Online Bus Ticket Reseveration System Installation Guide

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I-.Net Framework Deployment Guide

Applications and controls written for the Microsoft .NET Framework require the .NET Framework to be installed on the computer where the application or control runs. The .NET Framework version 2.0 provides one redistributable installer, **dotnetfx.exe**, which contains the common language runtime and .NET Framework components necessary to run .NET Framework applications. This article lists the resources available on how to get and install **dotnetfx.exe**, and how use it to deploy .NET Framework applications.

Note : If you choose to use the **dotnetfx.exe** or redistribute it with an application created by you, you must have a valid licensed copy of the Microsoft .NET Framework SDK version 2.0 (or Visual Studio 2005) and any use or distribution of **dotnetfx.exe** is subject to the terms of the end user license agreement you received with the Microsoft .NET Framework SDK version 2.0 (or Visual Studio 2005). If you do not have a valid licensed copy of the Microsoft .NET Framework SDK version 2.0, or Visual Studio, you are not authorized to use or distribute **dotnetfx.exe**.

This documentation and its articles are provided to you as part of Microsoft Visual Studio 2005, Visual Basic, Visual C++, Visual C#, Visual J#, Visual Web Developer, and/or the Microsoft .NET Framework SDK version 2.0 (any one of these, a "Microsoft Developer Tool"), specifically for your use in conjunction with the distribution or internal deployment of the Microsoft .NET Framework redistributable file (**dotnetfx.exe**).

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.NET Framework 2.0 System Requirements

Hardware Requirements

Type	Minimum	Recommended	Comments
Processor	400 MHz	800 MHz or above	
Memory	96 Mb (Client) 128 Mb (Server)	256 megabytes (Mb) or above	
Hard Disk Space	280 megabytes (Mb)	1 gigabyte (Gb)	32-bit version
Hard Disk Space	610 megabytes (Mb)	1 gigabyte (Gb)	64-bit version
Display	800 x 600 256 colors	1024 x 768 High Color (16-bit)	

Note A system should meet these or the minimum requirements for the operating system, whichever is higher.

Supported Operating Systems

To install ***Dotnetfx.exe***, you must have one of the following operating systems:

x86 32-bit based systems

Microsoft Windows 98

Microsoft Windows 98 Second Edition

Microsoft Windows 2000 Professional with SP4

Microsoft Windows 2000 Server with SP4

Microsoft Windows 2000 Advanced Server with SP4

Microsoft Windows 2000 Datacenter Server with SP4

Microsoft Windows XP Professional with SP2

Microsoft Windows XP Home Edition with SP2

Microsoft Windows XP Media Center Edition 2002 with SP2

Microsoft Windows XP Media Center Edition 2004 with SP2

Microsoft Windows XP Media Center Edition 2005

Microsoft Windows XP Tablet PC Edition with SP2

Microsoft Windows XP Starter Edition

Microsoft Windows Millennium Edition

Microsoft Windows Server 2003 Standard Edition

Microsoft Windows Server 2003 Enterprise Edition

Microsoft Windows Server 2003 Datacenter Edition

Microsoft Windows Server 2003 Web Edition

x64-bit based systems

Microsoft Windows XP Professional x64 Edition

Microsoft Windows Server 2003, Standard x64 Edition

Microsoft Windows Server 2003, Enterprise x64 Edition

Microsoft Windows Server 2003, Datacenter x64 Edition

Itanium-based systems

Microsoft Windows Server 2003 with SP1, Enterprise Edition for Itanium-based Systems

Microsoft Windows Server 2003 with SP1, Datacenter Edition for Itanium-based Systems

Software Requirements

The following are the basic requirements for the .NET Framework categorized by server and client machines.

Server Definition : A computer that hosts a distributed application. This could be a Windows Server 2003, Windows XP Professional, or Windows 2000 computer. In many cases, these computers are Web servers running ASP.NET applications.

Client Definition : A computer that runs a locally installed application, such as a Windows application, that might also retrieve or process data from a remote database; or a computer that accesses a distributed, Web-based application. These computers are not required to serve information to other computers. This could be a Windows XP, Windows 2000, Windows ME, or Windows 98 computer.

Software	Minimum Version	Recommended	Blocking
Internet Explorer	5.01	6.0 SP1	Required
Windows Installer	2.0 (Windows 98, Me)	3.1	Required

	3.0	
MDAC *	2.8 SP1	Optional, required for data access
IIS **	5.1 (Windows XP)	Optional, required for ASP.NET
	6.0 (Windows 2003)	
Core WMI		Optional

Note A number of elements of the .NET Framework and underlying Common Language Runtime (CLR) rely on technologies that do not affect basic functionality, and that are delivered in optional software products or products that are not installed as part of the .NET framework or the operating system. If the optional software requirements are not met, Setup will not block installation or warn you of their absence.

*Depending on your data access strategy, you may need to ensure that Microsoft Data Access Components (MDAC) is installed on the client computers, the business servers, the Web servers or the database servers.

If your application uses the System.Data namespace, you must install MDAC on the computer to which you are distributing.

You should ensure that you deploy the same version of MDAC to the production environment that you use in development. Visual Studio 2005 ships with MDAC 2.8 SP1, so it is likely that your developers have developed and tested your solution with that version. If you subsequently deploy the application to computers where for example older version of MDAC is installed, you run the risk of encountering unforeseen problems. The latest version of MDAC is available for download at the Microsoft Universal Data Access Web site.

**Internet Information Services (IIS) on the server for Windows 2000, Windows XP (Professional), and Windows Server 2003. This is required for using ASP.NET applications. If your solution includes a Web tier, you must ensure that IIS and the latest security patches are installed on your target computer(s). IIS can be installed from the operating system installation CD or DVD, and the latest security patches can be downloaded and installed from the Windows Update Web site.

Redistributing the .NET Framework Version 2.0

The version 2.0 release of the Microsoft .NET Framework provides one redistributable installer that contains the common language runtime and .NET Framework components that are necessary to run .NET Framework applications. The .NET Framework redistributable is available as a stand-alone executable file, ***Dotnetfx.exe***. The .NET Framework requires a license agreement that gives you specific rights to redistribute ***Dotnetfx.exe***. If you have previously installed the .NET Framework SDK version 2.0, Microsoft Visual Studio 2005, or downloaded Dotnetfx.exe from the Web, you have accepted the license agreement for Dotnetfx.exe. For the terms of the license agreement, see the .NET Framework Redistributable License Terms (EULA).

You can manually launch and install ***Dotnetfx.exe*** on a computer, or it can be launched and installed as part of the setup program for a .NET Framework application. Note that administrator privileges are

required to install ***Dotnetfx.exe***. If you have previously installed Microsoft Visual Studio 2005, you do not need to install ***Dotnetfx.exe***.

There are minimum configuration requirements that must be met in order to install ***Dotnetfx.exe***. For more information about software and hardware requirements and recommendations, see Minimum Configuration Requirements.

Obtain the .NET Framework Redistributable Package

You can download ***Dotnetfx.exe*** from MSDN Online or from the Microsoft Windows Update Web site.

Alternately, you can get the redistributable package on a Microsoft .NET Framework DVD. The redistributable packages for .NET Framework 2.0 are available on the DVD in the directory

***<LANGUAGE_CODE>*\Runtime\dotnetfx.exe**

where *<LANGUAGE_CODE>* represents locale language, or from Disc 1 of the Microsoft Visual Studio 2005 in the **\wcu\dotNetFramework** directory.

If you need to have users install the .NET Framework from the Internet, do not post the .NET Framework Redistributable Package. Instead, direct users to the Microsoft Windows Update Web site**.**

.NET Framework 2.0 Deployment Scenarios

This section provides .NET Framework SDK users with deployment scenarios for redistributing the .NET Framework using Dotnetfx.exe. Scenarios are provided for deploying Dotnetfx.exe using an electronic software distribution tool, manually installing from a download location on a network share, intranet, or the Microsoft Web site, and using the Setup.exe Bootstrapper sample to create a single setup project to install both Dotnetfx.exe and a .NET Framework application. Because Dotnetfx.exe is a significant runtime component, you must have administrator privileges in order to install it on a computer.

Distributing Dotnetfx.exe Using an Electronic Software Distribution Tool

Corporations that deploy .NET Framework applications will find it easier to deploy the .NET Framework once to all users' computers, rather than including it with each application that requires it. Various electronic distribution tools are available for deploying Dotnetfx.exe and, when necessary, MDAC 2.8 SP1 or later across a secure network. There are two requirements for any tool that you use to distribute Dotnetfx.exe :

1. The tool must be capable of running a remote installation on a remote computer
2. The tool must be able to run with administrator privileges.

The following links describe how to use Microsoft Systems Management Server (SMS) and Microsoft Active Directory to deploy the .NET Framework redistributable package across a network.

- Deploying the .NET Framework using Systems Management Server 2.0
- Deploying the .NET Framework Using Active Directory

Manual and Silent Installation Options of Dotnetfx.exe

You can direct users to a download location for ***Dotnetfx.exe*** on a network share, the Microsoft Download Center or a location on the Microsoft Windows Update Web site. A user can run and install Dotnetfx.exe on the computer on which they want to deploy and run a .NET Framework application. Note that in order to install Dotnetfx.exe, you must have administrator privileges on the computer.

The .NET Framework Redistributable Package version 2.0 uses a Windows Installer package that wraps it into the single, self-extracting executable file Dotnetfx.exe. The Dotnetfx.exe executable file launches Install.exe, which performs platform checks, and then launches the Windows Installer package (.msi file).

Table 1 describes the command line options you can specify when installing Dotnetfx.exe. To specify options when installing Dotnetfx.exe, you must pass the options to the Install.exe wrapper using the **/c:** option.

Syntax:

```
dotnetfx [/q[:a]] [/t:<temp_path> [/c]]
dotnetfx [/q[:a]] [/c:"Install [/l <log_file>] [/q]"]
```

Table 1. Command-line options for Dotnetfx.exe

Option	Description
/t:<temp_path> [/c]	Specifies temporary working folder ***<temp_path>***. If used in conjunction with optional ***/c***, will only extract installation files, no installation will be performed.
/c:<command>	Overrides default command executed after extraction of installation files. Default is ***Install.exe /l %temp%|dd_netfx20MSIxxxx.txt /q*** *(see Table 2 for Install.exe options)*
/q[:a]	Specifies quiet install mode. Suppresses the display of the setup user interface. You may also include optional **:a** to suppress the extraction user interface as well.

Table 2. Command-line options for Install.exe

Option	Description
/l <logfile_name>	Specifies name and path for verbose MSI log. The default is ***%temp%|dd_netfx20MSIxxxx.txt***
/q	Specifies quiet install mode. Suppresses the display of the setup user interface

	and progress bar.
/qu	Specifies quiet uninstall mode. Suppresses the display of the uninstall interface and progress bar.

Whenever you launch an installation of the .NET Framework, J# redistributable package, or language pack, you should pass the **/l** switch to enable verbose logging. By doing this, the setup package will create a verbose log file in the %temp% directory by default. Dotnetfx.exe as well as langpack.exe redistributables will create an additional log file, *dd_netfx20UIxxxx.txt* and *dd_netfxLP20UIxxxx.txt* respectively to log wrapper execution. This will allow for more detailed debugging of any failures without requiring the user to set a registry key to enable logging, re-run the setup, and reproduce the failure in order to produce verbose log files.

Examples:

Simply executing dotnetfx.exe will launch standard installation wizard, providing user with license agreement screen, and allowing finishing install on acceptance.

The following command launches a silent installation of Dotnetfx.exe.

```
dotnetfx.exe /q:a /c:"install /q"
```

The following command launches a silent installation of langpack.exe (any language pack).

```
LangPack.exe /q:a /c:"install /q"
```

A silent install suppresses the display of all user interface and error messages returned by ***Dotnetfx.exe*** and Install.exe, which is contained within ***Dotnetfx.exe***. Specifying the **/q:a** and **/q** options for a silent install allows for a standardized user installation experience. Specifying the **/l** option creates a setup log files, *dd_netfx20*.txt* and *dd_netfxLP20*.txt* for the Framework and Language Pack respectively, in the *%temp%* directory where all errors are logged.

.NET Framework 2.0 Deployment Using Visual Studio 2005

This article describes how to use Microsoft Visual Studio 2005 to create or modify a deployment project to use the Setup.exe Bootstrapper that will allow to preinstall prerequisites for your .NET application, such as .NET Framework 2.0 and other common packages.

.NET Framework 2.0 Redistributable Package Reference

The version 2.0 release of the Microsoft .NET Framework provides one redistributable installer that contains the common language runtime and Microsoft .NET Framework components that are necessary to run .NET Framework applications. The .NET Framework redistributable is available as a stand-alone executable file, Dotnetfx.exe. The .NET Framework requires a license agreement that gives you specific rights to redistribute Dotnetfx.exe. If you have previously installed Microsoft Visual Studio 2005, the .NET Framework SDK version 2.0 or downloaded Dotnetfx.exe from the Web, you have accepted the license agreement for Dotnetfx.exe. For the terms of the license agreement, see the Microsoft .NET Framework 2.0 Redistributable EULA.

