

Sitecore CMS 6.2 Installation Guide



Table of Contents

Chapter 1	Introduction	.4
Chapter 2	Silecore CMS 6 Requirements	. ວ
2.1 8	Sitecore Hosting Environment Requirements	.6
2.1.1	Operating System Requirements	.6
2.1.2	.NET Framework Requirements	.6
2.1.3	Database Requirements	.6
2.1.4	Hardware Requirements	.7
Mini	mum Sitecore Development Host Requirements	.7
Mini	mum Sitecore Server Host Requirements	.7
2.2 S	Sitecore Client Environment Requirements	.8
2.2.1	Browser Requirements	.8
2.2.2	Hardware Requirements	.8
Chapter 3	Installing from the .ZIP File	.9
3.1 Ir	nstalling Sitecore	10
3.2 P	Preparing to Install Sitecore CMS 6	11
3.3 L	Ipdating the Security Settings for a Folder	12
3.3.1	Setting Permissions to Inherit	12
Mak	ing the Security Tab Visible	12
Mak	ing an Account Visible	13
3.4 G	Quick Minimal Installation	14
3.4.1	Detailed Installation	15
3.5 C	Configuring the IIS	17
3.5.1	IIS 5.6 (Windows XP, Windows 2000, Windows 2003)	17
352	IIS 7 IIS 7 5 (Windows 2008 Windows Vista)	19
36 0	Configuring Folder Permissions	24
361	Root Folder Permissions	24
362	Snecific Folder Permissions	24
363	Deny Execute Permissions on the Unload Folder	25
364	Grant Access to the Globalization Folder	26
365	Grant Access to the Temporary Folders	26
37 N	Aicrosoft SOL Server Configuration	20
271	Visual Studio 2005 and SOL Server Everose Edition	27
3.7.1	Creating a Database Account for Sitecore CMS Databases on SOL Server 2005	21 27
3.7.Z	ofediling a Database Account for Silectile Civis Databases on SQL Server 2005	21
20 0101	Turing Execute Rights to Stored Flocedules	29
3.0 C	Deet Installation Stone	20 22
3.9 F	Debuild the Secret Index	ンZ つつ
3.9.1	Rebuild the Search Index	3Z
3.9.2	Making Your Computer More Secure	32
Disa	Ible all unused extensions in the IIS	32
3.10 U	Ininstalling Sitecore	34
Chapter 4	Using the Sitecore Installation Program	35
4.1 V	Vindows Vista Pre-Installation Steps	30
4.1.1	The UAC (User Account Control) Configuration	36
4.1.2	IIS 6 Configuration Compatibility Features	37
4.2 Ir	nstallation Process	39
4.2.1	SQL Server	42
Clier	nt Only Installation Type	45
Data	abases Only Installation Type	49
4.2.2	Oracle Tablespace	51
4.2.3	Oracle	51
Clier	nt Only Installation Type	54
Data	abases Only Installation Type	57
4.3 Ir	mportant Notes	60
4.4 T	roubleshooting	61

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



Chapter 5 Oracle Database Storage Setup	62
5.1 Quick Start Setup (Oracle 10g Express Edition only)	63
5.2 Oracle Storage Setup In Detail	64
5.2.1 Database Server Preparations	64
5.2.2 Website Server Setup Instructions	64
Adding a Connection to the Oracle Instance	65



Chapter 1

Introduction

This document describes the Sitecore CMS installation. The document includes the following chapters.

- Chapter 1 Sitecore CMS 6 Requirements This chapter describes the prerequisites, hardware and software requirements for Sitecore CMS 6 host and client computers.
- Chapter 2 Installing from the .ZIP This chapter describes the various approaches to installing Sitecore depending on your choice of database technologies, the server administrator's preferences, the environment (development, testing, content authoring, content delivery, and so on.)
- Chapter 3 Using the Sitecore Installation Program
 This chapter describes the Sitecore CMS installation program that guides you through
 the CMS setup process.

Please contact <u>http://support.sitecore.net/helpdesk/</u> for assistance or to report any discrepancies between this document and the product.



Chapter 2

Sitecore CMS 6 Requirements

This chapter describes the prerequisites, hardware, and software requirements for Sitecore CMS 6 host and client computers. In this document the term "server" refers to a Windows OS Web server and the term "host" refers to an installation of Sitecore CMS on either a server or workstation.

This chapter contains the following sections:

- Sitecore Hosting Environment Requirements
- Sitecore Client Environment Requirements



2.1 Sitecore Hosting Environment Requirements

2.1.1 Operating System Requirements

Sitecore CMS can be hosted on the following Microsoft operating systems:

- Windows XP (32-bit)
- Windows Server 2003 (32/64-bit)
- Windows Server 2008 (32/64-bit)
- Windows Server 2008 R2
- Windows Vista (32/64-bit)
- Windows 7 (32/64-bit)

Important

Visit Windows Update — http://windowsupdate.microsoft.com — and install all the appropriate service packs and security updates on all of your Sitecore CMS host and client computers.

Windows XP Service Pack 2 (or a later update) must be installed on every Microsoft Windows XP computer that hosts Sitecore or accesses Sitecore with Internet Explorer. Sitecore highly recommends Service Pack 2 (or a later update) for Microsoft Windows 2003. Service Pack 1 is required as a minimum.

Sitecore CMS supports the following editions of the Windows Vista operating system:

- Business
- Ultimate
- Enterprise

The other editions of Vista, such as Home Basic, have IIS server limitations.

Sitecore CMS must be installed on a local drive, not a UNC share.

2.1.2 .NET Framework Requirements

Sitecore CMS 6 requires .NET Framework 3.5.

Any available updates to the .NET framework should be applied to every Sitecore host.

Note

To reduce the number of ASP.NET configuration issues on Sitecore hosts, install IIS before updating the .NET framework.

2.1.3 Database Requirements

Sitecore CMS supports the following database servers:

- MS SQL Server 2005. Express Edition is also supported.
- MS SQL Server 2008 (recommended).
- Oracle 10g, 11g.
- SQLite.

Sitecore recommends that you run Microsoft SQL Server 2005 on a separate database server.



2.1.4 Hardware Requirements

Minimum Sitecore Development Host Requirements

- Processor: Intel Core Duo or faster processor.
- RAM: 1 GB minimum, 2GB recommended.
- Software: Microsoft Visual Studio 2008 highly recommended.

Minimum Sitecore Server Host Requirements

- Processor: Intel Core Duo or faster processor, dual CPUs recommended.
- RAM: 2 GB minimum, 4GB recommended.



2.2 Sitecore Client Environment Requirements

2.2.1 Browser Requirements

Sitecore CMS clients are browser-based user interfaces. Sitecore clients can run on the following browsers:

- Firefox 3 Full support for the Content Editor, Preview, and Workbox. Limited support for the Page Editor.
- Microsoft Internet Explorer 6
- Microsoft Internet Explorer 7
- Microsoft Internet Explorer 8

If you are running Internet Explorer 6:

- You must install MSXML 4.0
- You must remove KB918899 (<u>http://support.microsoft.com/kb/923996</u>) or You must install KB923996 (http://support.microsoft.com/kb/923996)
- Windows XP: <u>http://www.microsoft.com/downloads/details.aspx?FamilyID=ff9bc431-01f3-48e8-9a58-d701d2e60c1d&DisplayLang=en</u>
- Windows 2003: <u>http://www.microsoft.com/downloads/details.aspx?familyid=4AE4AA58-97FB-4CCF-ABA4-F9271A9282E2&displaylang=en</u>

2.2.2 Hardware Requirements

- Processor: Intel Pentium 4 2GHz or faster processor.
- RAM: 512 MB minimum. 1GB recommended.
- TCP/IP connection at 512Kbps or faster to the Sitecore CMS host.
- 1024x768 or greater screen resolution required for advanced operations and specific modules.

You do not need to install any additional software on Sitecore CMS clients that are used to access Sitecore CMS hosts.



Chapter 3

Installing from the .ZIP File

Depending on your choice of database technologies, the server administrator's preferences, and the environment you want to run — development, testing, content authoring, content delivery, and so on — there are various ways in which you can install Sitecore.

