5 framework requires Windows Server 2008 SP2 or above, or alternatively Windows Vista SP2 or above

### **Enabling Internet Information Services**

IIS is not turned on by default in windows. In order to enable IIS functionality, first navigate to the Control Panel, and select the Programs heading.



Programs Uninstall a program Get programs

Doing so will bring up the programs menu. Here, click on the Turn Windows features on or off item under the Programs and Features heading.



## 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

The next screen will allow us to actually enable IIS. After the list has loaded, scroll to the Internet Information Services item, and click the + symbol to the left of it to expand it.

💽 Windows Features	x
Turn Windows features on or off	?
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on	
🛛 🕼 Internet Explorer 9	
😑 🔲 🚡 Internet Information Services	
🕀 🔳 📔 Web Management Tools	=
🕀 🔳 📙 World Wide Web Services	
Internet Information Services Hostable Web Core	
🕀 🔽 📔 Media Features	
_ Image: Wicrosoft .NET Framework 3.5.1	
🕀 💷 📙 Microsoft Message Queue (MSMQ) Server	
🕀 🔳 🔒 Print and Document Services	
Remote Differential Compression	
RIP Listener	Ŧ
OK Cancel	

The options we will need to enable are as follows:

- Web Management Tools
  - IIS 6 Management Compatibility
    - IIS Metabase and IIS 6 configuration compatibility
  - IIS Management Console
- World Wide Web Services
  - Application Development Features
    - .NET Extensibility (4.5)
      - ASP.NET 4.5
        - **Note:** The .Net 4.5 framework requires Windows Server 2008 SP2 or above, or alternatively Windows Vista SP2 or above
- Common HTTP Features
  - Default Document
  - $\circ~$  Directory Browsing
  - $\circ \ \ \text{HTTP Errors}$
  - $\circ \ \ Static \ \ Content$
- Health and Diagnostics
  - HTTP Logging
  - Request Monitor
- Performance Features
  - Static Content Compression
- Security
  - $\circ \ \, \text{Basic Authentication}$
  - Request Filtering
  - $\circ \ \ {\rm Windows \ Authentication}$

Additionally, the .NET Framework 4.5 Advanced Services option must be enabled from the root level. The following items must be activated:

- ASP.NET 4.5
- WCF Services
  - HTTP Activation
  - TCP Port Sharing

## **IIS Configuration**

In order for SalesPad Mobile to function correctly in IIS, it is necessary for IIS to allow delegation of the Authentication – Anonymous on a read-write level to its child sites. This can be seen below:



## Installing the Application

The SalesPad Mobile Web Service can be installed by running the provided installer and following the steps shown on the screen. A brief overview follows.

The first two screens welcome the user to the wizard, and explain the licensing agreement for using the SalesPad Mobile Server. Review these screens and proceed onward to continue with the installation.

<b>B</b>	SalesPad Mobile Service Setup 🚽 🗖 💌			
	Welcome to the SalesPad Mobile Service Setup Wizard			
	The Setup Wizard will install SalesPad Mobile Service on your computer. Click Next to continue or Cancel to exit the Setup Wizard.			
	Back Next Cancel			

Software	End User Lie	cense Agre	ement				^
PLEASE RE	AD THIS SO	FTWARE LI	CENSE A	GREEM	ENT CAR	EFULLY	
BEFORE D	OWNLOAD	NG OR USI	NG THE S	OFTW	ARE.		
BY CLICKIN	IG ON THE	"I AGREE" B	UTTON,	OPENI	NG THE P	ACKAGE	,
DOWNLO	ADING THE	PRODUCT,	OR USIN	G THE E	QUIPME	NT THAT	r
CONTAINS	S THIS PROD	DUCT, YOU	ARE CON	SENTIN	NG TO BE	BOUND	BY v
I accept th	a terms in the	Licence Agre	omont				

The next page of the wizard prompts the user to select the location in which they would like to install the mobile service. By default, the wizard would like to create a folder in IIS's default root folder.