You can manually launch and install Dotnetfx.exe on a computer, or it can be launched and installed as part of the setup program for a .NET Framework application. Note that administrator privileges are required to install Dotnetfx.exe. If you have previously installed the .NET Framework SDK version 2.0 or Microsoft Visual Studio 2005, you do not need to install Dotnetfx.exe.

There are minimum configuration requirements that must be met in order to install Dotnetfx.exe. For more information about software and hardware requirements and recommendations, see the Minimum Configuration Requirements.

Obtain the .NET Framework Redistributable Version 2.0 Package

You can download **Dotnetfx.exe** from MSDN Online or from the Microsoft Windows Update Web site.

Alternately, you can get the redistributable package on a Microsoft .NET Framework DVD. The redistributable packages for .NET Framework 2.0 are available on the DVD in the directory

***<LANGUAGE_CODE>*\Runtime\dotnetfx.exe**

where <*LANGUAGE_CODE*> represents locale language, or from Disc 1 of the Microsoft Visual Studio 2005 in the **\wcu\dotNetFramework** directory.

If you need to have users install the .NET Framework from the Internet, do not post the .NET Framework Redistributable Package. Instead, direct users to the Microsoft Windows Update Web site.

Detecting Installed .NET Framework 2.0

The Setup.exe bootstrapper should use the following registry key to detect the .NET Framework version 2.0.

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727
```

It then verifies the existence of the entry value:

```
Install (DWORD value = 1)
```

Note The same registry key will be checked for all versions of ***Dotnetfx.exe*** regardless of language. Therefore, if you want to display dialogs in a specific language you should use the corresponding version of Dotnetfx.exe. You do not need to make any changes to the *settings.ini* file when deciding which version of Dotnetfx.exe to use.

Detecting Installed .NET Framework 2.0 Language Packs

With the .NET Framework 2.0 and the J# redistributable package 2.0, a centralized registry hive is created during setup to indicate information about the versions of the .NET Framework and J# redistributable package installed on a machine.

Table 1 lists each of the products along with the registry values that can be checked to determine whether or not the product is installed on a given machine:

Table 1. .NET Framework Registry Locations

Product	Registry Value
.NET Framework Version 2.0 Redistributable	HKEY_LOCAL_MACHINE\Software\Microsoft\NET Framework Setup\NDP\v2.0.50727

	Install (DWORD value = 1)
Chinese (Simplified) Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\2052
	Install (DWORD value = 1)
Chinese (Traditional) Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1028
	Install (DWORD value = 1)
Czech Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1029
	Install (DWORD value = 1)
Danish Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1030
	Install (DWORD value = 1)
Dutch Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1043
	Install (DWORD value = 1)
Finnish Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1035
	Install (DWORD value = 1)
French Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1036
	Install (DWORD value = 1)
German Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1031
	Install (DWORD value = 1)
Greek Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1032
	Install (DWORD value = 1)

Italian Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1040 Install (DWORD value = 1)
Japanese Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1041 Install (DWORD value = 1)
Korean Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1042 Install (DWORD value = 1)
Norwegian Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1044 Install (DWORD value = 1)
Polish Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1045 Install (DWORD value = 1)
Portuguese (Brazilian) Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1046 Install (DWORD value = 1)
Portuguese (Portugal) Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\2070 Install (DWORD value = 1)
Russian Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1049 Install (DWORD value = 1)
Spanish Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\3082 Install (DWORD value = 1)
Swedish Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1053

	Install (DWORD value = 1)
Turkish Language Pack	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v2.0.50727\1055
	Install (DWORD value = 1)

Table 2. Visual J# Registry Locations

Product	Registry Value
Visual J# Version 2.0 Redistributable	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727
Visual J# Chinese (Simplified) Language Pack	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727\2052
	Install (DWORD value = 1)
Visual J# Chinese (Traditional) Language Pack	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727\1028
	Install (DWORD value = 1)
Visual J# French Language Pack	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727\1036
	Install (DWORD value = 1)
Visual J# German Language Pack	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727\1031
	Install (DWORD value = 1)
Visual J# Italian Language Pack	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727\1040
	Install (DWORD value = 1)
Visual J# Japanese Language Pack	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727\1041
	Install (DWORD value = 1)
Visual J# Korean Language Pack	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727\1042

	Install (DWORD value = 1)
Visual J# Spanish Language Pack	HKEY_LOCAL_MACHINE\Software\Microsoft\Visual JSharp Setup\Redist\v2.0.50727\3082
	Install (DWORD value = 1)

Note In Table 2, the [LCID] portion of the key names represents a 4-digit number that is the language code for the language pack in question. For example, the language code for English is 1033 and the language code for Japanese is 1041.

Installation Command Syntax and Corresponding Log Files

Table 3. Command syntax and log files

Product	Command line syntax	Log file location
.NET Framework	dotnetfx.exe /c:"install "	%temp%\dd_netfx20*.txt
.NET Framework Language Pack	langpack.exe /c:"install /l"	%temp%\dd_netfxLP20*.txt
J# Redistributable Package	vjredist.exe /c:"install /l"	%temp%\dd_vjredist20*.txt
J# Redistributable Package Language Pack	Vjredist-LP.exe /c:"install /l"	%temp%\dd_vjredistLP20*.txt

The following is an example entry in *dd_netfx20MSIxxxx.txt* that indicates the return code from Windows Installer:

```
MSI (c) (90:9C): MainEngineThread is returning 0
```

Dotnetfx.exe Error Codes

Table 4 describes the errors returned by Dotnetfx.exe.

Table 4. Dotnetfx.exe errors

Error	Description
3010	**Reboot is required.** A computer reboot is required following the installation of the .NET Framework
4096	**Improper usage/invalid parameters.** Either the syntax used to specify parameters to Dotnetfx.exe is incorrect, or

	the parameters are invalid.
4097	**On Windows 2000, Windows XP or Windows Server 2003, need Administrator rights to (un)install.** You do not have the permissions required to install or uninstall this application. Please contact your administrator.
4098	**Installation of Windows Installer components failed.** The Windows Installer installation failed. As a result, the installation of Dotnetfx.exe cannot proceed.
4099	**Windows Installer is not installed properly on computer.** Due to the improper installation of Windows Installer, the installation of Dotnetfx.exe cannot proceed.
4100	**CreateMutex failed.** A fatal error occurred and the installation of Dotnetfx.exe cannot proceed.
4101	**Another instance of setup is already running.** If another instance of setup is running, it will be allowed to continue and the current installation cannot proceed.
4102	**Cannot open MSI Database**
4103	**Cannot read from MSI Database**
4111	**Cannot get Temporary directory.**
4113	**Beta NDP components detected.** A beta version of the .NET Framework was detected on the computer. You must uninstall any beta versions before attempting to install Dotnetfx.exe.
4115	**The length of the %temp% path is too long**
4116	**The length of the source path is too long**
4118	**Failed to create or write to the log file**
4119	**The Darwin service is hung and requires a reboot in order to continue**
4120	**An internal error occurred while trying to initialize the Darwin**

	Service
4121	**One or more prerequisites for this product is missing**
4122	**The product does not support installing on the detected operating system type**
8191	**Setup Failure—unknown reason.** A fatal error occurred. The installation of Dotnetfx.exe cannot proceed.
8192	**Reboot is required**

Table 5. Langpack.exe errors

Error	Description
4096	Improper usage/invalid parameters
4097	Windows Installer is not installed properly on machine
4098	Cannot open MSI Database
4099	Cannot read from MSI Database
4100	Source directory too long
4352	Initialization error—cannot be logged
4355	Temporary directory too long
4356	Cannot get temporary directory
4357	Cannot write to log
8191	Setup Failure—unknown reason

During the installation of Dotnetfx.exe, Microsoft Windows Installer and the Windows operating system can also return errors. Table 6 describes the most common Windows Installer errors. For a complete list of Windows Installer errors, see the Windows Installer documentation.

Table 4. Windows Installer errors

Error	Description