This chapter contains the following sections:

- Installing Sitecore
- Preparing to Install Sitecore CMS 6
- Updating the Security Settings for a Folder
- Quick Minimal Installation
- Configuring the IIS
- Configuring Folder Permissions
- Microsoft SQL Server Configuration
- Creating a Web Project in Visual Studio
- Post-Installation Steps
- Uninstalling Sitecore



3.1 Installing Sitecore

For small implementations including developer workstations and testing environments, Sitecore CMS and the database server can be installed on a single computer. For larger implementations the database server is typically separated from the application server. The content authoring environment for business users is also frequently separated from the content delivery environment that is accessed by internet users.

With IIS, the Web server and the application server are inherently combined in ASP.NET. Sitecore CMS provides versioning, workflow, locking, security, browser-based user interfaces, abstract XML data storage and other facilities that improve the functionality of ASP.NET for Web solutions. Sitecore can be broken down into three logical components regardless of whether a setup .exe file or a .zip file is used to install a new instance of Sitecore and regardless of the database technology that is used.

The three logical components are:

- IIS document root ("the Web site").
- Supporting file system for logs and data. The data can be stored under the document root.
- Supporting relational databases. The databases are often stored under the supporting file system.

The archive from which the new Sitecore instance is created can also contain SQL Server databases. Configuration is managed by files such as web.config and the files under the /App_Config folder.

The Sitecore CMS can be distributed in two ways:

- As an executable installation program .exe file(s).
- As an archived copy of a Sitecore CMS solution in a file system a zip file.

The installation program should be used whenever possible. It contains a wizard which guides you through the installation process.

Using the installation program requires considerably less manual effort than configuring the zip file.



3.2 Preparing to Install Sitecore CMS 6

When you thoroughly understand the Sitecore CMS architecture and have read the installation documentation, you should define a basic installation plan.

Before attempting to install Sitecore CMS, you should decide on the:

- Project name and acronym, for instance ProjectName.
- Acronym/prefix, for instance PN.
- Target installation file system root, for instance C:\inetpub\wwwroot\ProjectName.
- Database technology SQL Server 2008 or SQL Express, SQLite or Oracle.
- Database location locally or on a remote server.
- Appropriate Sitecore CMS license.
- Hardware.
- Administrative access to computers and databases.
- Access to Sitecore Developer Network (<u>http://sdn.sitecore.net</u>) contact a local sales office or partner manager.
- IIS configuration host headers, and so on.



3.3 Updating the Security Settings for a Folder

To update the security settings for a folder:

- 1. In Windows Explorer, right-click the folder and select Properties.
- 2. In the Properties dialog box, click the Security tab.
- 3. In the **Group or user names** field, select a user or group and grant them the appropriate permissions in the **Permissions for** field.

If the fields are selected and shaded, the permissions are inherited correctly from the parent folder.

3.3.1 Setting Permissions to Inherit

Permissions should be set to inherit. If permission is denied, errors occur when accessing file system resources.

To set permissions to inherit:

- 1. In Windows Explorer, right-click a parent folder such as *Website* or *Data* and select Properties.
- 2. In the **Properties** dialog box, click the **Security** tab.
- 3. In the **Security** tab, in the **Group or user names** field, select the IUSR_* and ASP.NET users.
- 4. In the **Security** tab, click Advanced.
- 5. In the Advanced Security Settings dialog box, select both the Allow inheritable permissions... and Replace permission entries checkboxes.

Making the Security Tab Visible

If the **Security** tab is not visible, — this can occur after upgrading from Windows XP Home to Professional:

- 1. In Windows Explorer, click Tools, Folder Options.
- 2. In the Folder Options dialog box, click the View tab.

neral view	File Types Offline Files	
	the types connecties	
	You can apply the view (such as Details or Tiles) t you are using for this folder to all folders. Apply to All Folders Reset All Folders	hat
dvanced set	tings:	
0 [Do not show hidden files and folders	~
_ 💽 🤅	Show hidden files and folders	
Hide	extensions for known file types	
Hide	protected operating system files (Recommended)	
V Bem	ember each folder's view settings	
Rest	ore previous folder windows at logon	_
🔽 Show	w Control Panel in My Computer	
🗹 Shov	w encrypted or compressed NTFS files in color	
Shou	w pop-up description for folder and desktop items	
Use	simple file sharing (Hecommended)	~
	Restore Defau	ılts



3. Ensure that the **Use simple file sharing** check box is not selected.

If an account, for example, ASP.NET, is not visible in the **Security** tab, you must make it visible.

Making an Account Visible

To make an account visible in the Security tab:

- 1. In the **Properties** dialog box, click the **Security** tab.
- 2. In the **Security** tab, click Add.
- 3. In the **Select Users, Computers, or Groups** dialog box, in the **From this location** field, ensure that the local computer is selected.
- 4. In the Enter the object names to select field, enter the name of the account ASPNET, NETWORK SERVICE or IUSR_<machinename> and click Check Names.

Alternatively, you can click Advanced and then click Find Now and select the account you want to add.



3.4 Quick Minimal Installation

The easiest way to configure in a well protected environment such as a multi-firewalled developer workstation is described below. The complete instructions are given for SQL Server 2005 Express Edition data storage type.

This section is a description of the easiest way to install and configure Sitecore on a developer workstation in a well protected environment.

- 1. Install Microsoft .NET Framework V3.5 and SQL Server 2005 Express Edition.
- 2. Go to Microsoft Update and install the latest service packs and security updates for Microsoft Windows, IIS, ASP.NET, and SQL Server 2005 Express Edition.

Unzip the installation archive to a folder in your file system, for example: D:\Sitecore\.

By default, you will create the following set of folders:

- o D:\Sitecore\Data
- o D:\Sitecore\Databases
- o D:\Sitecore\Website
- 3. Place the appropriate license.xml file in the /Website/data/ folder. In this example the folder is D:\Sitecore\Website\data. The location of the license file is determined by the <setting name="LicenseFile"... setting in web.config file.
- 4. Grant the ASP.NET and IUSR_* users full control of D:\Sitecore\ and all its subfolders.
- 5. Grant the NETWORK SERVICE user full control of D:\Sitecore\Databases folder.
- 6. In /Website/App Config/ folder, locate the ConnectionStrings.config file.
- 7. Open the ConnectionStrings.config file and enter the appropriate values in a line for each database, for example:

```
<add name="core" connectionString="user
id=_sql_server_user_;password=_user_password_;Data
Source= sqlserver ;Database= core database name " />
```

- 8. Open the **Internet Information Services** window, right-click the default Web site and click Properties.
- 9. In the **Default Web Site Properties** window, click the **Home Directory** tab and set the home directory of the default Web site in IIS to the new document root.
- 10. Click the **ASP.NET** tab and ensure that .NET 2.0 is selected.
- 11. Add Sitecore CMS host to Internet Explorer's Trusted Sites.
- 12. Start the browser (Internet Explorer 7 or higher preferably) and enter the following address in the address bar:

http://localhost/sitecore



You should see the Sitecore login screen:

http://localhost/sitecore/log	in/		👻 🍫 🗙 Goog	gle
🔹 🔾 Detailed Inst 🔾 In	stalling Site 🔾 Configuring	P 🔾 Creating a W 👔	Sitecore ×] 🔹 🖶 🔹 🔂 Page 🔹 🍈 Tg
🥥 sıtecore®				
ogin Advanced				
We	come to Si	tecore	License Holder: Siteci License ID: 20071105	ore Ukraine 163722
liser n	ame: Admin		Sitecore.NET 6.0.0 (n	ev. 080623)
Passv	vord:			
	Login			
Fo	rgot Your Password? Change	Password		
C,	alact I Isar Into	rface	Browser Note	es
50	elect User Trite	liace	You are using Interr	net Explorer 7.
🖳 De	esktop 🚺 C	ontent Editor	browser.	I user interfaces for this
Pa	ige Editor	review		
🦢 w	orkbox 📫 D	eveloper Center		
Brows	er Display Mode: Normal	~		
Client Lar	nguage: Default	*		
			🗸 Tru	sted sites 🔍 🔍 100'

3.4.1 Detailed Installation

To install an instance of Sitecore:

- 1. Select a parent directory path for the project such as C:\InetPub and an identifier such as ProjectName
- 2. Extract the .zip archive to create:

```
C:\InetPub\ProjectName\Website
C:\InetPub\ProjectName\Data
```

for Microsoft SQL Server 2005 Express Edition

Extract C:\InetPub\ProjectName\Databases

- 3. Set permissions as described in Section 3.6, 'Configuring Folder Permissions'.
- 4. Copy a valid license file to the Data folder.
- 5. If you are running SQL Server, edit the ConnectionStrings.config file located in the /Website/App_Config/ folder. Enter the appropriate values in a line for each database, for instance:

```
<add name="core" connectionString="user
id=_sql_server_user_;password=_user_password_;Data
Source= sqlserver ;Database= core database name " />
```

6. If you are running SQLite:

Change the name of the web.config file to web.config.default and web.config.sqlite to web.config.