退	SalesPad	Mobile Service	Setup	-	• ×
Destination Click Next to	Folder install to the default fold	der or dick Change t	o choose another.		
Install SalesPa	d Mobile Service to:				
D:\inetpub\wi	wwroot\SalesPadMobileS	Service\			
		Back	Next	(	Cancel

The next page of the wizard allows the user to configure the database connection for this install of the Mobile

ervice.		
1 <sup>1</sup>	Web.Config Setup	×
We	eb.Config Setup Setup the connection string and service information in the Web.Config file.	
	Database server name or IP (LOCAL) Database name	
	TWO Service Name	
	SalesPad Mobile Service Service Login	
	SalesPad	
	Back Next	Cancel

The IIS Setup page of the wizard allows the user to specify the name of the website to be installed, along with the port it should run on by default.

Mobile Service uses custom application pool identity by default, although this can be changed manually later on. The credentials should have Windows and SQL Server administrator rights and must have be a part of the DYNGROUP role in both the company database in question and the company's Dynamics database.

- 1. App Pool Username Windows username with administrator privileges
- 2. App Pool Password Windows username password
- 3. App Pool Domain Windows domain to which app pool username belongs to

谩	IIS Setup	×
IIS Se	Setup etup the IIS Website.	
	<u>W</u> ebsite Name SalesPad Mobile Service <u>W</u> ebsite Port	
	5501 App Pool UserName User	
	App Pool Password App Pool Domain	
	Back Next	Cancel

The final page of the wizard prompts the user, confirming their desire to install the mobile server. Proceeding with the install requires Administrator privileges.

## Configuring the Mobile Service to Use an SSL Certificate

Users can secure the mobile service with an SSL Certificate by setting up an "https" type binding for the service in IIS and selecting a certificate. In order for the mobile app to successfully connect to the secured service, users must make a modification to the service's Web.config file. Users can find the Web.config file by right-clicking the mobile service in IIS and choosing **Explore**. Once there, the line "" must be deleted or commented out, and the 3 lines directly below it starting with "" must be uncommented out by deleting the "" at the end.

56	¢	<pre><bindings></bindings></pre>
57	þ	<basichttpbinding></basichttpbinding>
58	þ	<pre><binding maxreceivedmessagesize="2147483647" name="CustomBasicAuth"></binding></pre>
59		<security mode="None" / >
60	¢	<security mode="Transport"></security>
61		<transport clientcredentialtype="None"></transport>
62	-	
63	-	
64	-	
65	-	
66	þ	<behaviors></behaviors>

#### Hosting Additional Instances of the Mobile Service

The SalesPad Mobile IIS installer currently only supports installing a single instance of the mobile service to an IIS server. In order to support true multi-tenancy, it is necessary to duplicate the SalesPad Mobile Website.

The most simple way to accomplish this is to navigate to the install location of the website, copy the directory, and rename it to the desired name. The copied directory can then be added by selecting the Add Website option when right-clicking Sites in the IIS manager.

ø	Add Website
47	Refresh
•	Add FTP Site
0	Add Web Site From Gallery
	Switch to Content View

This opens the Add Website screen. Here, the user must name the website, select the desired App Pool, then choose the directory the website exists in. This screen also allows the user to configure the websites bindings, specifying the address and port it will be hosted on.

	Add Webs	ite	? ×
Site name:	Application poo	ol:	
SalesPad Mobile Service	II SalesPad Mobil	e Service Se	lect
Content Directory Physical path:			
C:\inetpub\wwwroot	SalesPadMobileService		
Pass-through authen	ication		
Connect as	est Settings		
Binding			
Туре:	IP address:	Port:	
http 🗸	All Unassigned	✓ 80	
Host name:			
Example: www.conto	o.com or marketing.contoso.cor	n	
✓ Start Website immed	ately		
		ОК	Cancel

Once the website has been added, it is also necessary to modify the site's Application Settings, in particular, the connectionString property. This should be altered to be correct for the desired database.