1601	**The Windows Installer service could not be accessed. Contact your support personnel to verify that the Windows Installer service is properly registered.**
1602	**User cancelled installation.** The user clicked the **Cancel** button in the user interface. Installation cannot proceed.
1603	**Fatal error during installation.** A fatal error occurred during the installation of Windows Installer. The installation of Dotnetfx.exe cannot proceed.
1604	**Installation suspended, incomplete.**
1613	**This installation package cannot be installed by the Windows Installer service. You must install a Windows service pack that contains a newer version of the Windows Installer service.**
1618	**Another installation is already in progress. Complete that installation before proceeding with this install.**
1621	**There was an error starting the Windows Installer service user interface. Contact your support personnel.**
1622	**Error opening installation log file. Verify that the specified log file location exists and is writable.** This error is more likely to occur during uninstallation when either there is no disk space or the Windows Installer log is enabled. This error can occur during installation if sufficient space does not exist to write to the Windows Installer log, or if the log is read-only.
1623	**This language of this installation package is not supported by your system.**
1625	**This installation is forbidden by system policy. Contact your system administrator.**
1631	**The Windows Installer service failed to start. Contact your support personnel.**
1632	**The temp folder is either full or inaccessible. Verify that the temp folder exists and that you can write to it.**

1633	**This installation package is not supported on this platform. Contact your application vendor.**
1638	**Another version of this product is already installed. Installation of this version cannot continue. To configure or remove the existing version of this product, use Add/Remove Programs on the Control Panel.**
1640	**Installation from a Terminal Server client session not permitted for current user.**

Installing Localized Versions of Dotnetfx.exe

Microsoft .NET Framework 2.0 has been localized into many languages. For additional information, see Installing Localized Versions of the .NET Framework 2.0.

Minimum Configuration Requirements

For information on minimum and recommended platform requirements see the .NET Framework 2.0 Redistributable Prerequisites in the .NET Framework Deployment Guide.

Installing Localized Versions of the .NET Framework 2.0

The .NET Framework 2.0 redistributable (Dotnetfx.exe) supports 25 different languages. Although there is only one version of Dotnetfx.exe, the user interface displayed during installation will be picked up according to a system's regional settings. For example, when installing dotnefx.exe on a Japanese language machine all the installation dialogs and the licensing terms (EULA) will be in Japanese, but the code itself isn't localized and all dialogs displayed by the .NET Framework will be in English.