Edit the ConnectionStringsSQLite.config file located in /Website/App_Config/ folder. Enter the appropriate values in a line for each database.

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



7. In the web.config file, edit the dataFolder attribute of the /configuration/sitecore/sc.variable node and enter the full path to the Data folder excluding the trailing slash, for instance:

<sc.variable name="dataFolder" value="D:\Sitecore\Data" />

- 8. In the IIS, set the home directory of the appropriate Web site to *Website*.
- 9. In the **ASP.NET** tab, ensure that .NET 3.5 is selected.
- 10. Add Sitecore CMS host to Internet Explorer's Trusted Sites.
- 11. Start the browser (Internet Explorer 7 or later) and enter the following address in the address bar:

http://localhost/sitecore

You should now see the Sitecore login screen:

e http://localhost/sitecore/login/	Google
🛛 🔹 🗿 Detailed Inst 🕜 Installing Site 闷 Configuring P 🕜 Creating a W 🧭 Site	core 🗙 📄 🏠 + 🔝 - 🖶 + 🔂 Bage + 🎯 Tgi
🗿 sitecore	
	License Holder: Sitecore Ukraine
welcome to Silecore	License ID: 20071105163722
User name: Admin	
Password:	
Login	
Forgot Your Password? Change Password	
	Proweer Notes
Select User Interface	You are using Internet Explorer 7.
Desktop	Sitecore supports all user interfaces for this browser.
Page Editor Preview	
🥦 Workbox 😽 Developer Center	
Derume Diseleu Meder Normal	
Browser Display Hode.	
Client Language: Default	
	🗸 Trusted sites 🔍 100%

The default password for the Admin user is "b".



3.5 Configuring the IIS

The following sections describe how to configure different versions of IIS (versions 5,6 and 7).

3.5.1 IIS 5,6 (Windows XP, Windows 2000, Windows 2003)

Complete the following steps to configure an existing site or create a new Web site in IIS (Windows 2003 only).

Note

Do not create a virtual directory for Sitecore as the product cannot operate from a virtual directory.

1. Open the Internet Information Services (IIS) Manager.

If you are running Windows 2000 or Windows XP, click Control Panel, Administrative tools, Internet Information Services to open the Microsoft Management Console for the IIS.

If you are running Windows 2003, click Control Panel, Administrative tools, Internet Information Services (IIS) Manager to open the Microsoft Management Console for the IIS.

- 2. In the Internet Information Services window, expand Web Sites
 - Windows XP: Right-click Default Web Site and click Properties.
 - o Windows 2000 Server, Windows 2003 Server: Create a new Web site.
- 3. In **Home Directory** tab, in the **Local path** field, enter or browse to the WebSite folder, for instance C:\InetPub\ProjectName\WebSite.
- 4. In the Application Protection field select Medium (Pooled).

Default Web Site Prope	erties	? 🛛				
HTTP Headers	Custom Errors A	SP.NET Server Extensions				
Web Site ISAPI Filter	rs Home Directory	Documents Directory Security				
When connecting to this	s resource, the content sh	ould come from:				
●A	directory located on this c	computer				
○A	A share located on another computer					
O A	redirection to a <u>U</u> RL					
Lo <u>c</u> al Path: D: ¹	Sitecore Intranet/WebSite	e Br <u>o</u> wse				
Script source access Read Write Directory browsing	✓ Log : ✓ Inde:	visits x this resource				
Application name:	Default Application	Bemove				
Starting point:	<default site="" web=""></default>	Configuration				
Execute Permissions:	Scripts only					
Application Protection:	Medium (Pooled)	Unload				
	OK Cano	cel Apply Help				

Do not select High (Isolated) as this will cause excessive caching.



5. In the Internet Information Services window, under Default Web Site, select the /data folder and click Properties to open the **Properties** window for this folder:

ata Properti	es				? 🔀
Directory Doc	uments	Directory Security	HTTP Headers	Custom Errors	ASP.NET
Anonymous	access a	and authentication c	ontrol		
\$	Enable authent	anonymous access ication methods for	and edit the this resource.	Edit	
- IP address a	and doma	in name restrictions			
8	Grant o IP addr	r deny access to thi esses or internet dor	s resource using main names.		
				E dit	
- Secure com	municatio	202			
	Require	secure communica	tions and	Conver Cortifica	
	enable resourc	client certificates wł e is accessed.	nen this	Server Certifica	
				View Certifical	e
				E dit	
		ОК	Cancel	Apply	Help
	_			_	

6. In the **Directory Security** tab, in the **Anonymous access and authentication control** section, click Edit. The Authentication Methods window will appear.

umenticati	on Methods 🛛 🔀
Anonymo	ous access
No user nam	e/password required to access this resource.
Account use	ed for anonymous access:
User name:	IUSR_LTMSIN Browse
Password:	•••••
	Allow IIS to control password
- and - acc	onymous access is disabled, or cess is restricted using NTFS access control lists thentication for Windows domain servers
Basic aut	thentication (password is sent in clear text)
Basic aut	thentication (password is sent in clear text) main:
Basic aut Default do Realm:	theriteation (password is sent in clear text) main: dk.sitecore.net Select
Basic aut Default do Realm:	dk.sitecore.net

- 7. In the **Authentication Methods** dialog box, ensure that the **Anonymous access** check box is not checked.
- 8. Repeat this procedure for the following folders and files: /sitecore/admin /sitecore/debug
- 9. Restart the IIS.

If you are running Windows 2003:

1. Open the **Properties** dialog box for the appropriate Application Pool, in the **Performance** tab and ensure that the Maximum number of worker processes is ALWAYS "1

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



On multiple processor servers, this value may automatically be set higher than 1 when you install the OS/IIS.

On these servers, it is therefore especially important to check this setting as it will likely be higher than "1".

2. Restart IIS.

3.5.2 IIS 7, IIS 7.5 (Windows 2008, Windows Vista)

Complete the following steps to configure an existing site or create a new Web site in IIS 7 (Windows 2008 and Windows Vista only). Instructions for IIS 7.5 are the same.

Note

Do not create a virtual directory for Sitecore as the product cannot operate from a virtual directory.

- Open the Internet Information Services (IIS 7) Manager. Click Control Panel » Administrative tools » Internet Information Services (IIS) Manager to open the Microsoft Management Console for the IIS.
- 4. Create a new or open an existing application pool. To add a new one, click to the Application Pool node in the tree and click "Add Application Poll" in the Actions panel:

🕒 🕥 🛛 🚺 🕨 AT 🕨 Applic	ation Pools					🖸 🖂 🚰 I 🕜 ·
<u>File V</u> iew <u>H</u> elp						
onnections	Application This page lets you view, server. Application pools one or more applications applications. Filter: Name A ASP.NET 1.1 ASP.NET 2.0 Classic .NET App Classic .NET App Classic .NET App Classic .NET App Classic .NET App	and manage are associations and provide and provide Started Started Started Started Started Started	S the list of applia ted with worker te isolation amor Solor Sho NET Frame v1.1 v2.0 v2.0 v2.0 v2.0	cation pools on the processes, contain ng different w All	Ac	Add Application Pool Set Application Pool Defaults Application Pool Tasks Start Stop Recycle Edit Application Pool Basic Settings Recycling Advanced Settings
	Crestone ConfaultAppPool Sitecore6.0AppPool TestAppPool Features View	Started Started Started Started	v2.0 v2.0 v2.0 v2.0	Classic Classic Classic Integrated	×	Remove View Applications Help Online Help

The "Add Application Pool" dialog window will appear.



 In the "Add Application Pool" dialog window, enter the pool name in the Name field and set the ".NET Framework version" to ".Net Framework v2.0.XXXXX" and "Managed pipeline mode" to "Classic". Click OK.

Name: Sitecore6.0AppPool	
Sitecore6.0AppPool	
	-
.NET <u>F</u> ramework version:	
.NET Framework v2.0.50727]
Managed pipeline mode:	
Classic	
Start application pool immediately	
OK Cancel	

Note

It is also possible to set "Managed pipeline mode" value to "Integrated".

