SharePoint Foundation 2010 Installation Problems

This short eBook outlines my experiences when getting SharePoint Foundation installed on my Windows 7 PC

Installing SharePoint Foundation on Windows 7 Professional 64 Bit

There are many posts about installing SharePoint Foundation 2010 on a Windows 7 PC but this is my own personal experience and shows how I had to overcome quite a few hurdles before getting SharePoint installed and running on my own copy of Windows 7.

First up, this installation is for testing purposes only. So keep in mind that this is just a standalone environment for developing SharePoint solutions and is not meant to be a full scale production platform.

This installation requires that you use a 64 bit operating system - either Windows 7 or Windows Vista.

I do not want to regurgitate the many blog posts and sites that breeze through the installation of SharePoint Foundation 2010 on Windows 7 or Vista.

In fact I found the Microsoft article on installing SharePoint perfectly suitable as long as you know your DOS commands. Check it out for yourself - http://msdn.microsoft.com/en-us/library/ee554869%28office.14%29.aspx.

The Prerequisites

However, before you can even start to install SharePoint Foundation 2010 you must download and install a number of so called prerequisites. You cannot use the built in prerequisite tool because the default installation works only for Windows Server 2008. This means you have no choice but to install the prerequisites manually.

If you are using Windows Vista Service Pack 1 or Windows Vista Service Pack 2, you must install the following prerequisites:

1. .NET Framework 3.5 SP1
   http://www.microsoft.com/download/en/details.aspx?amp;displaylang=en&id=22
2. Windows PowerShell 2.0
   http://support.microsoft.com/kb/968929
3. Windows Installer 4.5 Redistributable
   http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=8483

If you are using Windows Vista Service Pack 1, Windows Vista Service Pack 2, or Windows 7, install the following additional prerequisites:

1. Microsoft FilterPack 2.0. This can be installed by opening a command prompt and typing the following: **c:\SharePointFiles\PrerequisiteInstallerFiles\FilterPack\FilterPack.msi**.

(To open a C: prompt - Click Start and type command into the search programs and files search box. Right click the Command Prompt at the top of the search result and select Run as administrator.)

2. Microsoft Sync Framework - http://go.microsoft.com/fwlink/?LinkID=141237
3. SQL Server Native Client http://go.microsoft.com/fwlink/?LinkId=123718
4. Windows Identity Foundation (KB974405) http://support.microsoft.com/kb/974405

5. WCF hotfix (KB971831) for Windows 7 http://go.microsoft.com/fwlink/?LinkID=166231
6. ADO.NET Data Service Update for .NET Framework 3.5 SP1
    http://www.microsoft.com/downloads/details.aspx?familyid=79d7f6f8-d6e9-4b8c-8640-17f89452148e&displaylang=en

Required Windows Features

Next enable each of the required Windows Features. The quick way to do this is by copying and running the following command in a Command Prompt window.