In order to have Japanese dialogs displayed by the .NET Framework version 2.0 you will also have to install a corresponding language pack. A .NET Framework version 2.0 language pack contains only localized resources (such as error messages) but changes nothing programmatically in the .NET Framework version 2.0.

There are 23 language packs available for the .NET Framework version 2.0 and all 23 can be installed on the same machine. However, there isn't an English Language pack due to the fact that Dotnetfx.exe already has all error codes and messages in English by default. The Chinese Hong Kong (CHH) Language pack version has been substituted by Chinese Traditional (CHT) version of Language Pack.

In every case possible the localized version the matching language pack should be installed on localized machines. This means that in addition to universal installation of the dotnetfx.exe, the Japanese language pack should also be installed when installing on a Japanese machine.

Note When installing a .NET Framework language pack on a computer running the Windows 98 or Windows Me operating system, the system code page and font must support the language pack being installed. There are several options :

- Install the same language pack as the language of Windows. For example, install the Japanese Language Pack on the Japanese version of Windows 98.

- Install a localized version of the language pack on a localized version of Windows, in which the system code page is the same for both languages. For example, install the French Language Pack on the German version of Windows 98.
- Install the .NET Framework version 2.0 on any localized version of Windows. If the system code page and font do not support the language of the .NET Framework language pack being installed, dialogs will not display correctly. For example, when installing the Japanese Language Pack on the English version of Windows 98, setup dialogs will not display text correctly.
- This limitation applies only to Windows 98 and Windows Me systems. You can install any .NET Framework language pack on any language version of Windows 2000, Windows XP, or the Windows Server 2003 family.

To get the .NET Framework 2.0 Language Packs, click here.

Table 1. .NET Framework 2.0 language packs

Language	LCID
Arabic	1025
Chinese (Simplified)	2052
Chinese (Traditional)	1028
Chinese (Hong Kong)	3076
Czech	1029
Danish	1030
Dutch	1043
Finnish	1035
French	1036
German	1031
Greek	1032
Hebrew	1037
Hungarian	1038
Italian	1040

Japanese	1041
Korean	1042
Norwegian	1044
Polish	1045
Portuguese (Brazil)	1046
Portuguese (Portugal)	2070
Russian	1049
Spanish	3082
Swedish	1053
Turkish	1055

Microsoft .NET Framework 2.0 Redistributable Licensing Terms

Section below outlines Licensing Terms (EULA) for the .NET Framework 2.0 redistributable package.

End-User License Agreement

MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS

MICROSOFT .NET FRAMEWORK 2.0

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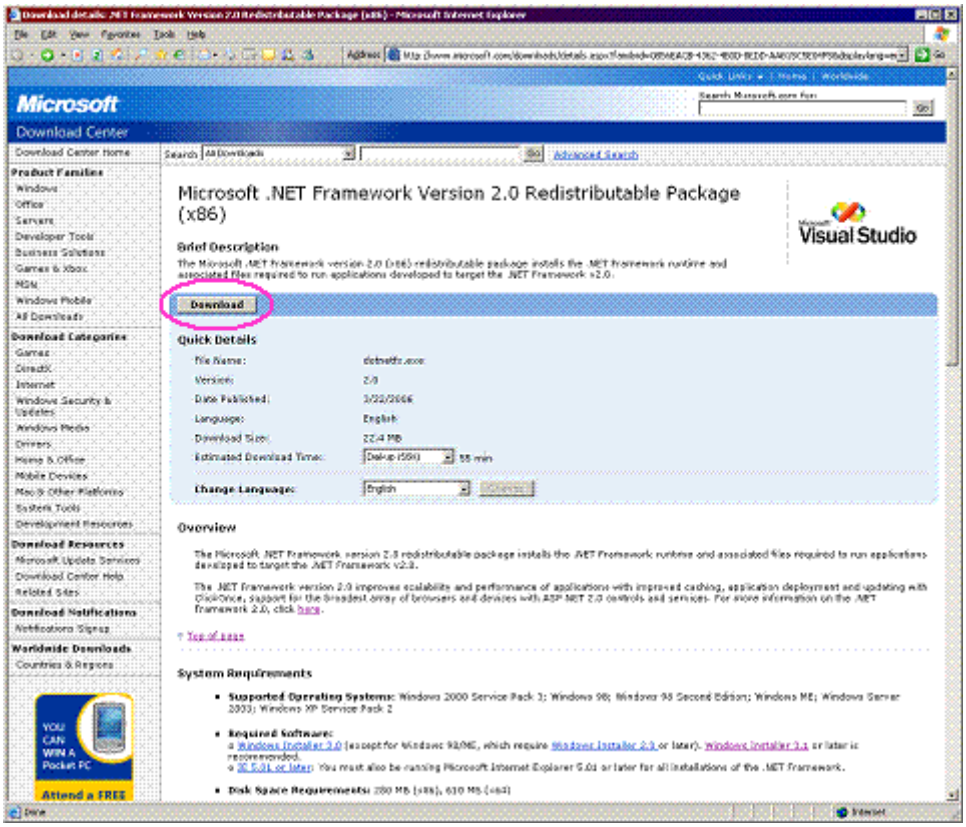
INSTALLATION INSTRUCTIONS FOR MICROSOFT .NET FRAMEWORK 2.0

1. To obtain the Microsoft .Net Framework version 2.0 navigate your web browser to **here**.

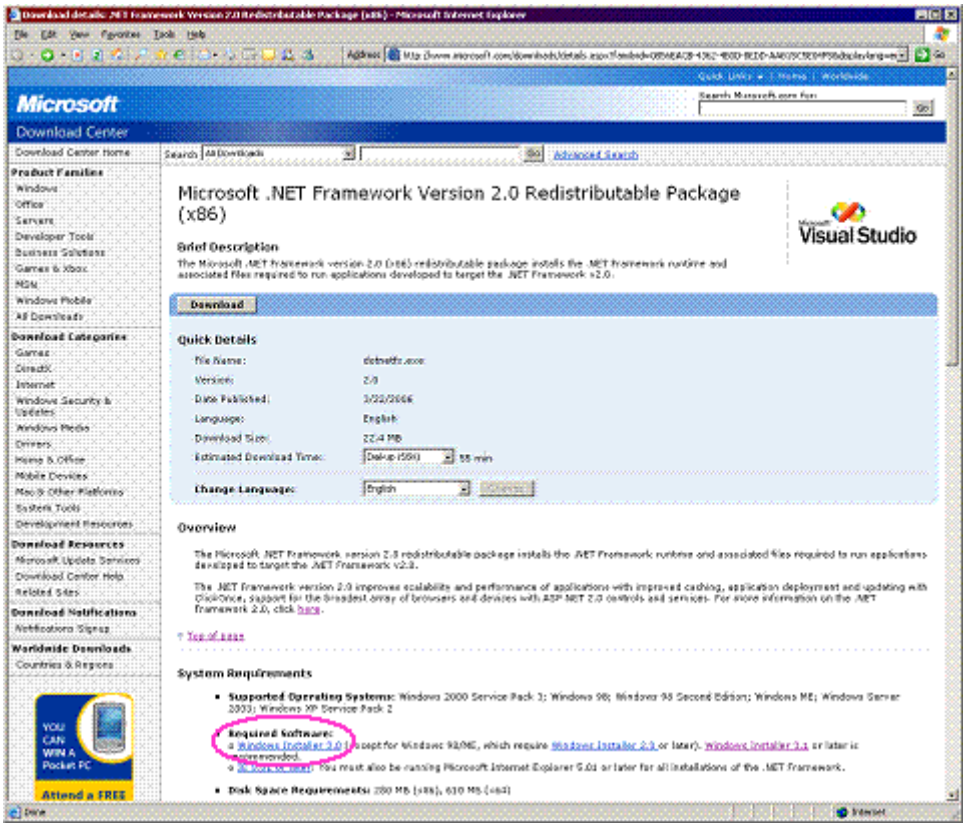
2. Click on the 'Download' button as shown in the Figure below.



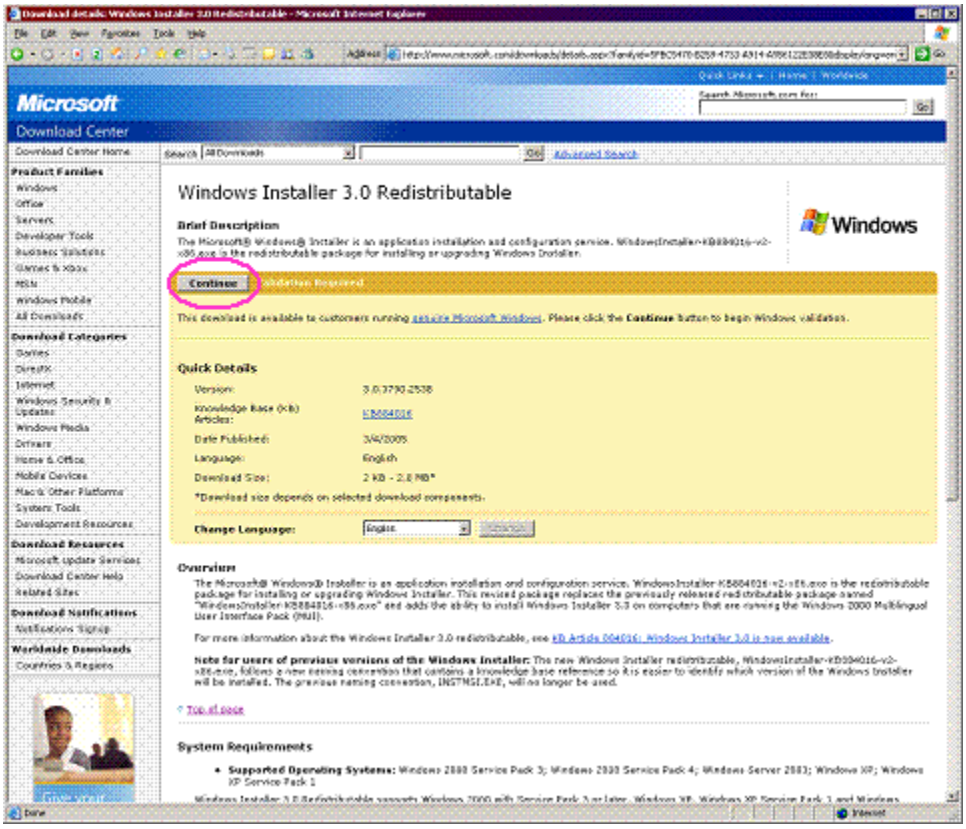
3. To install from the Internet, click on "Run". To download the install program ("dotnetfx.exe") to your computer and run it later, click on "Save" and select a location for the file to be saved.

4. If you elect to run it from the Internet, you will see a new Window like that shown below. Select "Run" and follow any additional prompts or instructions to complete the installation.

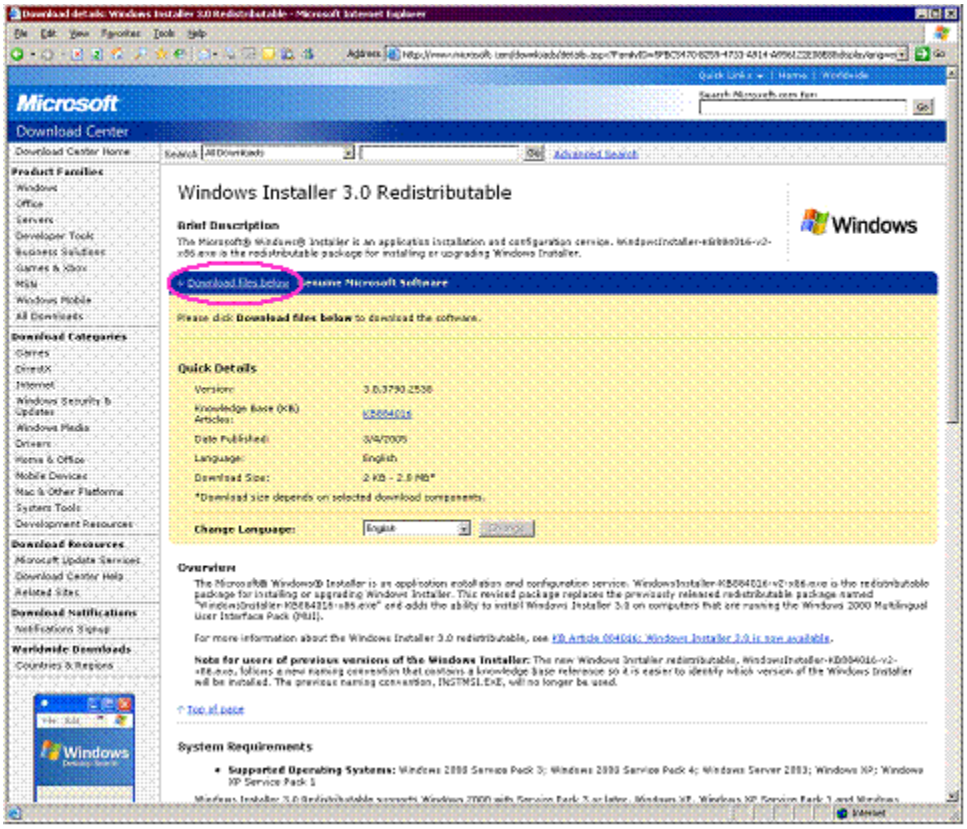
5. If instead you opt to download the "dotnetfx.exe" executable and install it later, you may also need to update your Windows Installer to version 3.0. To update your Windows Installer, click on the Windows Installer 3.0 link from the same initial window as shown below.



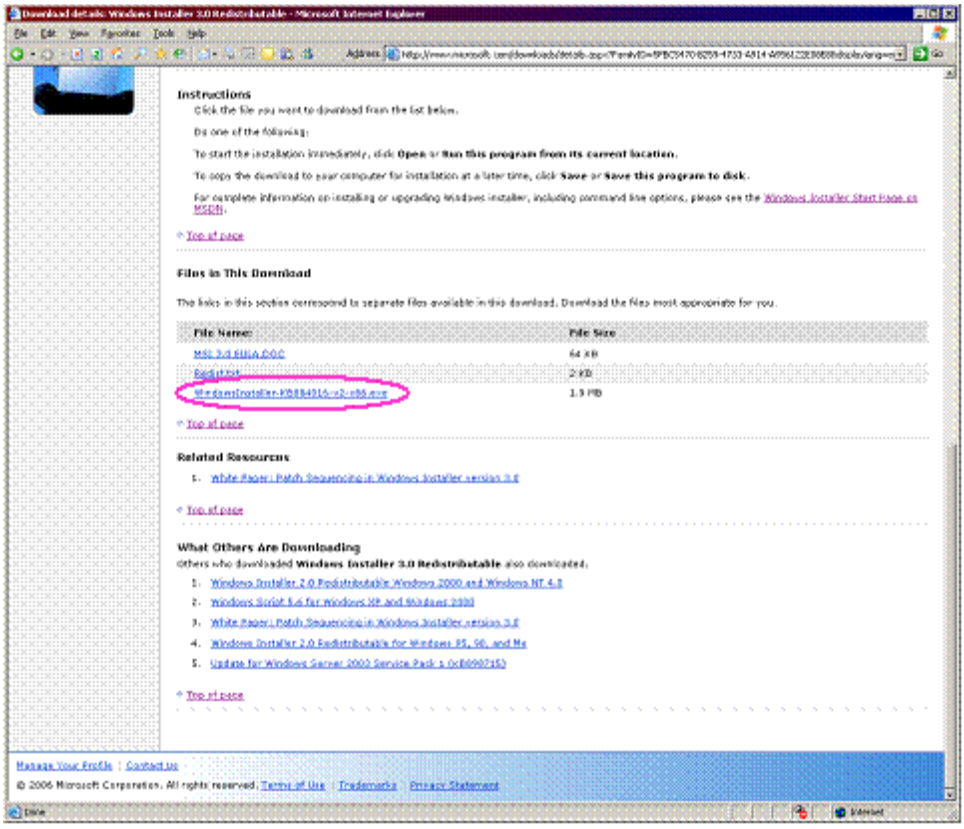
6. The Windows Installer download page will appear as shown below; Click the "Continue" button.



7. A revised Windows Installer page will now appear and the Continue button will have been replaced by a "Download files below" link. Click on this link, which will take you to a bookmark further down on the same page.



8. From the list of available files, click on the file called ”WindowsInstaller-KB884016-v2-x86.exe”. Follow the same basic installation process as described for the .NET Framework. Once the Windows Installer Version 3.0 has been installed, you can now go back and install the .NET Framework as described above.



II- IIS : Installation & Configuration

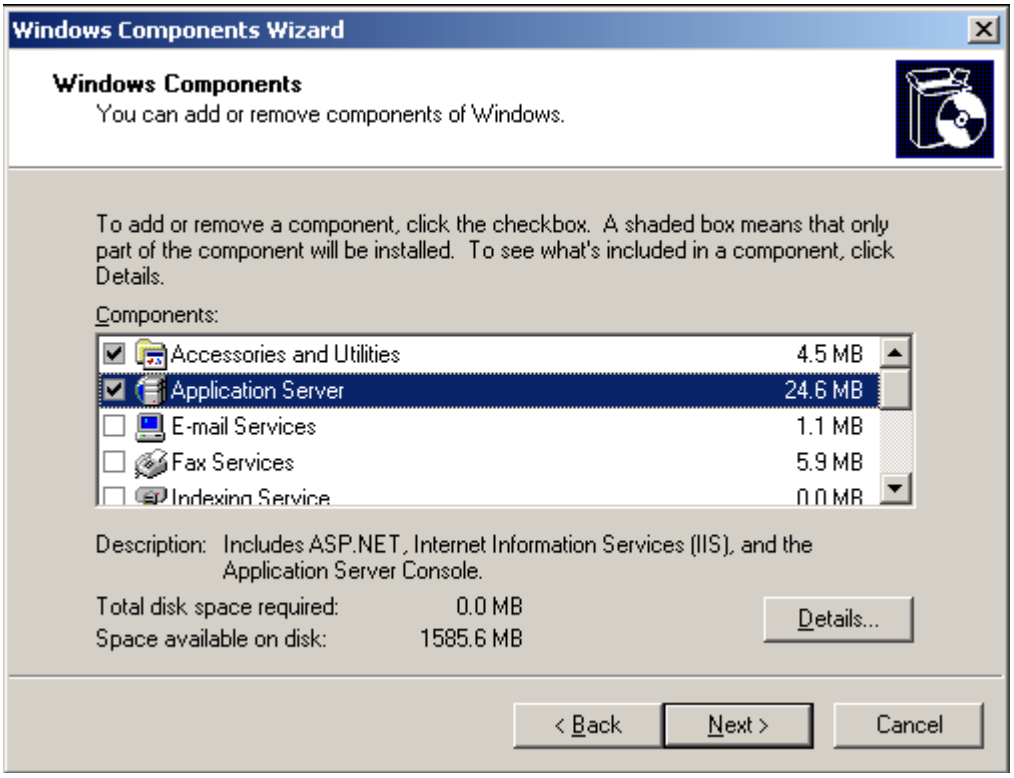
Depending on how your server is set up, you may or may not have Microsoft IIS installed. IIS is a mandatory install if you want to use Helm. It is used to host the Helm website, and will also host any websites you wish to create.

Installing IIS

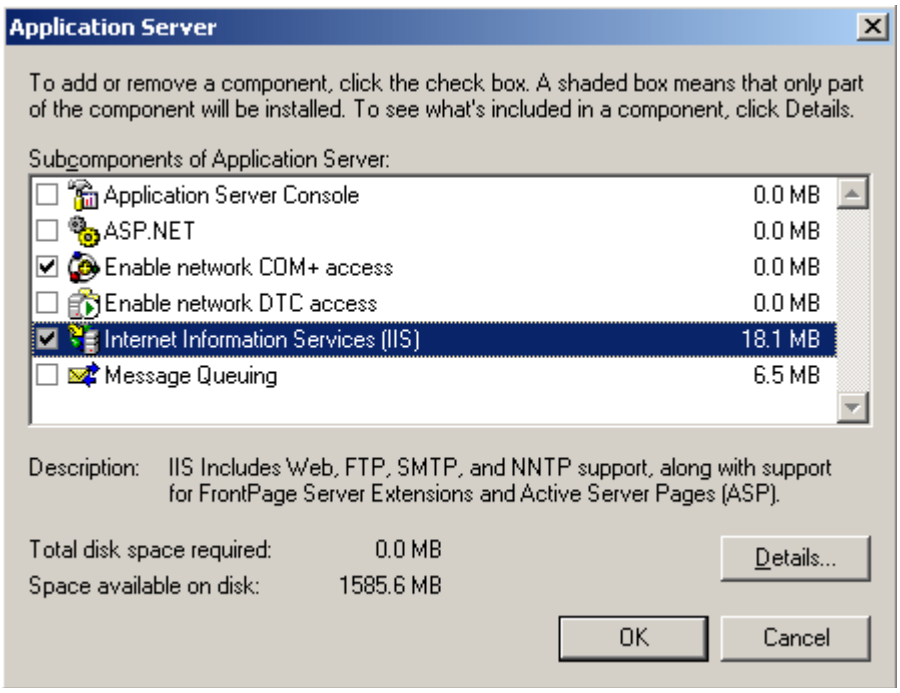
Note:- These are guidelines only. We will not provide support for IIS or any other 3rd party applications directly.

1.) Go to Start > Control Panel > Add/Remove Programs > Add/Remove Windows Components.

2.) Double-click Application Server.



3.) You will see that Internet Information Services (IIS) is not checked. Check the box. Press "OK".



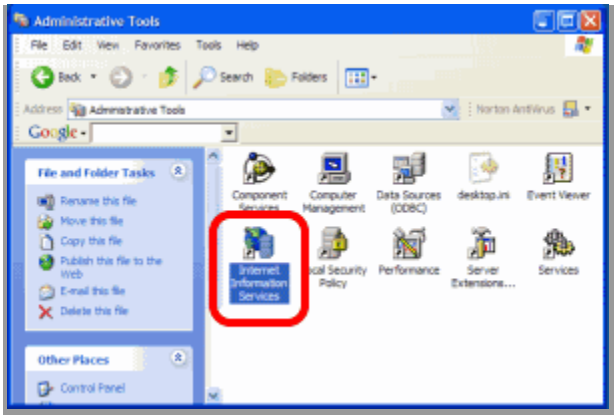
You may need your Windows CD in the server drive before you can do this.
Once completed, IIS is installed. You will now need to refer to IIS documentation to start configuring it to your requirements.

Configuration IIS

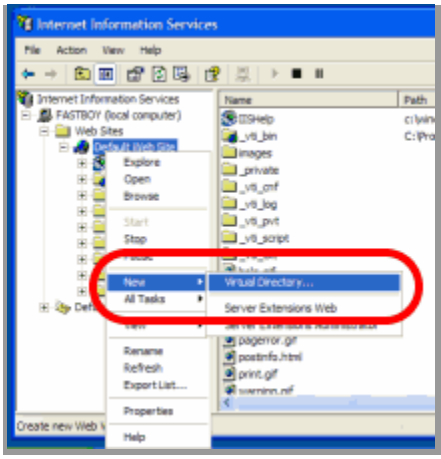
UniBlack team gives you the option to install Shradha website into IIS on installation however if you would like to do it **manually** you may use this guide.