Please be aware that Sitecore CMS 6 experiences several limitations running in IIS 7 Integrated application pool mode due to its nature and specific behavior. For the full list of known issues, please see the following URL:

http://sdn.sitecore.net/Products/Sitecore%20V5/Sitecore%20CMS%206/ReleaseNotes/KnownIss ues%20Recommended/IIS%20in%20Integrated%20Pipeline%20mode.aspx

6. Click "Advanced Settings" on the Actions panel.

Ensure that the Maximum number of worker processes is "1". On multiple processor servers, "Maximum Worker Processes" value may automatically be set higher than 1 when you install the OS/IIS.



-	(General)	
	.NET Framework Version	v2.0
	Managed Pipeline Mode	Classic
	Name	ASP.NET 2.0
	Queue Length	1000
	Start Automatically	True
-	CPU	
	Limit	0
	Limit Action	NoAction
	Limit Interval (minutes)	5
	Processor Affinity Enabled	False
	Processor Affinity Mask	4294967295
-	Process Model	
	Identity	NetworkService
	Idle Time-out (minutes)	20
	Load User Profile	False
	Maximum Worker Processes	1
	Ping Enabled	False
	Ping Maximum Response Time (second	90
	Ping Period (seconds)	30
	Shutdown Time Limit (seconds)	90
	Startup Time Limit (seconds)	90
⊐	Process Ornhaning	` _
N. [r	ame name] The application pool name is the u	unique identifier for the application pool.
		OK Cancel



7. In the Connections panel, expand Web Sites and create a new Web site. Right-click on the created site and click "Manage Web Site/Advanced Settings".

In the **Physical path** field, enter or browse to the WebSite folder of your Sitecore installation, for instance C:\InetPub\ProjectName\WebSite. In the **Application Pool** field enter or browse the created application pool.

(General)	
Application Pool	Sitecore6.0AppPool
Bindings	http:*:80:test
ID	2
Name	test
Physical Path	C:\InetPub\ProjectName\WebSite
Physical Path Credentials	
Physical Path Credentials Logon Type	ClearText
Start Automatically	False
3 Behavior	
E Connection Limits	
Enabled Protocols	http
(General)	

8. Browse your Sitecore site and select the /data folder and click "Authentication" icon to configure the authentication settings for this folder.

le <u>V</u> iew <u>H</u> elp		
AT (AT\at)	Group by: Area	Actions Explore Edit Permissions
Sites Default Web Site Default Web Site ReSharper, TempSo Resharper	SMTP E-mail IIS ASP Authentication Compression Compression Document Document Document Browing Error Pages Handing Handing Handing Handing Compression Document Browing Handing	Manage Folder Browse Folder Browse #443 (https) Browse #443 (https) Help Online Help
► International	Features View	

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



9. On the Authentication page, ensure that the Anonymous Authentication is disabled.



- 10. Repeat steps 6-7 for the following folders: /sitecore/admin /sitecore/debug
- 11. Restart the IIS.



3.6 Configuring Folder Permissions

Certain types of browser requests (generally for directory lookups and static resources) are executed with the permissions of the internet impersonation as specified under *"Authentication and access control"* on the **Directory Security** tab in the IIS management console. The default name for this account is IUSR_* where the star represents the machine name.

Requests for ASP.NET resources are executed with the permissions of ASP.NET. The default ASP.NET account on Windows XP is a local user named ASP.NET, which will also be used on Windows 2003 under specific conditions such as if "Run WWW service in IIS 5.0 isolation mode" is selected on the Services tab of the Web Sites container in the IIS management console. The default ASP.NET account on Windows 2003 is the local user named NETWORK SERVICE.

In general, if permissions for operating system users and roles are not specified in this document, they should not be defined on the file system, although certain use cases will require expanded permissions.

3.6.1 Root Folder Permissions

The IUSR_* user must have Read and Execute access to the Website folder and its descendants.

The ASP.NET user must have rights to List Folder Contents on all directories above WebSite; for instance for C:\InetPub\ProjectName permissions may need to be opened on C:\InetPub and any other folders above ProjectName.

If anonymous access to the site has been allowed in IIS (IIS management console, in the **Properties** dialog box, on the **Directory Security** tab, in the **Authentication and access control** section) and the impersonate attribute of the /configuration/system.web/identity element in web.config file is set to true (<identity impersonate="true" />), the IUSR_* must have the List Folder Contents right instead of the ASP.NET user.

3.6.2 Specific Folder Permissions

In non-production environments, it's generally easiest to grant the ASP.NET user Full Control of the *Website* and *Data* folders as well as all their descendants.

We recommend that you restrict permissions even further in production environments. The ASP.NET user must have Read and Write access to the following resources:

Directory	Situations in which ASP.NET and/or IUSR_* Requires Read and Write Control
/data (or other directory as defined by the <i>dataFolder</i> attribute)	All Sitecore environments.
/data/indexes	All Sitecore environments. Important: ASP.NET and IUSR_* users require the modify access rights to this folder in order to maintain the search indexes.
/layouts	If Developer Center will be used to create and modify layouts and sublayouts.
/sitecore/shell/Applications/debug	All Sitecore environments against which CMS users authenticate (generally everything except content delivery/runtime servers); create this directory if it does not exist.

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



Directory	Situations in which ASP.NET and/or IUSR_* Requires Read and Write Control
/sitecore/shell/Controls/debug	All Sitecore environments against which CMS users authenticate (generally everything except content delivery/runtime servers); create this directory if it does not exist.
/temp	All Sitecore environments.
/upload	Sitecore environments to which users interactively upload media.
/xsl	If Developer Center will be used to create and modify XSL renderings.
/App_Data	All Sitecore environments in which this folder is used. Note: IUSR_* user requires Read and Write permissions to this folder as well.
/audit /logs /viewstate /mediacache /diagnostics	Both ASP.NET and IUSR_* users require modify permissions to these folders.

For custom XML controls, all directories specified in the ControlSources section of the web.config file must contain a debug folder with Read/Write access by the ASP.NET user.

NETWORK SERVICE user must have read and write access to the folder where the SQL databases are stored.

3.6.3 Deny Execute Permissions on the Upload Folder

You should set the Execute Permission to None in IIS in order to prevent the execution of an uploaded file on the server side when a user attempts to download it. Select *Properties* for the upload folder in IIS:

õ	The designated directory A share located on another computer	
o	A redirection to a <u>U</u> RL	
Lo <u>c</u> al Path: \u	pload	
 ☐ Script source acce: ☑ <u>R</u>ead ☑ <u>W</u>rite ☐ Directory browsing 	ss 🔽 Log <u>v</u> isits 🔽 Index this resource	
Application Settings		
Application name:	Default Application	Cr <u>e</u> ate
Starting point:	<sdn.sitecore.net></sdn.sitecore.net>	Configuration
Execute Permissions:	None	Comgoratoriti
	Medium (Pooled)	Unjoad
Application Protection:		

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



3.6.4 Grant Access to the Globalization Folder

To make the registration of custom languages work correctly you should:

- Grant the ASP.NET user 'Full Control' permission for the <code>%WINDIR%\Globalization</code> folder. If you fail to do this, custom languages cannot be registered correctly with .NET Framework and Sitecore CMS may work very slowly.
- If you are running Window Server 2003, you must grant access to the "NETWORK SERVICE" account, not the "ASP.NET" account (unless you use impersonation).
- You might also need to grant access to the following registry key to make registration of custom languages work correctly:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\ControlNls

3.6.5 Grant Access to the Temporary Folders

Grant the IUSR_machinename account full control access to the C:\windows\microsoft.net\framework\\Temporary ASP.NET Files folder.

You must also grant the ASP.NET (NETWORK SERVICE in Windows 2003) user write access rights to the windows temp folder (typically \temp or \windows\temp) and to the temp folder under the "Documents and Settings" folder (either \documents and settings\aspnet\temp or \Documents and Settings\ ServerName \ASPNET\Local settings\Temp).



3.7 Microsoft SQL Server Configuration

When you install Microsoft SQL Server, you must select **Mixed Mode** authentication (Windows Authentication and SQL Server Authentication).

3.7.1 Visual Studio 2005 and SQL Server Express Edition

When you install Visual Studio 2005, it may install some components of SQL Server 2005 Express. Furthermore, it may also configure the database to only use Windows authentication rather than mixed mode authentication and it may not install SQL Server Management Studio Express.