(To open a C: prompt - Click Start and type command into the search programs and files search box. Right click the Command Prompt at the top of the search result and select Run as administrator.)

```
start /w pkgmgr /iu:IIS-WebServerRole;IIS-WebServer;IIS-
CommonHttpFeatures;^
IIS-StaticContent;IIS-DefaultDocument;IIS-DirectoryBrowsing;IIS-
HttpErrors;^
IIS-ApplicationDevelopment;IIS-ASPNET;IIS-NetFxExtensibility;^
IIS-ISAPIExtensions;IIS-ISAPIFilter;IIS-HealthAndDiagnostics;^
IIS-HttpLogging;IIS-LoggingLibraries;IIS-RequestMonitor;IIS-
HttpTracing;IIS-CustomLogging;IIS-ManagementScriptingTools;^
IIS-Security;IIS-BasicAuthentication;IIS-WindowsAuthentication;IIS-
DigestAuthentication;^
IIS-RequestFiltering;IIS-Performance;IIS-HttpCompressionStatic;IIS-
HttpCompressionDynamic;^
IIS-WebServerManagementTools;IIS-ManagementConsole;IIS-
IIS6ManagementCompatibility;^
IIS-Metabase;IIS-WMICompatibility;WAS-WindowsActivationService;WAS-
ProcessModel;^
WAS-NetFxEnvironment;WAS-ConfigurationAPI;WCF-HTTP-Activation;^
WCF-NonHTTP-Activation
```
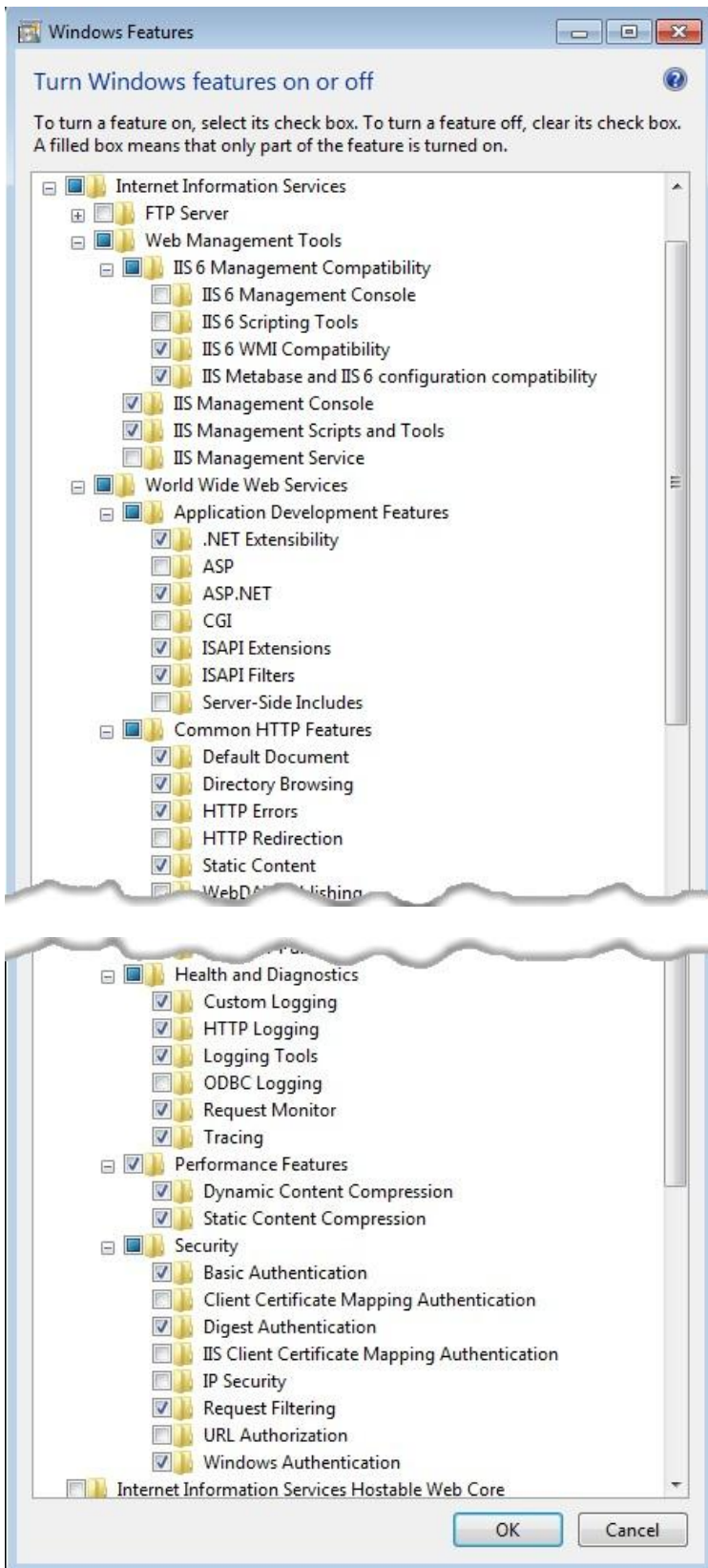
After Running the Code

Once you've copied and pasted the above code make sure all prerequisites are met and no critical error is present in your computers event logs.

If you have any problems installing SharePoint Foundation from here on check that all the required Windows Features are enabled.

The command in the previous step enables all of the required features in the Internet Information Services section of the Windows Features dialog box (which you can access through the Programs section in Control Panel).

Use the snapshots below to check that you have enabled all of the required Windows Features.

The Installation

When all the above downloads are installed download SharePoint Foundation 2010. From the Microsoft website -
http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=49c79a8a-4612-4e7d-a0b4-3bb429b46595

Place the SharePointFoundation.exe file into a folder on your C drive named **SharePointFiles** i.e. C:\SharePointFiles

Now you have to extract the SharePointFoundation.exe program files so you can access and amend a single configuration file.

To do this open a C: prompt - Click Start and type command into the search programs and files search box. Right click the Command Prompt at the top of the search result and select Run as administrator.

Here's where some people have a problem as you are usually dumped at C:\Users\Name and you need to be at C:\.