UniBlack team recommends using the builtin Web Server on a different port number rather than using IIS as the built in web server is easier to configure and has features specific to UniBlack team

- Click on Start -> Control Panel
- Double click Administrative Tools
- Double click Internet Information Services (as shown below)



- Open the + sign next to the local computer
- Open the + sign next to Web Sites
- Open the + sign next to Default Web Site
- Right click on Default Web Site, choose New, choose Virtual Directory (as shown below)



- Click the Next button on the first wizard screen
- Enter devhound in the alias edit box (this can be anything you like)
- Click on Next

- Click on the Browse button and choose c:\program files\devhound\cgi (note : this may be different depending on where you chose to install UniBlack team)
- Click the Ok button for the directory and Click on Next
- Check the option Execute (Such as ISAPI application or CGI)
- Click on Next and click on Finish

- Click on Start -> All Programs -> UniBlack team -> Configuration
- Enter /devhound/web in the relative web directory box where Shradha website is the IIS alias you defined
- Click on Apply and close configuration
- Open your web browser with http://localpcname/ Shradha/ Shradha.dll where localpcname is the computer name of this pc and devhound is the alias defined in IIS.

- NOTE : You will need to change the security on your data folder to modify permission for IUSR_SERVERNAME and execute permission on devhound.dll. Where SERVERNAME is the name of the server

Windows Server 2003 Additional Install (IIS6)

- Click on Start -> Administrator Tools -> IIS Manager
- Select "Web Service Extensions"
- Click "Add a new web service extension"
- Enter " Shradha " for the extension name
- Click "Add"
- Choose " Shradha.dll" from c:\program files\ Shradha \cgi
- Click on "Ok"
- Click on the "Set extension status to Allowed" checkbox
- Click "Ok"

Read Only Database Error

This is a sharing problem. Internet Information services (IIS) runs all web applications under the user profile IUSR_MACHINENAME (where MACHINENAME is the computers name). Right click on the data subfolder of UniBlack team and click the security tab. Add IUSR_MACHINENAME to the list of user with read and write access. For devhound.dll or devhound.exe it should also have execute access.

Also, if you are using Windows XP you will need to turn off simple file sharing : open windows explorer, tools menu, folder options, view tab, scroll down and uncheck simple file sharing

SQL Server Notes

If you are using SQL Server and IIS you will need to make sure the user profile IUSR_MACHINENAME is

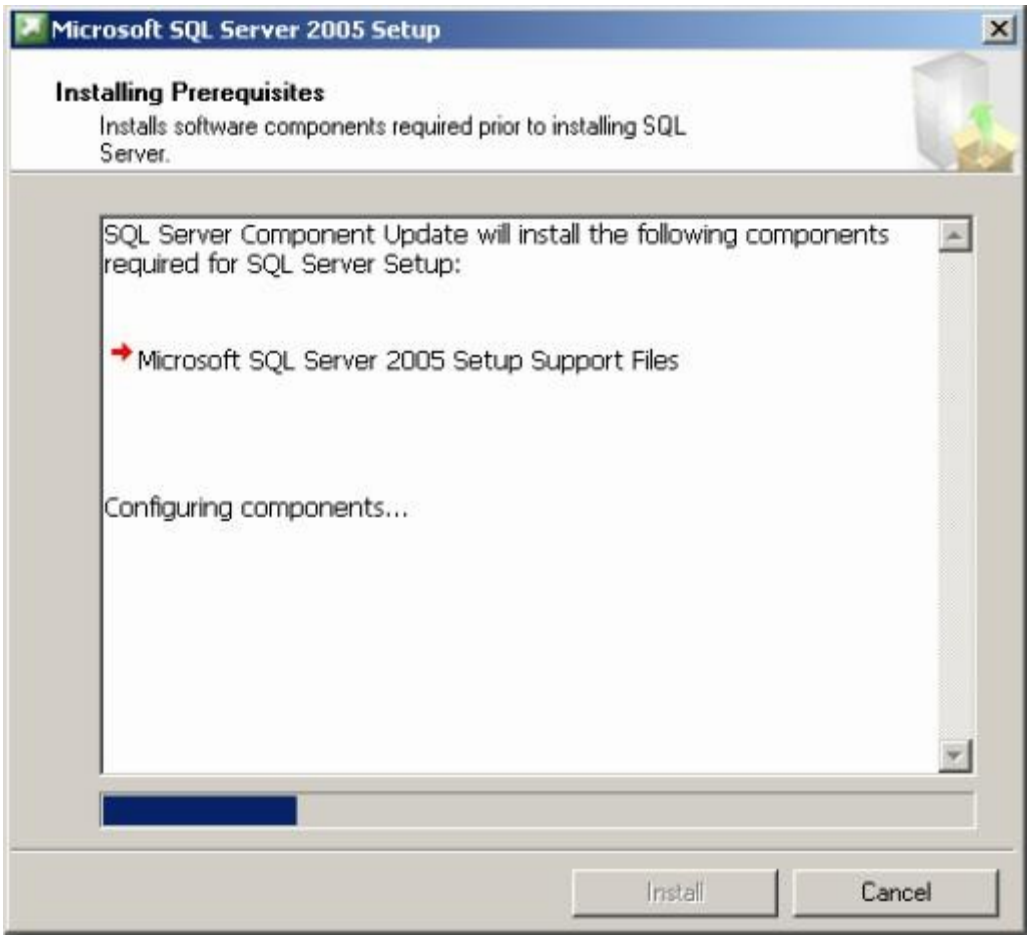
granted access within SQL Server. Alternatively you may open IIS and change the properties of devhound.dll (and/or devhound.exe) and set the file security for anonymous access to a user profile that does have access to SQL server (such as administrator)