To update an instance of SQL Server 2005 Express that has been installed with Visual Studio 2005:

- 1. Log in to Windows as a user with administrative rights.
- 2. Install SQL Server Management Studio Express.
- 3. Click Start, All Program, Microsoft SQL Server 2005, SQL Server Management Studio Express.
- 4. In the **Connect to Server** dialog box, in the **Authentication** field, select *Windows Authentication*.
- 5. In the **SQL Server Management Studio Express** window, in the **Object Explorer** pane, expand the Security folder and expand the Logins folder.
- 6. Right-click sa and click Properties to open the Login Properties window
- 7. In the General page, enter and confirm the password for the security administrator.
- 8. In the Status page, under Login, select the Enabled check box and click OK.
- 9. In the **SQL Server Management Studio Express** window, right-click the database server (<*HOSTNAME*>*\SQLEXPRESS*) at the top of **Object Explorer** and select Properties.
- 10. In the Server Properties window, select the Security page and in the Server authentication section, select SQL Server and Windows Authentication mode and then click OK.
- 11. Close Microsoft SQL Server Management Studio Express.
- 12. To restart SQL Server 2005 Express Edition, enter the following in a command prompt:

net stop "Sql Server (SQLEXPRESS)"

net start "Sql Server (SQLEXPRESS)"

- 13. Start Microsoft SQL Server Management Studio Express.
- 14. Log in using **SQL Server Authentication** with the username *sa* and password you entered in step 6.

For information about an alternative method of allowing SQL Server Authentication, see <u>http://support.microsoft.com/kb/322336</u>.

3.7.2 Creating a Database Account for Sitecore CMS Databases on SQL Server 2005

This section describes how to create a database account for Sitecore databases under SQL Server 2005 with the minimum required permissions.

- 1. Start SQL Server Management Studio Express.
- 2. Make sure the Sitecore databases are attached.
- 3. In SQL Server Management Studio Express, in the **Object Explorer** pane, expand the Security folder.

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



4. Right-click the Logins folder and click New Login to create a new login.

LeoBut Liew				
select a page 😤 General	🖾 Script 🝷 🚺 Help			
∰ Server Roles ∰ User Mapping ∰ Securables ∰ Status	Login game:	SC used	Sgatch	
Connection Server ALEXXISOLEXPRESS Connection Ta View connection properties Progress	Mapped to asymmetric key Key name: Default gatabase: Default (gnguage:	master cdelaut>	×	
		ſ	OK Cancel	

- 5. In the Login New window, select the General page and specify the login name.
- 6. Select the **SQL Server authentication** option and clear the **User must change password at next login** checkbox (this option is not supported on some Windows operating systems).
- 7. Select the **User Mapping** page and in the **User mapped to this login** field, select the Sitecore databases.
- 8. In the **Database role membership for** field, select **db_datareader** and **db_datawriter** to assign the new user these roles for all the Sitecore databases.

	GP	Bur	
P General	2 scubi • 🔽 Helb		
Server Roles	Users ma	apped to this login:	
Securables	Map	Database	
🚰 Status		C-VINETPUB/WWWR00T/SITECORE/SC/TEST INSTALL/DATABASES/SC53ARCH	
		C:VNETPUB\WWWR00T\SITECORE\SC TEST INSTALL\DATABASES\SC53CORE	
		C:VNETPUB\WWWROOT\SITECORE\SC TEST INSTALL\DATABASES\SC53EXTR	
		C:VNETPUB\WWWROOT\SITECORE\SC.TEST.INSTALL\DATABASES\SC53MAST	
		C:VNETPUB\WWWR00T\SITECORE\SCTEST INSTALL\DATABASES\SC53RECYL	
		C-VINETPUB\WWWRDDT\SITECOBE\SC.TEST.INSTALL\DATABASES\SC53SECUL	
		C:\NETPUB\\WWWROOT\SITECORE\SCTESTINSTALL\DATABASES\SC53WEB	
		C:\NETPUB\\WWROOT\SITECORE\SC5.3 PBICELIST\APP_DATA\SC53ABCHIVE	
	E E	C-VINETPUB\WWWR00T\SITECORE\SC53PRICELIST\APP_DATA\SC53CORE_D	
	Guest Database	t account enabled for: C.VINETPUBWWWRDOT\SITECORE\SC.TEST e role membership for: C.VINETPUB\WWWRDOT\SITECORE\SC.TEST	
	Guer Database	t account enabled for: C-UNETPUB/W/W/R00T/SITECORE/SC TEST e role membership for: C-UNETPUB/w/w/R00T/SITECORE/SC TEST	
Connection	Guer Database	t account enabled for: C-UNETPUB1/W/WR00T/SITECORE/SC TEST e role membership for: C-UNETPUB1/w/wR00T/SITECORE/SC TEST ccessadmin	
Connection Server:	Database	t account enabled for: C-VINETPUB\WWWR00T\SITECORE\SC-TEST e role membership for: C-VINETPUB\WWWR00T\SITECORE\SC-TEST ccessedmin ackupopedor	
ionnection Server: ALEXX/SQLEXPRESS	Guer Database db_s db_d U db_d	t account enabled for: C.VINETPUB/W/WR00T/SITECORE/SC.TEST e role membership for: C.VINETPUB/W/WR00T/SITECORE/SC.TEST cocessidnin sockuppendor lobarendor	
Connection Server: ALEXKISOLEXPRESS Connection:	C Guer Database db_a db_b V db_d	t account enabled for: C-UNETPUB\WWWR00T\SITECORE\SC.TEST e role membership for: C-UNETPUB\WWWR00T\SITECORE\SC.TEST cccessedmin acturpoperation saleraber alsowiter	
Connection Serve: ALEXXSOLEXPRESS Connection: 10	Contractions of the second sec	t account enabled for: C-UNETPUB\WWWR00T\SITECORE\SC-TEST e role membership for: C-UNETPUB\WWWR00T\SITECORE\SC-TEST cccessadmin achuroperator blaewader subarander	
onnection Server: ALDX/SDLEXPRESS Connection: 30 Yiew: connection properties	Contractions of the second sec	t account enabled for: C-VINETPUB/W/W/R00TI/SITECORE/SC TEST e role membership for: C-VINETPUB/W/W/R00TI/SITECORE/SC TEST cocessidnin sclusometer blaneader eng/datwarder grigdatwarder	
Connection Server: ALEXXSQLEXPRESS Connection To View connection properties	Contrabase Contra	t account enabled for: C-VINETPUB/WW/WROOT/SITECORE/SC TEST e role membership for: C-VINETPUB/WW/WROOT/SITECORE/SC TEST cccessadmin acturyoprention salerwater salerwater enyddawnter wreat ecultwaterin salerwater ecultwaterin salerwater ecultwaterin salerwater ecultwaterin salerwater ecultwaterin salerwater ecultwaterin salerwater salerwater ecultwaterin salerwater	
Connection Serve: ALEX/SQLEX/PRESS Connection: sa Yiew connection properties Yogress	C Guest Databass db.a db.d db.d db.d db.d db.d db.d db.d	t account enabled for: C-UNETPUB\WWWR00T\SITECORE\SC.TEST e role membership for: C-UNETPUB\WWWR00T\SITECORE\SC.TEST cccessadnin acturgenerator salewader enydatwrater enydatwrater word ccutiyadnin c	
Connection Serve: ALEXXSQLEXPRESS Connection a View connection properties View connection properties View connection properties View connection properties	Guest Database db.s db.d db.d db.d db.d db.d db.d db.d	t account enabled for: C-UNETPUB\WWWROOT\SITECORE\SC.TEST e role membership for: C-UNETPUB\WWWROOT\SITECORE\SC.TEST cccessadnin actuscporevior saleracefer astervater engodatwater engodatwater engodatwater engodatwater escultyadmin c	
Connection Server ALEXX\SQLEXPRESS Connection a Viour connection properties Viouress Effor occurred	Gued Database db.a db.d db.d db.d db.d db.d db.d db.d	t account enabled for: C-VINETPUB/WW/WROOT/SITECORE/SC TEST e role membership for: C-VINETPUB/WW/WROOT/SITECORE/SC TEST cccessadori adawater adawater enydakaoder enydakaoder enydakaoder enydakaoder or	

- 9. Ensure that the **public** checkbox is also selected.
- 10. Click OK to create the user.

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



Granting Execute Rights to Stored Procedures

To grant execute rights to stored procedures:

- 1. In the SQL Server Management Studio Express window, expand Databases.
- 2. Right-click a Sitecore database and click Properties.