Just type CHDIR.. to move up a rung and CHDIR.. to end up at the C:\ prompt.

Now copy the entry below and paste it immediately after the C:\ prompt.

SharePointFiles\SharePointFoundation /extract:c:\SharePointFiles

This assumes SharePoint Foundation is installed and placed on your C: drive in a folder called SharePointFiles and is named SharePointFoundation.exe, otherwise you need to change paths accordingly.

The syntax for this command is (folder path to .exe file)\(the installation file to be extracted from that folder)/extract:c:\(folder where extracted files are to be stored).

Name	Date modified	Type	Size
Catalog	21/12/2011 11:35	File folder	
Files	21/12/2011 11:35	File folder	
Global	21/12/2011 11:35	File folder	
PrerequisiteInstallerFiles	21/12/2011 11:35	File folder	
Setup	21/12/2011 11:35	File folder	
Updates	21/12/2011 11:35	File folder	
wss.en-us	21/12/2011 11:35	File folder	
autorun.ico	17/03/2010 04:27	Icon	2 KB
autorun.inf	17/03/2010 04:27	Setup Information	1 KB
default.hta	30/03/2010 19:11	HTML Application	14 KB
Microsoft.VC90.CRT.manifest	16/03/2010 23:37	MANIFEST File	2 KB
msvcr90.dll	16/03/2010 23:36	Application extens...	612 KB
PrerequisiteInstaller.exe	30/03/2010 19:11	Application	4,196 KB
ReadMe.Htm	27/03/2010 20:45	Firefox Document	2 KB
setup.cmd	17/03/2010 04:27	Windows Comma...	1 KB
setup.exe	11/03/2010 21:03	Application	1,346 KB
SharePointFoundation.exe	14/12/2011 16:30	Application	173,633 KB
splash.hta	17/03/2010 04:27	HTML Application	3 KB
wsssetup.dll	12/03/2010 01:24	Application extens...	7,410 KB

Once the files are extracted go to the c:\SharePointFiles folder and you will see a list of files.

Open the **Files folder** and then the first **Setup folder** and right click on the config.xml file and select Edit. This will open the configuration file in Notepad.

*Now add the following setting **Id** as the last entry before:*

 </Configuration>

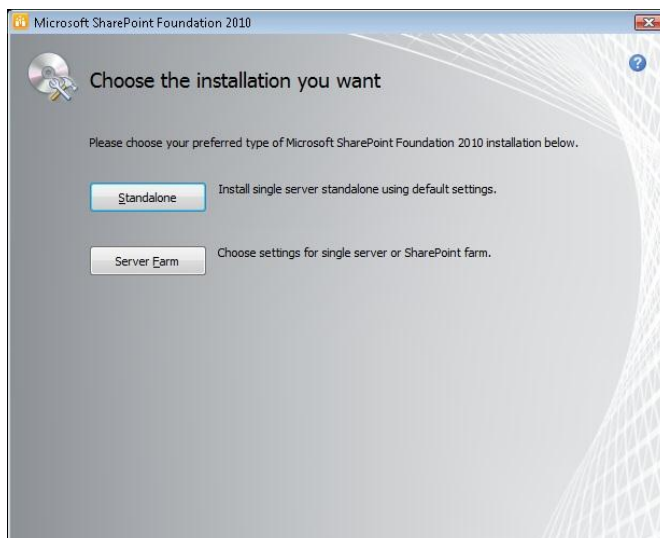**<Setting Id="AllowWindowsClientInstall" Value="True"/>**

This line of code above gets SharePoint Foundation 2010 to install on a 64 bit edition of Windows.

The entire config.xml file should look something like this:

```
<Configuration>

<Package Id="sts">

<Setting Id="SETUPTYPE" Value="CLEAN_INSTALL"/>

</Package>

<DATADIR Value="%CommonProgramFiles%\Microsoft Shared\Web Server
Extensions\14\Data"/>

<Logging Type="verbose" Path="%temp%" Template="Microsoft SharePoint Foundation
2010 Setup *.log"/>

<Setting Id="UsingUIInstallMode" Value="1"/>

<Setting Id="SETUP_REBOOT" Value="Never" />

<Setting Id="AllowWindowsClientInstall" Value="True"/>

</Configuration>
```

Now save and close the Notepad file.

Once you've completed all the above steps go back to the SharePointFiles folder and run the
setup.exe program to install SharePoint Foundation 2010.

On the Choose the installation you want
page, click **Standalone** to install everything
on one developer workstation.