III-Microsoft SQL Server 2005 Installation Guide

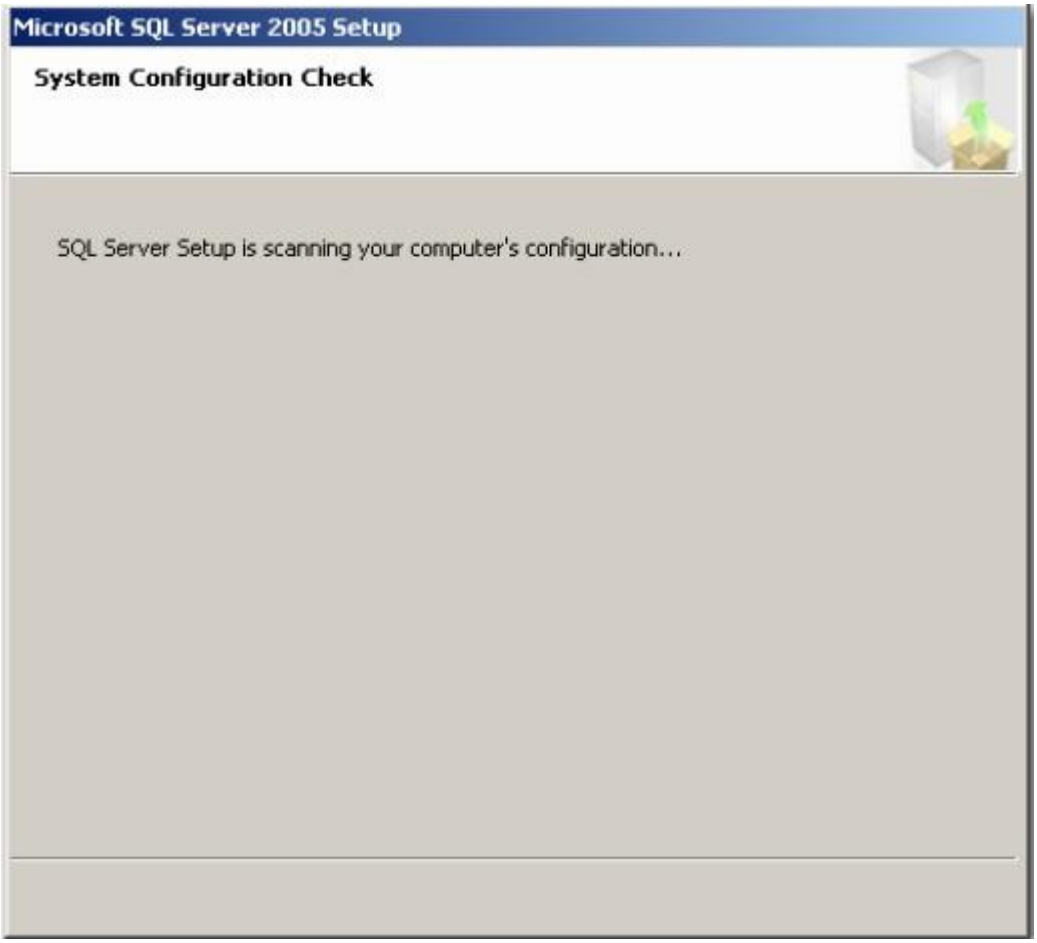
Inserting the Installation CD

Click to install the "Server Component,tool,Books Online and samples".

Accept the "End User License Agreement". Click Next.

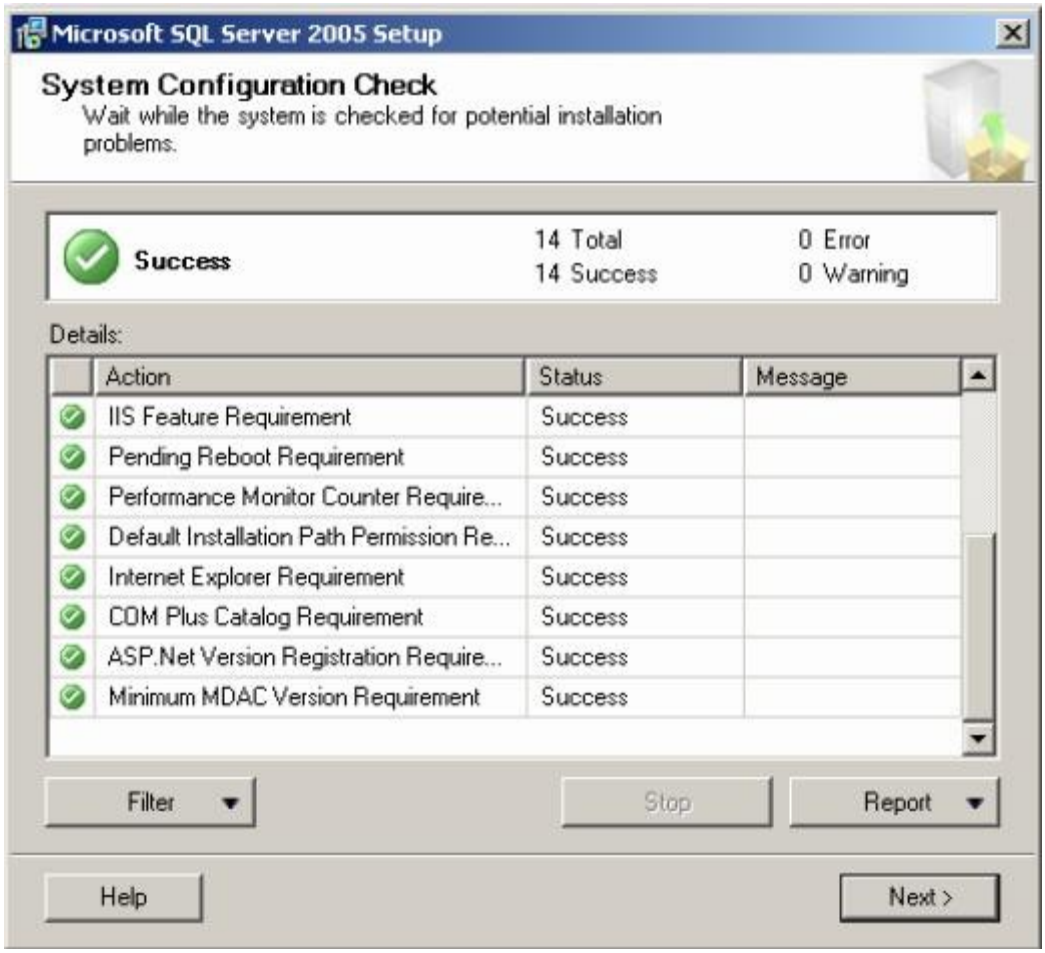


The Installing Prerequites window will appear.

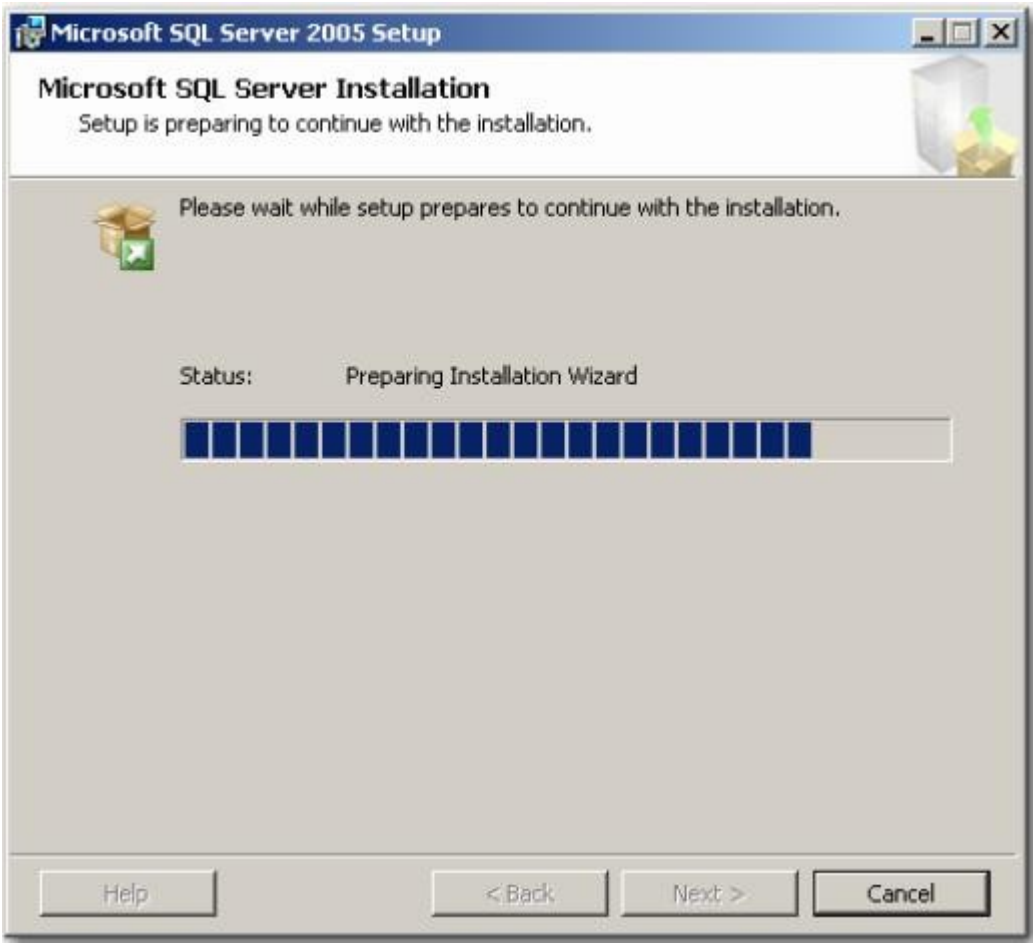


Once the Installation of the prereqiutes are completed click Next.

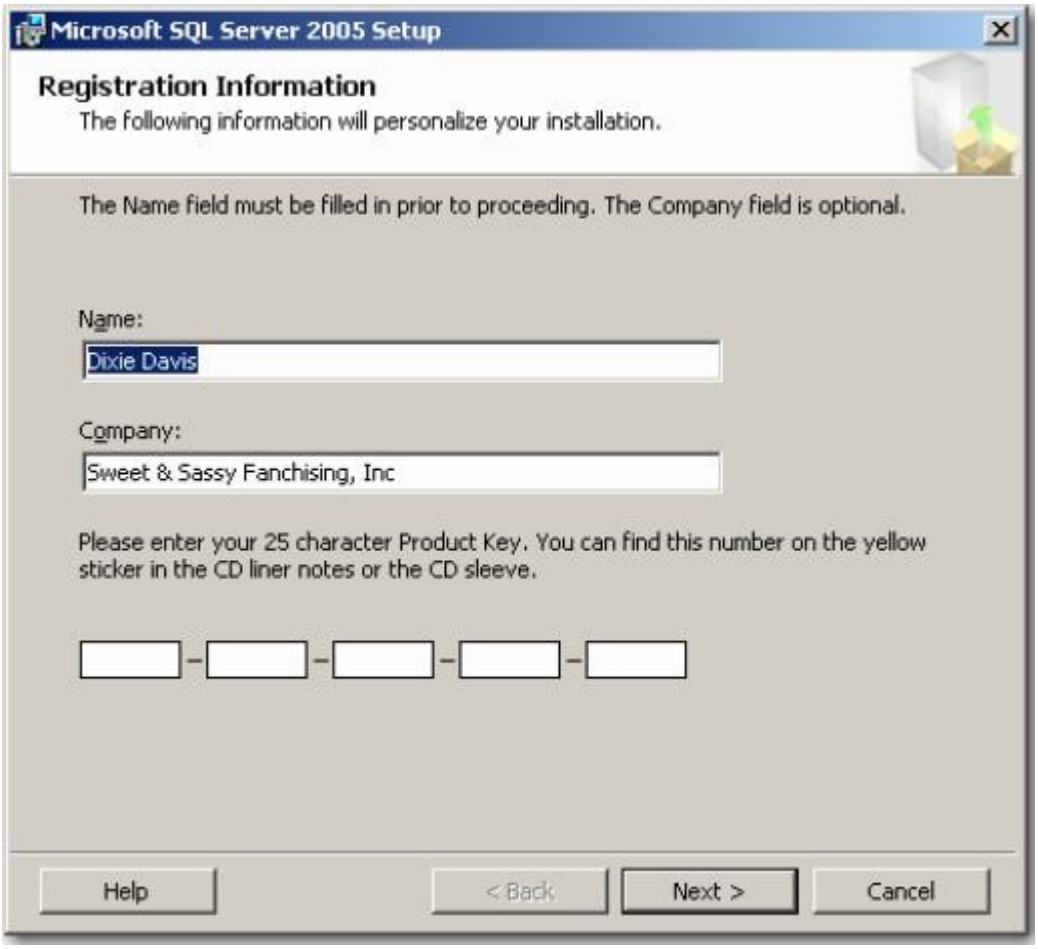
The SQL Server Installation Wizard will now appear. Click Next.



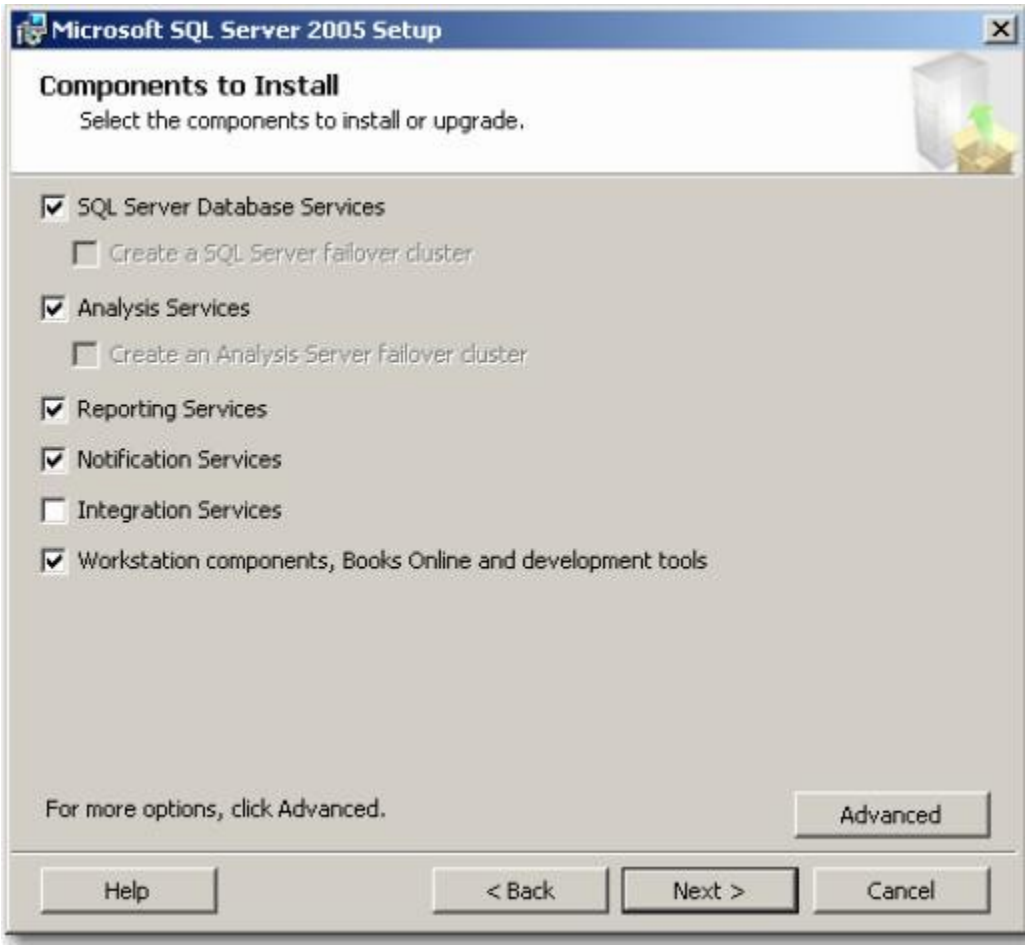
The System Configuration Check window will appear.The status of each should indicate a status of "Success".If everything checks out,click Next.



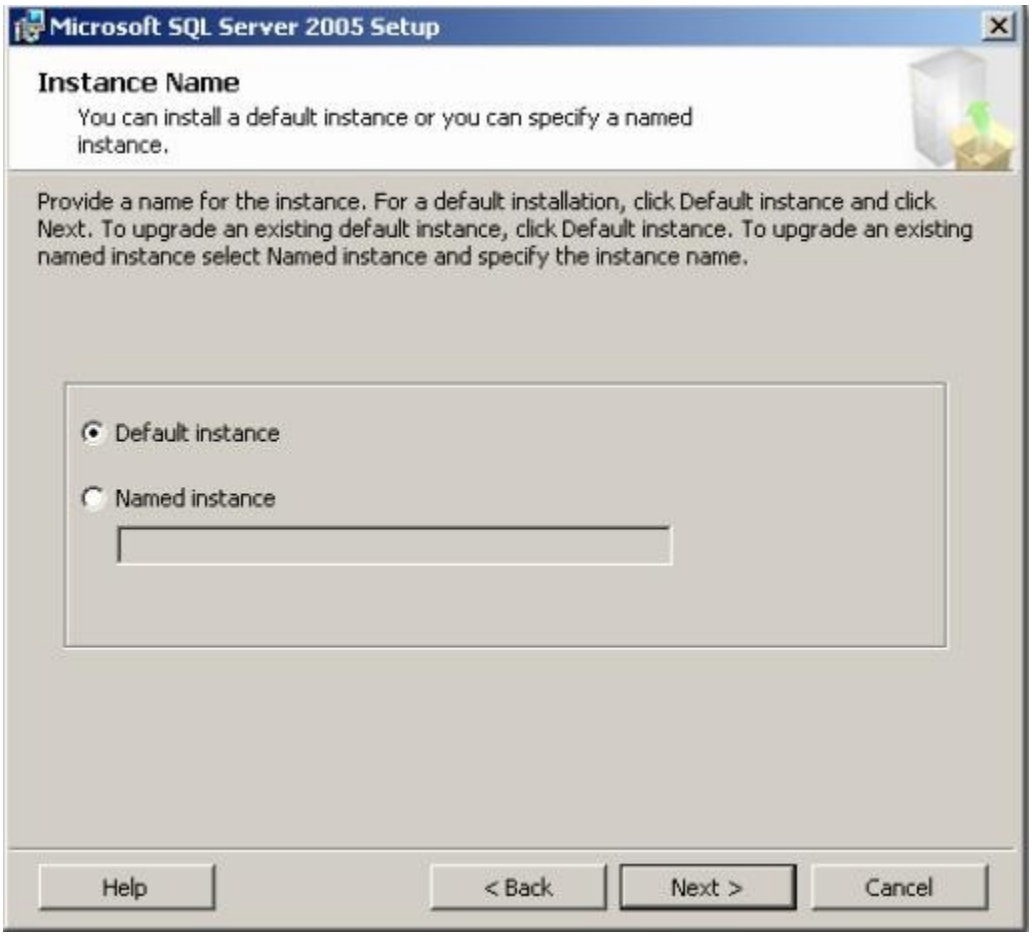
The SQL Server installation will begin to prepare the installation.



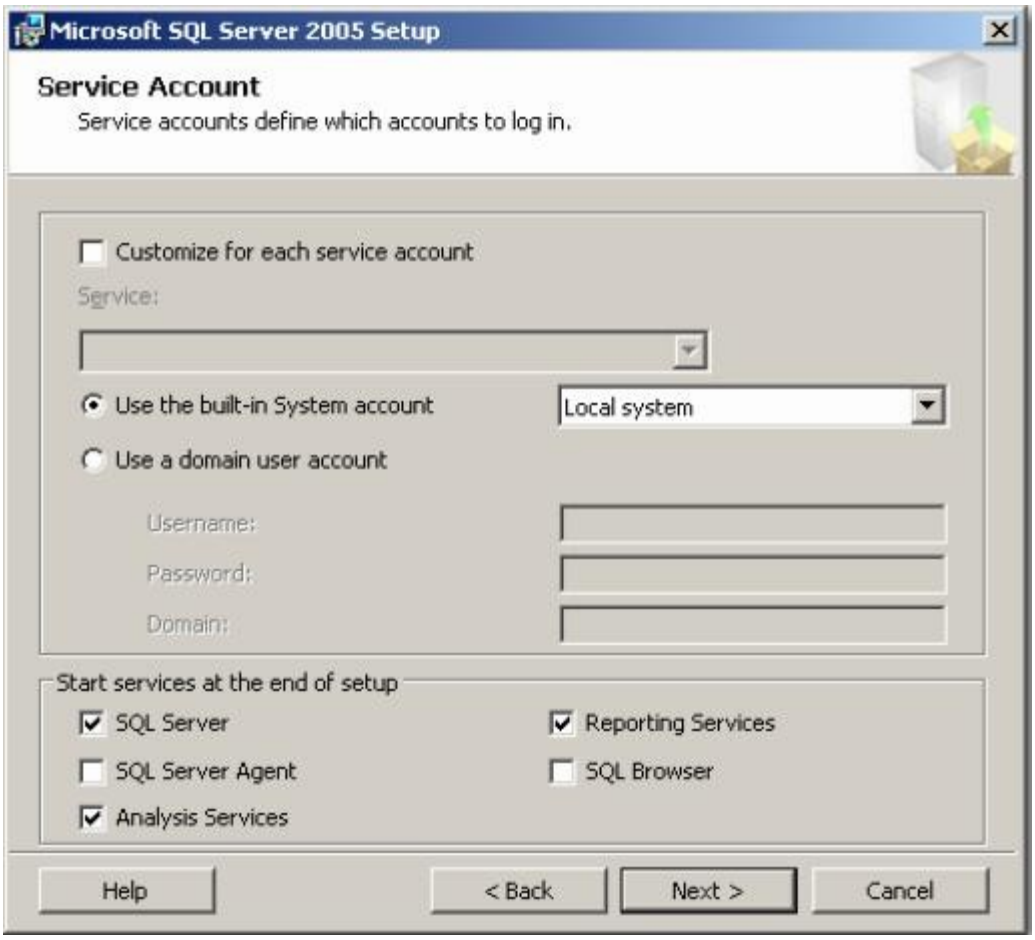
The Registration Information window will appear.Please locate the registration number and input below.Click Next when finished.



Check the followings boxes when the Components to install window appears.Click Next when finished.

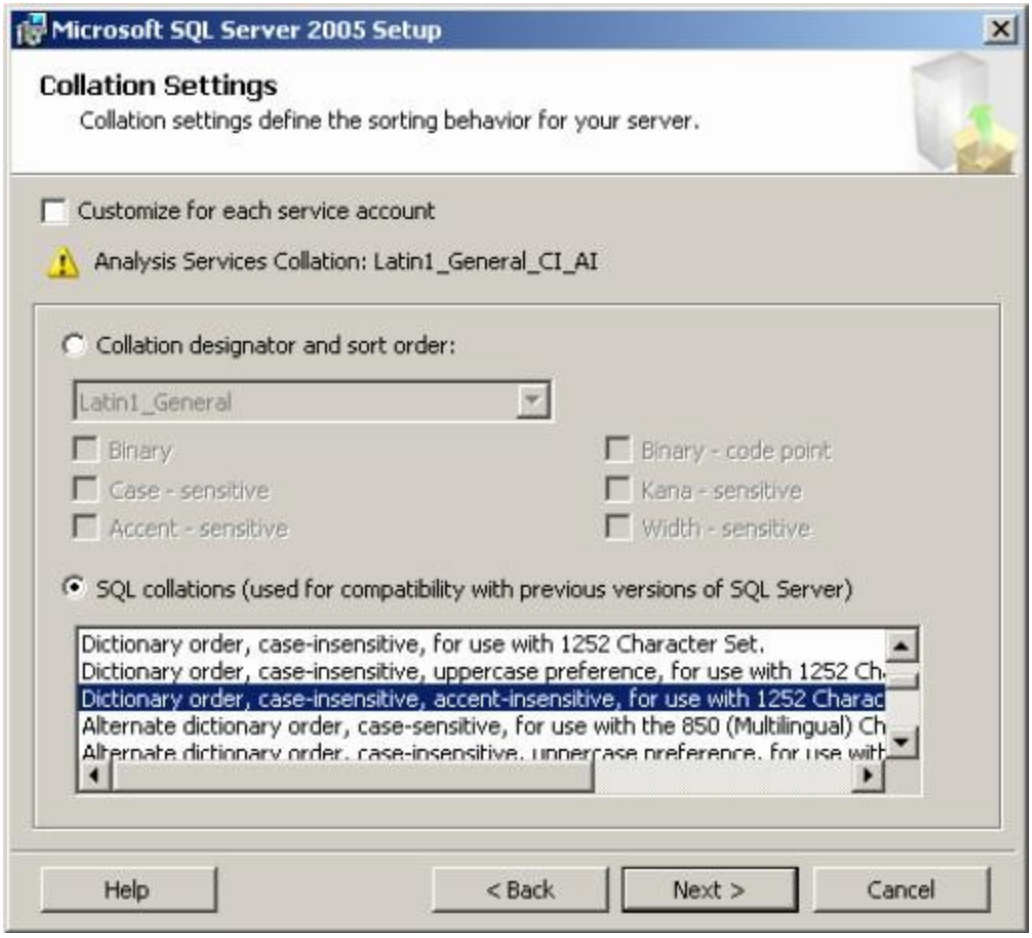


When the "Instance Name" window appears,be sure that "Default Instance" is selected and click Next.

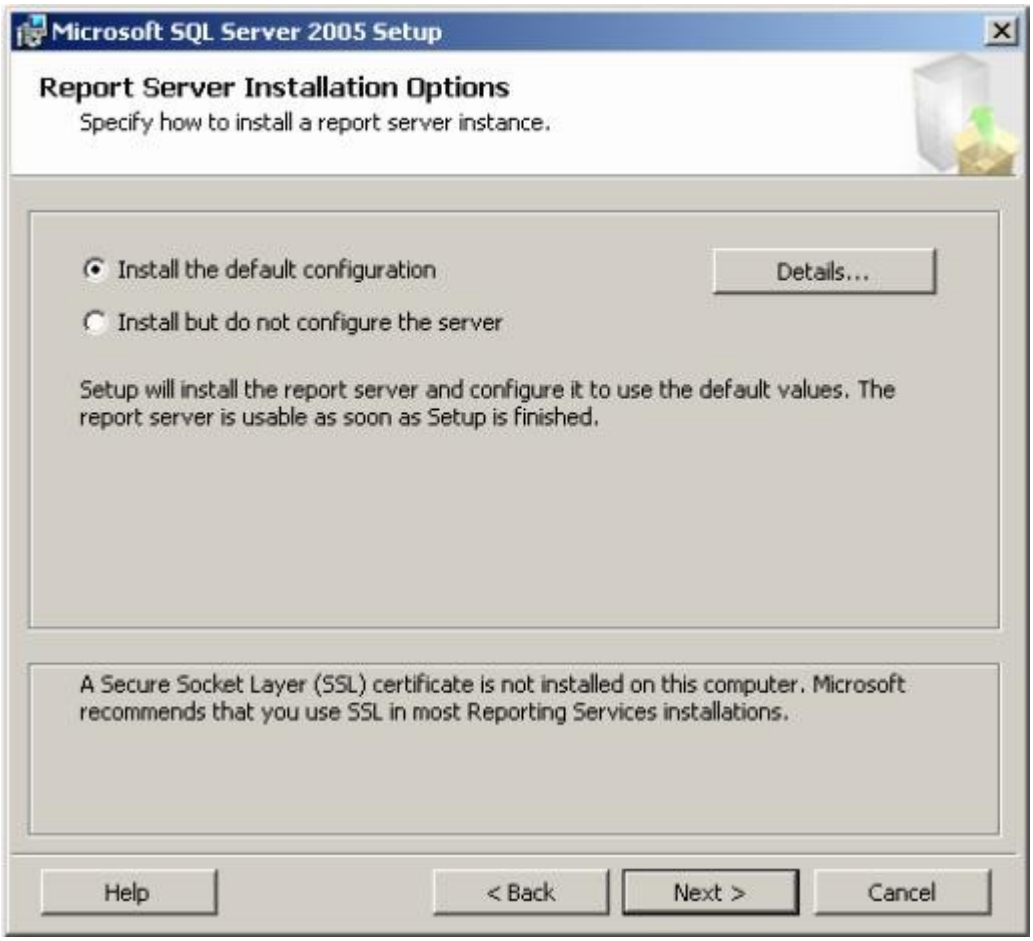


On the "Service Account" window, please select the option for "Use the built-in System account".Be sure that "Local System" is selected.Click Next when finished.

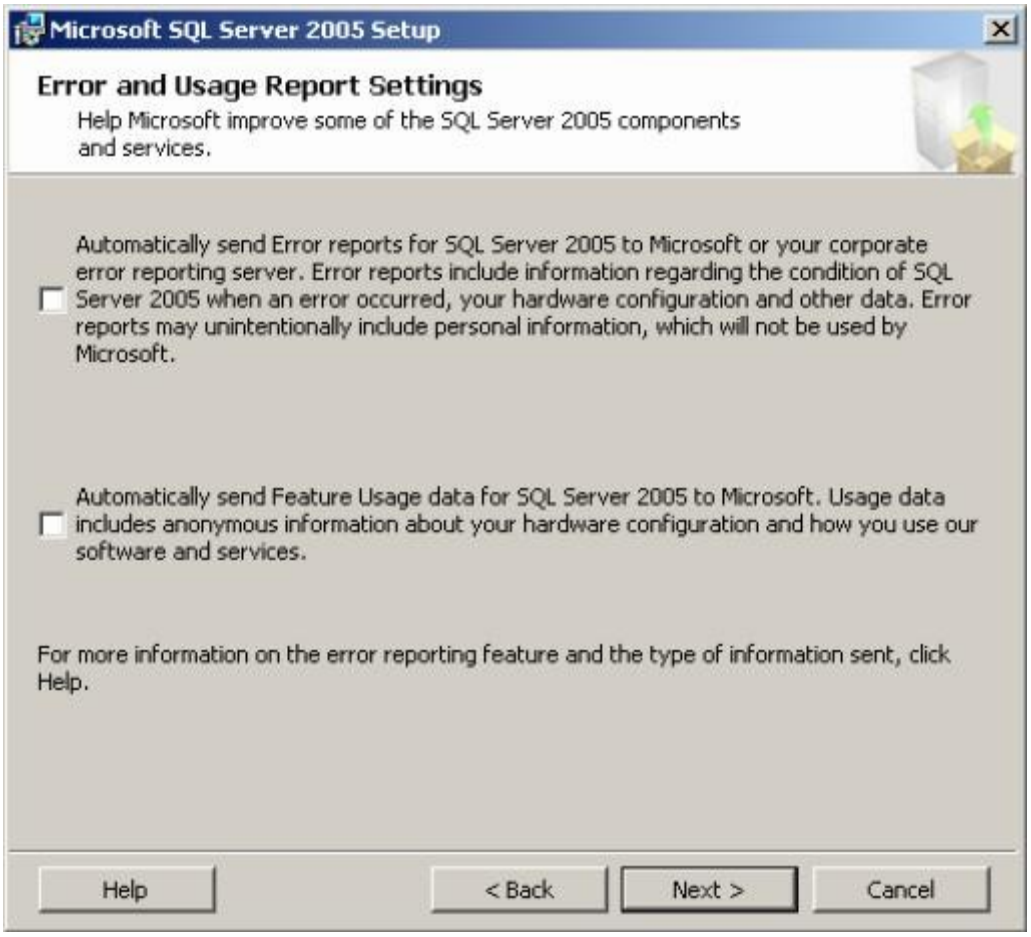
Select the "Mixed Mode" option on the "Authentication Mode" window.At this point you may specify an **sa** logon password.Leave it blank.Click Next when finished.



For the "Collation Settings" window, please select the option for "Dictionary order, case-insensitive, accent-insensitive, for use with 1225 Character Set". Click Next when finished.

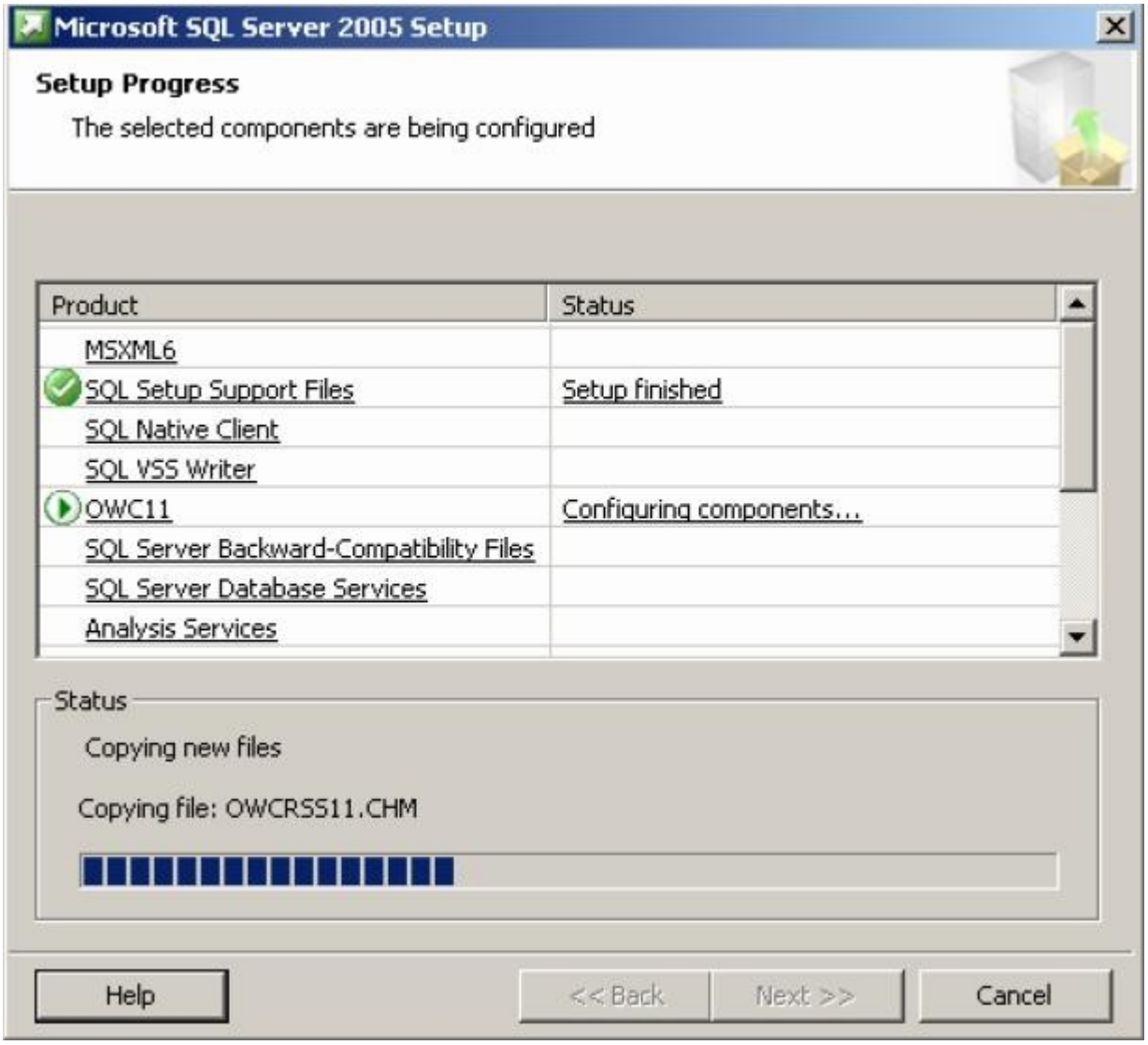


For the Report Server Installation Options, leave all defaults and click Next.

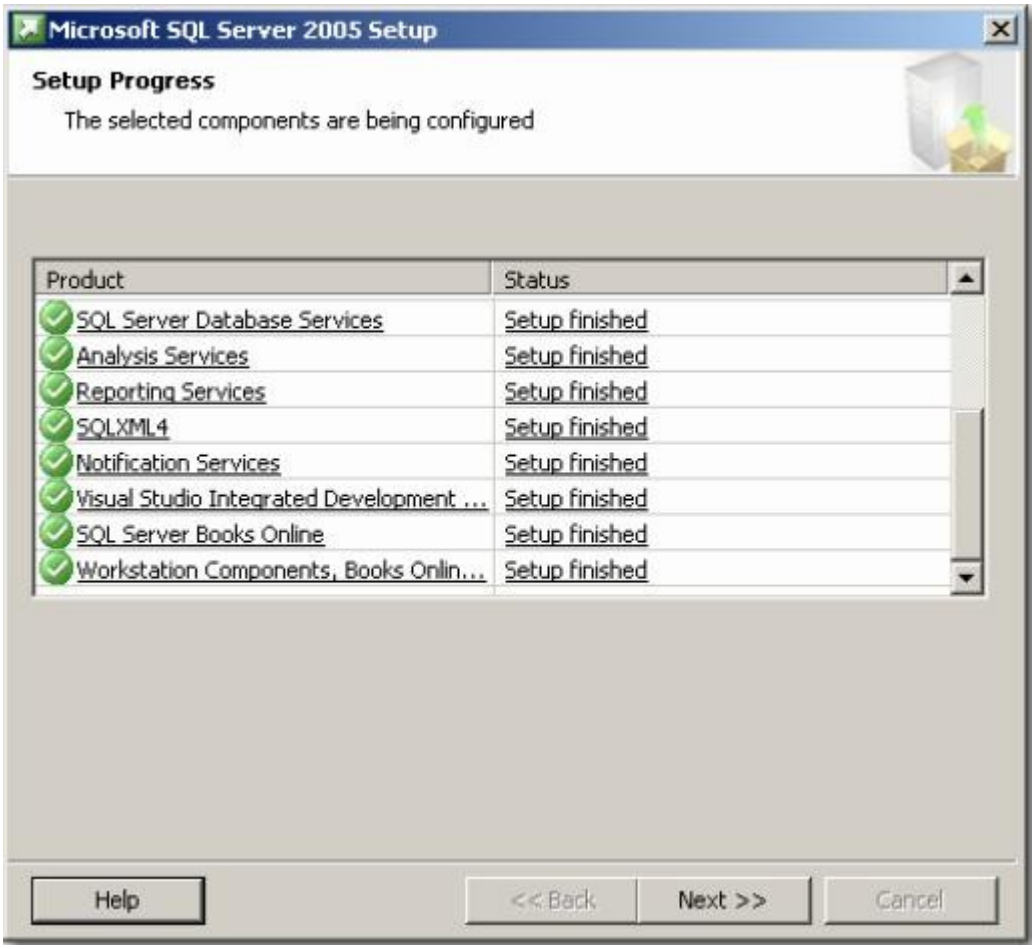


The Error and Usage Report Settings windows will appear, if you wish to send info to Microsoft, select each item, otherwise, please click Next to continue.

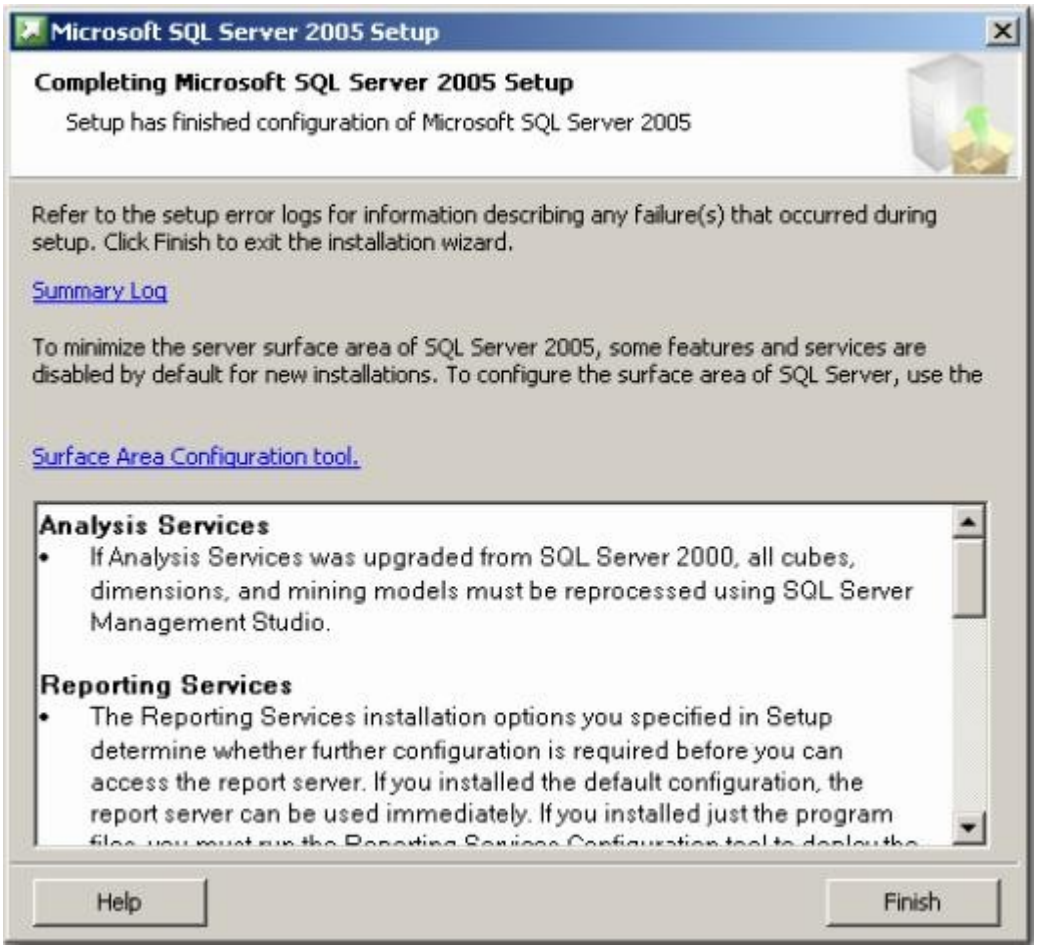
The Ready to Install window will appear. Review the components getting installed and click the Next button to continue.



The "Setup Progress" window will appear. This will take several minutes to finish.

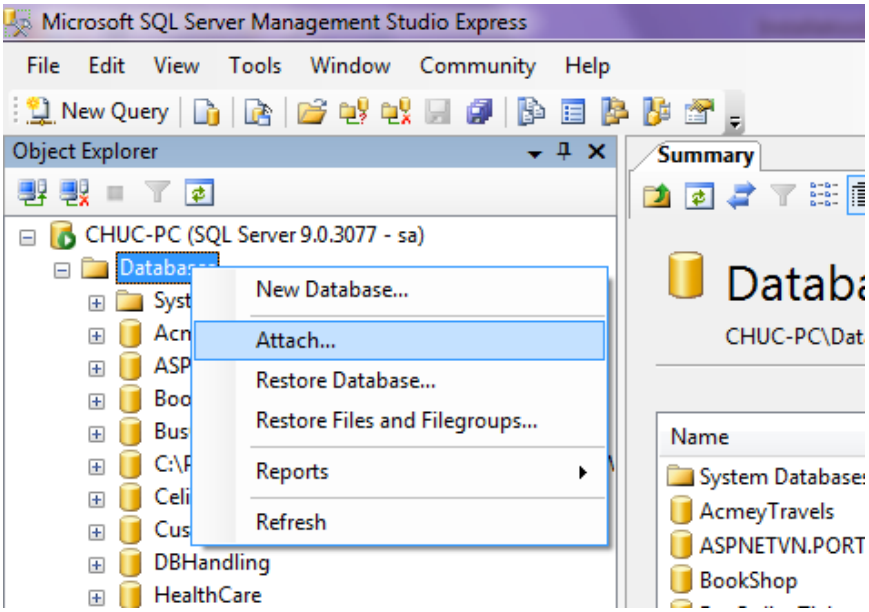


When the setup finishes, each status should indicate that the "Setup Finished". Click Next to continue.

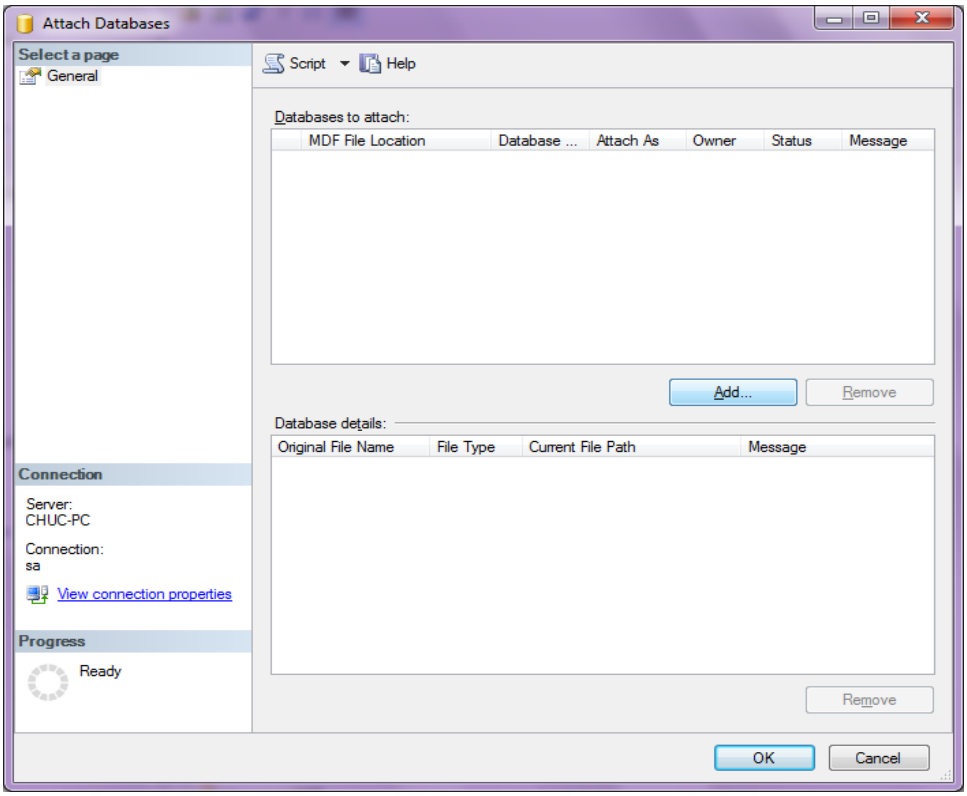


When completed,the "Completing Microsoft SQL Server 2005 Setup" window will appear.Review the services installed and click Finish.

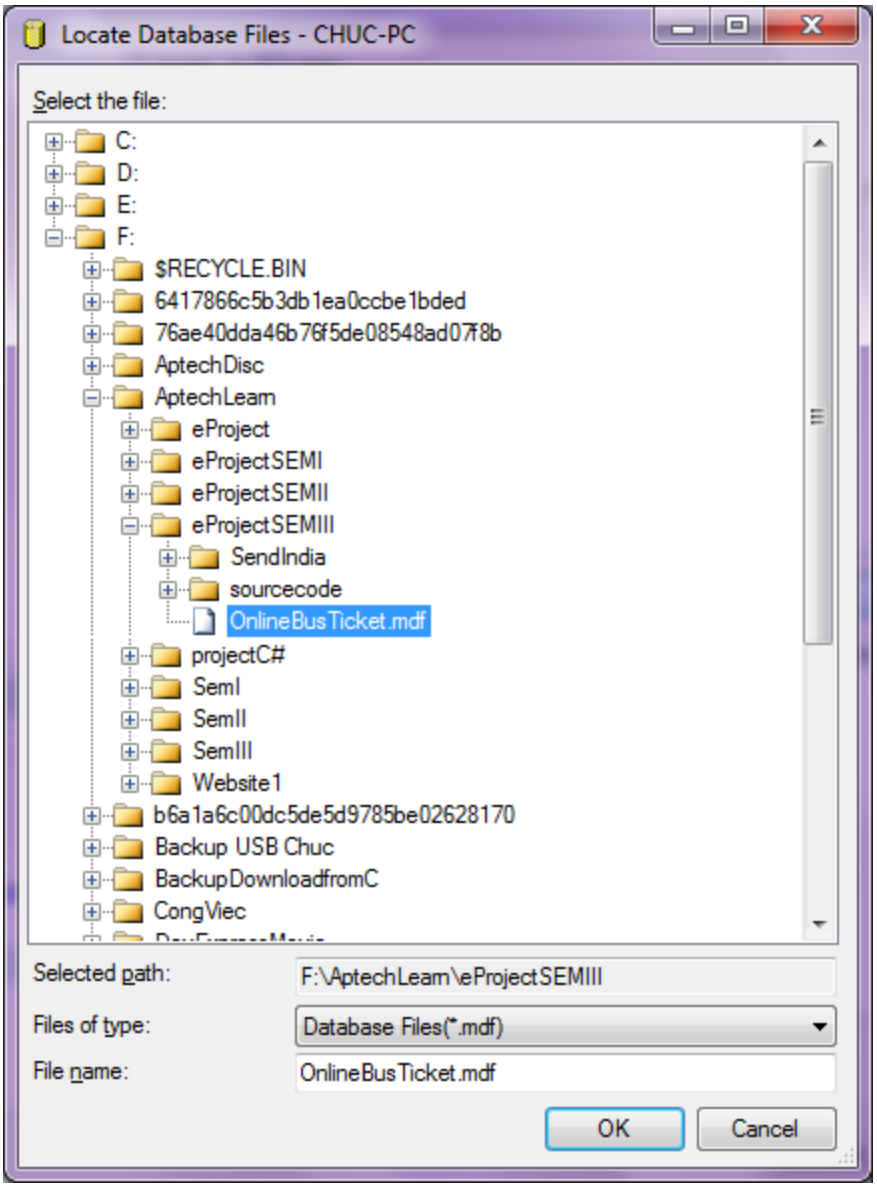
Attach database



Select Database file path and click "Attach"



Chose Add



Chose the database name **OnlineBusTicket**

Notice:

+User : admin

+Pass : admin