3. In the **Database Properties** window, select the **Permissions** page.

elect a page P General	Script + 🚺 Help					
Files Filegroups Potions Permissions Extended Properties	Server name: View server permissions Database name:	ALEX C:NN	K\SQLEXPRESS ETPUB\WWWROOT	r\sitecore\sc	TEST INSTAL	L\DA
	Name			Tu	0.0	
			iy Ile	po v		
	A sch			Usi Usi	er er	
	¢					>
	C Effective Pe	missions		Add	Bem	Dive
Connection	Effective Per Explicit germissions for St	missions Cluser:		Add	Berna	ove
ionnection	Effective Per Explicit germission Permission	missions Cluser: Grantor	Grant	Add With Grant		ove
onnection Server: ALEXXXSQLEXPRESS	Elfective Per Explicit gernissions for SI Permission Create XML schema	missions Duser: Grantor dbo	Grant	Add	Deny	DVe
onnection Seve: ALEXXSQLEXPRESS Connection:	Elfective Per Explicit permission Permission Create XML schema Delete	missions Duser: Grantor dbo dbo	Grant	Add	Deny	Dve
onnection Sever ALEXISOLEXPRESS Connection: 30	Effective Pe Explicit gemissions for SI Permission Create XML schema Delete Execute	missions Duser: Grantor dbo dbo dbo	Giant	Add	Deny	DVe
Connection Serve: ALEXASQLEXPRESS Connection To	Effective Per Explicit gemissions for SI Permission Create XML schema Delete Execute Inset	missions Cuser dbo dbo dbo dbo	Giant	Add	Deny	DVe
Connection Serve: ALEXASOLEXPRESS Connection: 58 Streve connection properties	Effective Per Explicit gemissions for SI Permission Create XML schema Delete Execute Inset References	missions Cuser Grantor dbo dbo dbo dbo	Grant	Add	Deny	ove
onnectax Seve: ALEXASOLEXPRESS Connection: 18 Wiew connection properties View connection properties	Effective Per Explicit germissions for SI Permission Create XML schema Delate Execute Inset References Select	missions Cuser Grantor dbo dbo dbo dbo dbo	Grant	With Grant	Deny	ove
Connection Serve: ALEXINSULEXPRESS Connection as View connection properties View connection properties	Effective Per Effective Per Explicit germissions for S1 Permission Create XML schema Delete Execute Inset References Select Show plan	missions Cuser: Grantor dbo dbo dbo dbo dbo dbo dbo	Grant	Add	Deny	ove
Connection Server: ALEXASQUEXPRESS Connection: 30 31 32 Yieur connection properties Yogress Ready	Explicit permissions for SI Explicit permissions for SI Permission Create XML schema Delate Execute Inset References Select Show plan Subscribe query notifi	missions Grantor dbo dbo dbo dbo dbo dbo dbo dbo	Giant	Àdd	Deny	ove

4. In the **Users or roles** field, select the user and in the **Explicit permissions for** field, in the **Grant** column give the user *Execute* permission.

Repeat this procedure for the other Sitecore CMS databases.

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



3.8 Creating a Web Project in Visual Studio

Sitecore extension projects should use the ASP.NET Web Application Project, supported by Visual Studio 2005 SP1 and Visual Studio 2008.

To setup a Web Project:

- 1. Start Visual Studio.
- 2. In Visual Studio, click File, New, Project.
- 3. In the **New Project** window, select *ASP.NET Web Application* and provide a name, for example: Sample Project.

roject types:	Templates:
 ♥ Visual C# ♥ Windows ⊕ Smart Device Database Starter Kits ₩eb ♥ Visual C++ ♥ Other Project Types 	Visual Studio installed templates ASP.NET Web ASP.NET Web Service Ap My Templates Search Online Templates
A project for creating an applicat	on with a Web user interface
ame: Sample Proje	ct
ocation: C:\Inetpub\	www.root\Sitecore
olution Name: Sample Proje	ct Create directory for solution

When you click OK, Visual Studio creates a project folder with the name you specified and in the folder it creates some related files as well as some additional files that will not be used.

- 4. Close Visual Studio.
- 5. Open Windows Explorer and locate the project folder this will probably be in a folder under My Documents\Visual Studio 2005\Projects.
- 6. Move or copy the Properties folder, and the *.csproj, and *.csproj.user files to the Sitecore webroot. You can delete the Visual Studio project folder now if you wish.
- 7. In the Sitecore webroot, double-click the *.csproj file to open the project in Visual Studio.
- 8. In Visual Studio, in Solution Explorer, right-click the default.aspx page and click Exclude From Project.
- 9. In Solution Explorer, right-click References and click Add Reference.
- 10. Click the Browse tab and select the Sitecore.Kernel.dll file, and then click OK.
- 11. In Solution Explorer, select the Sitecore.Kernel.dll file and set the Copy Local property to false.

To edit files in Visual Studio, you must make them visible and include them in the project.



To make the files visible:

1. In the Solution Explorer, click Show All Files.



- 2. You must now include the files you want to edit. For example, right-click the XSL folder and click Include in Project.
- 3. Finally, double click the files themselves to edit them.
- 4. Close Visual Studio.

When you are prompted, save the specified items in the default location. In the future, you can open this project by opening the corresponding *.sln file in the Sitecore CMS webroot.

Related reading:

- <u>http://msdn2.microsoft.com/en-us/asp.net/aa336618.aspx</u>
- <u>http://webproject.scottgu.com/</u>
- <u>http://webproject.scottgu.com/CSharp/Default.aspx</u>
- <u>http://webproject.scottgu.com/CSharp/HelloWorld/Helloworld.aspx</u>

3.9 Post-Installation Steps

This section describes the steps that we recommended you to take after the Sitecore CMS webroot and databases have been installed.

3.9.1 Rebuild the Search Index

You should rebuild the Search Index for the core database and the Quick search index.

To rebuild the Search Index, Log in to the Sitecore desktop and click *Control Panel » Database » Rebuild the Search Index.*

🖉 Sitecore Webpage Dialog 🛛 🔀
Select Search Index Select the search index that you want to rebuild. You can rebuild more than one index at a time. Click Rebuild to rebuild the search index.
Rebuild Search Index Image: Core Image: master Image: Quick search index
< Back Rebuild > Cancel

3.9.2 Making Your Computer More Secure

This section will help you to make your computer more secure against known attacks.

Disable all unused extensions in the IIS

We recommend that you disable all unused extensions in the IIS.

For a Sitecore solution, you only need the .NET and perhaps ASP extensions. You can therefore remove .idc, .shtm, and so on.

To remove these extensions:

- 1. Open the Internet Information Services window.
- 2. Right-click the Sitecore Web site and click Properties, Home Directory, Configuration.



3. In the **Application Configuration** window, select the extensions you want to remove and click Remove.

Extern Executable Path Vertisa .asa C:\WiNDOWS\System32\inetsr\asp GET J. .asax c:\Windows\microsoft.net\framework\ GET J. .ascx c:\Windows\microsoft.net\framework\ GET J. .ashx c:\Windows\microsoft.net\framework\ GET J. .ashx c:\Windows\microsoft.net\framework\ GET J.	IEA.
.asa C:\WiND0WS\System32\inetsr\asp. GET J. .asax c:\windows\microsoft.net\framework\ GET J. .ascx c:\windows\microsoft.net\framework\ GET J. .ashx c:\windows\microsoft.net\framework\ GET J.	IEA. IEA
asax c:\windows\microsoft.net\framework\ GET.H ascx c:\windows\microsoft.net\framework\ GET.H ashx c:\windows\microsoft.net\framework\ GET.H	IEA 👘
ascx c:\windows\microsoft.net\framework\ GET,F .ashx c:\windows\microsoft.net\framework\ GET,F .asmx c:\windows\microsoft.net\framework\ GET.F	
.ashx c:\windows\microsoft.net\framework\ GET.F	IEA.
asmy c:\windows\microsoft.net\framework\ GET_H	IEA.
denia c. mindorre inicideente indirection c de ru	IEA.
.asp C:\WINDOWS\System32\inetsrv\asp GET,F	IEA.
.aspx c:\windows\microsoft.net\framework\ GET,H	IEA.
.axd c:\windows\microsoft.net\framework\ GET,F	IEA.
.cdx C:\WINDOWS\System32\inetsrv\asp GET,F	IEA.
.cer C:\WINDOWS\System32\inetsrv\asp GET,F	IEA.
.config c:\windows\microsoft.net\framework\ GET,H	IEA. 🤜
Add <u>E</u> dit <u>R</u> emove	



3.10 Uninstalling Sitecore

Before uninstalling Sitecore, delete the IIS Web site or update it to reference a different directory, or stop IIS by executing the following command:

net stop w3svc.