After the installation is complete, you are
prompted to start the SharePoint Products
and Technologies Configuration Wizard.

Once the installation is complete you
should see the Central Administration
page.

Blank Pages and the Solution

This is the next potential problem, as I got a blank page at this point. Even after a reboot and going to Start/All Programs/Microsoft 2010 SharePoint Products and clicking on SharePoint 2010 Central Administration I still got a blank page.

After some online research I found that this problem is to do with the setup of host names and/or problems with the loopback check.

According to Microsoft there are two methods to work around this blank page issue and you should use one of the following methods - the one that's most appropriate for your particular set up.

Method 1: Specify host names (The preferred method if NTLM authentication is desired)

To specify the host names that are mapped to the loopback address and can connect to Web sites on your computer, follow these specific steps:

Click Start, click Run, type regedit, and then click OK.

In Registry Editor, locate and then click the following registry key:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa\MSV1_0

Right-click MSV1_0, point to New, and then click Multi-String Value.

Type BackConnectionHostNames, and then press ENTER.

Right-click BackConnectionHostNames, and then click Modify. In the Value data box, type the host name or the host names for the sites that are on the local computer, and then click OK.

Quit Registry Editor and then restart your PC.

Method 2: Disable the loopback check (less-recommended method)

The second method is to disable the loopback check by setting the DisableLoopbackCheck registry key.

To set the DisableLoopbackCheck registry key, follow these steps:

Click Start, click Run, type regedit, and then click OK.

In Registry Editor, locate and then click the following registry key:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa

Right-click Lsa, point to New, and then click DWORD Value.

Type DisableLoopbackCheck, and then press ENTER.

Right-click DisableLoopbackCheck, and then click Modify.

In the Value data box, type 1, and then click OK.

Quit Registry Editor, and then restart your computer.

Password not Accepted

If you now get a log in page that will not accept your windows password this last step should help.

First go to User accounts and make sure you have a password set for your Administrators account. If not create one and then restart your PC.
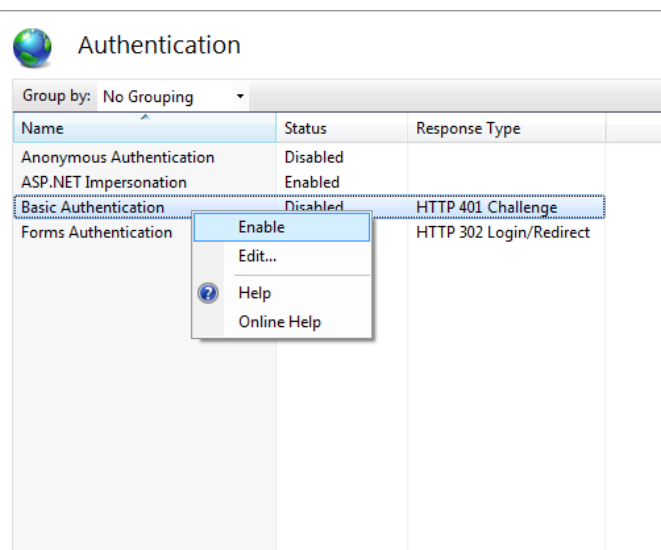
Now run the SharePoint 2010 Product Configuration Wizard again and try to open SharePoint 2010 Central Administration.

If your password is still not accepted you will need to enable **Basic Authentication** under the sites section of Internet Information Services (IIS).

To do this open Internet Information Services (IIS) and expand the Sites section. If you do not know where to find IIS just copy **Internet Information Services** and paste it into the Windows Search programs and files box. Click on the resulting link.

In the left hand column of IIS click the arrow to open up Application Pools and the Sites folder.

Open the Sites folder and select SharePoint Central Administration and click on Authentication under the IIS Group in the right hand panel.

Next on the Authentication screen enable "Basic Authentication" by right clicking and selecting Enabled.

Now restart your PC and see if you can now log in.

If not run the SharePoint 2010 Product Configuration Wizard again. And then try to open SharePoint 2010 Central Administration.

By following all these steps I was finally able to get SharePoint Foundation 2010 set up as a testing server on my 64 bit Windows 7 Professional PC.

The only downside is that I now have to log in every time I start up my computer!

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This eBook is provided by QBS PC Help

4, Waterside House, Strand Road, Coleraine, Co. Londonderry BT51 3AA

Website: http://www.qbs-pchelp.co.uk

Email: mailto:admin@qbs-pchelp.co.uk