Stop the SQL Server process:

- for SQL Server Express: net stop "sql server (sqlexpress)"
- for every other edition of SQL Server: net stop "sql server (mssqlserver)"

Remove the Sitecore file system.

Remove any databases on remote or local servers that are used by this instance of Sitecore.

If you used the installation program to install Sitecore, use the Add or Remove Programs facility in Windows Control Panel to uninstall it.

In the Add or Remove Programs window, locate the appropriate entry and click Remove:



Restart the SQL Server and IIS services as appropriate.



Chapter 4

Using the Sitecore Installation Program

This chapter describes the process of Sitecore CMS installation using the executable installation program.

You can download the Sitecore Installation Program from the <u>Sitecore CMS</u> <u>Downloads page</u>.

This chapter contains the following sections:

- Windows Vista Pre-installation Steps
- Installation Process
- Important Notes
- Troubleshooting



4.1 Windows Vista Pre-installation Steps

Before you can install Sitecore on Windows Vista you must ensure that certain settings are configured correctly.

You must ensure that:

- UAC (User Account Control) configuration security policy *Detect application installations and prompt for elevation* is enabled.
- The IIS 6 configuration compatibility features are enabled.

4.1.1 The UAC (User Account Control) Configuration

To run the installation program on Vista, the UAC (User Account Control) configuration security policy *Detect application installations and prompt for elevation* must be enabled (this setting is enabled by default).

To check if this setting has been changed on your machine:

- 1. Log in to Vista as an administrator.
- 2. Press WIN + R to open the **Run** window.
- 3. In the **Run** window, enter *secpol.msc* and press Enter.

The UAC (User Account Control) requests your permission to continue.

User Account	Control
If you starte	d this action, continue. Microsoft Management Console Microsoft Windows
🕑 Details	Continue Cancel
User Account	: Control helps stop unauthorized changes to your computer.

- 4. Click Continue to open the Local Security Policy window.
- 5. In the left-hand pane, expand the Local Policies node and select Security Options.
- 6. Scroll to the bottom of the list of policies in the right-hand pane.



7. Verify that the User Account Control: Detect application installations and prompt for elevation policy is set to Enabled.

Þ 🔿 📰 🔀 🗐 💺	?		
Security Settings Account Policies Password Policy Paccount Lockout Polic Account Lockout Polic Audit Policies Audit Policies Windows Firewall with Adx Public Keye Policies Software Restriction Policie If Security Policies on Loca	Policy Shutdown: Clear virtual memory pagefile System cryptography: Force strong key protection for user key System cryptography: Use FIPS compliant algorithms for encr System objects: Require case insensitivity for non-Windows su System objects: Strengthen default permissions of internal sys System settings: Optional subsystems System settings: Use Certificate Rules on Windows Executable User Account Control: Admin Approval Mode for the Built-in User Account Control: Behavior of the elevation prompt for st User Account Control: Detect application installations and pro User Account Control: One elevate executables that are signe	Security Setting Disabled Not Defined Disabled Enabled Posix Disabled Disabled Prompt for consent Prompt for creden Enabled Disabled Enabled	^
< <u> </u>	User Account Control: Run all administrators in Admin Appro User Account Control: Switch to the secure desktop when pro User Account Control: Virtualize file and registry write failures to	Enabled Enabled per-user locations	4 III

4.1.2 IIS 6 Configuration Compatibility Features

The Sitecore installation program requires IIS 6 configuration compatibility.

To ensure that the appropriate features are enabled:

- 1. Log in to your Vista as an administrator.
- 2. Click Start, Control Panel.
- 3. Double-click the Programs and Features icon.
- 4. In the Tasks pane, click the Turn Windows features on or off task.





The UAC (User Account Control) will request your permission to continue.



5. Click Continue to open the **Windows Features** dialog box:

🔄 Windows Features	
Turn Windows features on or off	0
To turn a feature on, select its check box. To turn a featu check box. A filled box means that only part of the feature	re off, clear its e is turned on.
🗉 🔲 🔒 FTP Publishing Service	
🖃 🔲 🔒 Web Management Tools	
🖃 🔲 🐌 IIS 6 Management Compatibility	
🔲 🎍 IIS 6 Management Console	=
IIS 6 Scripting Tools	
🗾 📔 IIS 6 WMI Compatibility	
🗾 📗 IIS Metabase and IIS 6 configuration	i compatibility
🔽 📔 IIS Management Console	
🔽 📙 IIS Management Scripts and Tools	
🔽 📔 IIS Management Service	
🗉 🔲 📔 World Wide Web Services	*
•	
ОК	Cancel

- 6. Locate and expand the Internet Information Services group.
- 7. Locate and expand the Web Management Tools group.
- 8. Locate and expand the IIS 6 Management Compatibility group.
- 9. Ensure that the *IIS 6 WMI Compatibility* feature is enabled.
- 10. Ensure that the *IIS Metabase and IIS 6 configuration compatibility* feature is enabled.



4.2 Installation Process

To start the installation process you need to launch the **Sitecore 6.X.X rev.XXXXXX.exe** application, which will start the installation wizard. This section describes the steps of the wizard.

Welcome screen



Review the welcome screen and click Next.

Upgrade or New Instance

pgrade or Select an	New Instance installation option.	Ø
	New Instance This option installs a new instance of Sitecore. Existing Instance	
*	This option removes an existing instance of Sitec	ore.
	< Back Next >	Cancel

Select the **New Instance** radio button to *install a new instance*. Select the **Existing Instance** to *remove and existing instance of Sitecore CMS*. **Prerequisites**



requisites The following components must be installed on your compu you can install Sitecore.	uter before	
Prerequisite	Status	^
Operation system is supported	~	
.NET Framework 3.5	~	
Internet Information Service 5.1 or higher	~	
Internet Information Service is started	~	
ASP.NET registered in IIS	~	~

The wizard will check the components required to install Sitecore CMS and put a green mark if a component meets the requirement or a red cross otherwise. If the latter is the case, you need to resolve the appropriate requirement before you proceed. Click **Next** when done.

License Agreement



Read the License Agreement and select the appropriate radio button. Click **Next** when done. **Installation Mode**





Select the installation mode – **Simple**, which allows to install Sitecore quickly with the default settings or **Expert**, if you want to customize the installation.

Click Next when done.

License File

License file:	D:\0	MS\license.xml Brow	/se
COMPANY		N/A	^
VERSION		5.2	
RESELLER			Ξ
COUNTRY ISC)	UA	
ADDRESS		2 Glinky Street, Office 403 Dniepropetrovsk DP	~

Select the license file. Click Next when done.

Instance Name

instance Name	
Give this new insta	ince or sitecore a unique name.
Instance Name:	MySite
NOTE: This name i	dentifies this instance of the application. It is also the
default hostname o	of an IIS6 + Web site.
	C Back Next > Cancel

Give this new instance of Sitecore CMS a unique name. This name is also the default hostname of an IIS web site.

Database Server and Installation Type



Sitecor	e - Installation 🛛 🔊	
Database Se Select the	rver and Installation Type database server and the type of installation.	
6	Database Server:	
4	Installation Type: Full (both client and databases are installed)	
	< Back Next > Cancel	

Choose the database server and the type of installation. The next section describes the SQL Server database option. If you are going to use Oracle storage, please proceed to the Oracle section.

The Client Only and Databases Only types are described in the sections below.

4.2.1 SQL Server

If you have chosen the SQL Server database storage on the **Database Server and Installation Type** step, you will see the following steps.

Database Server

Select the database se	rver and authe	ntication meth	od to use.	
Select the database se database servers. Sele	rver from a list ct the authenti	or click Brows cation method	e to see a to use.	list of all the
Database Server:				
(local)\SQLEXPRESS			~	Browse
Login to SQL server us Login ID:	ing:			
Password:				
russiona.				

Select the database server from a list or click Browse to see a list of all the database servers available. Enter the login id (SQL server user name) and corresponding password. Click **Next** when done.

Destination Folder



astination Folder Select the location of the Sitecore installation. Sitecore in a different folder.	. Click Change to install
Install Sitecore in: D:\CMS\MySite	Change
Database Folder:	Change
Data Folder:	Change
< Back	: Next > Cancel

Select the folder where Sitecore CMS web site will be installed. You can also change the database folder and the folder where various data files will be stored (log files, packages, etc.). Click **Next** when done.

Destination Files



Click **Change** to change the default database file location.

Database Prefix

🖗 Sitecore - Installation 🛛 🔀
Database Prefix Specify the database prefix for this instance of Sitecore.
Database Prefix: MySite
< Back Next > Cancel

Specify the database prefix for this instance of Sitecore CMS.



IIS Web Site

S Web S Select a	iite an existing Web site or cre	ate a new Web site.	Q
	Create a new Web site		
	Web Site Name:	MySite	
0	Use an existent Web site Select a Web Site:	Default Web Site	~
NOTE: If you select an existing Web site, the configuration of that IIS Web site will be changed and its root will point to the new instance of Sitecore. The existing Web site will no longer be accessible under that name.			
		< Back Next	Cancel

Select an existing web site or create a new Web site by selecting the appropriate radio box.

Note

If you select an existing Web site, the configuration of that IIS Web site will be changed and it will point to the new instance of Sitecore. The existing Web site will no longer be accessible under that name.

Click Next when done.

Ready to Install Sitecore

eview the options y o install Sitecore.	ou selected. Click Back to change an option or click	: Install
Option:	Value:	^
Database Folder:	D:\CMS\MySite\Databases	
MDF Folder:	D:\CMS\MySite\Databases\MDF	E
License File:	D:\CMS\license.xml	
Instance Name:	MySite	
Database Vendor:	MSSQL	
	D:\CMS\MvSite\Data	~

Review the options you selected. Click Install to install Sitecore CMS.

Installing Sitecore



Sitecore Setup	
Installing Sitecore	Q
Sitecore is being installed.	
Status: Writing system registry values	
	,
Bac	

After you click **Next** you will see a window which will inform you about the installation process.

Finish

🗟 Sitecore Setup		
	The Sitecore Installation Wizard has finished.	O sitecore
	Click Finish to exit the wizard.	
	Launch Sitecore	_
	<u>B</u> ack Einish	Cancel

The Sitecore Installation Wizard has finished. Click Finish to exit the wizard.

Client Only Installation Type

This section describes the Client Only installation type.

Database Server and Installation Type



🖗 Sitecor	e - Installation
Database Se Select the	rver and Installation Type database server and the type of installation.
	Database Server: SQL Server
4	Installation Type: Client only (databases are not installed)
	< Back Next > Cancel

Select **Client only** installation type to install everything except databases.

Database Server

atabase Server Select the database se	rver and authentication method to	use.
Select the database se database servers. Sele	rver from a list or click Browse to s ct the authentication method to use	ee a list of all the a.
Database Server:		
(IOCAI)\SQLEXPRESS		Browse
Login to SQL server us	ing:	
Login ID:	sa	
Password:	••••	
☑ Test conn	ection validity	Cancel

Select the database server (the local server is selected by default) and provide the server user login and password. Although you are not going to install databases, you need to specify this information to let the wizard write the connections strings correctly. Click **Next** when done.

Destination Folder

tination Folder Select the location of the Sitecore Sitecore in a different folder.	e installation. Click Chan	ge to install 🕡
Install Sitecore in: D:\CMS\MySite1		Change
Data Folder:	a	Change
	< Back Next >	Cancel

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



Select the folder where Sitecore CMS web site will be installed. You can also change the folder where various data files will be stored (log files, packages, etc.). Click **Next** when done.

Database Prefix

atabase Prefix Specify the dat	abase prefix for this	s instance of Sit	ecore.	0
Database Prefix:	MySite1			

Enter the database prefix for Sitecore databases. Although you are not going to install databases, you need to specify this information to let the wizard write the connections strings correctly. Click **Next** when done.

IIS Web Site



Select an existing web site or create a new Web site by selecting the appropriate radio box.

Note

If you select an existing Web site, the configuration of that IIS Web site will be changed and it will point to the new instance of Sitecore. The existing Web site will no longer be accessible under that name.

Click Next when done.

Ready to Install Sitecore



eady to Install Sited	iore 🕡
Review the options y to install Sitecore.	ou selected. Click Back to change an option or click Install
Option:	Value:
Web Site Name:	Default Web Site
Instance Name:	MySite1
Installation Type:	Client only (databases are not installed)
Destination Folder:	D:\CMS\MySite1
	D.) CHOLES
License File:	D:\CMS\license.xml

Review the options you selected. Click Install to install Sitecore CMS.

Installing Sitecore

nstalling Sitecore		Ø
Sitecore is being installed.		
Status: Writing system registry	values	
(

After you click **Next** you will see a window which will inform you about the installation process. **Finish**



The Sitecore Installation Wizard has finished. Click **Finish** to exit the wizard.



Databases Only Installation Type

This section describes the Databases Only installation type.

Database Server and Installation Type

tabase Se Select the	rver and Installation Type database server and the type of installation.
6	Database Server: SQL Server
4	Installation Type: Databases only (client is not installed)
	< Back Next > Cancel

Select Databases only installation type to install only databases.

Database Server

Patabase Server	
Select the database se	erver and authentication method to use.
Select the database se database servers. Sele	erver from a list or click Browse to see a list of all the ect the authentication method to use.
Database Server:	
(local)\SQLEXPRESS	Browse
Login to SQL server us	sing:
Login ID:	sa
Password:	•••••
	· · · · · · · · · · · · · · · · · · ·
	< Back Next > Cancel

Select the database server from a list or click Browse to see a list of all the database servers available. Enter the login id (SQL server user name) and corresponding password. Click **Next** when done.

Destination Folder



estination Folder Select the location of the Sitecore i Sitecore in a different folder.	nstallation. Click Ch	ange to install
Database Folder: D:\CMS\MySite1\Databases		Change

Select the location where the databases will be installed.

Destination Files

stinal Click	ion Files Change to install the database fi	les in a different location.	Ø
	MDF Files:		
ł	D:\CMS\MySite1\Databases\MI	DF	Change
	LDF Files:		
<u> </u>	D:\CMS\MySite1\Databases\LC	OGS	Change
	(< Back Next >	Cancel

Click Change to change the default database file location. Click Next when done.

Database Prefix

atabase Prefix Specify the dat	abase prefix for this	instance of S	itecore.	Ø
atabase Prefix:	MySite1			
		< Back	Next >	Cancel

Enter the database prefix for Sitecore databases. Click **Next** when done.

Ready to Install Sitecore

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



eady to Install Site	core	F
Review the options to install Sitecore.	you selected. Click Back to change an option or click I	Install
Option:	Value:	^
Database Folder:	D:\CMS\MySite1\Databases	
MDF Folder:	D:\CMS\MySite1\Databases\MDF	Ξ
License File:	D:\CMS\license.xml	
Instance Name:	MySite1	
Database Vendor:	MSSQL	
Database Prefix:	MySite1	~

Review the options you selected. Click Install when done.

4.2.2 Oracle Tablespace

In case you are going to use Oracle database server, you must create the appropriate tablespace first. To do this, run the following SQL script:

```
create tablespace sitecore logging datafile 'sitecore.dbf' size 200M reuse autoextend on next 100M extent management local segment space management auto;
```

4.2.3 Oracle

If you have chosen the Oracle database storage on the **Database Server and Installation Type** step, you will see the following steps.

Important

You must create the Sitecore Oracle tablespace before you proceed with the installation. For more information, see **Section 4.2.2**, **Oracle Tablespace**.

Oracle Configuration

Configure the Oracle d	atabase server.
Oracle Client:	XE
Oracle Instance:	XE
System Password:	•••••
Prefix:	SC620
Tablespace:	SITECORE
🚹 Verify that the	tablespace you enter has enough free space.

Configure the Oracle database server.

- Oracle Client select the Oracle client.
- Oracle Instance select the Oracle instance.



- System password password for the system user of the Oracle instance.
- **Prefix** prefix to use for user schema names and passwords.
- **Tablespace** name of the tablespace for Sitecore data.

Click Next when done.

Destination Folder

estination Folder Select the location of the Sitecore instal Sitecore in a different folder.	lation. Click Change to install
Install Sitecore in: D:\CMS\MySite1	Change
Database Folder:	Change
Data Folder:	D:\CMS\MySite1\Databases Change
	< Back Next > Cancel

Select the folder where Sitecore CMS web site will be installed. You can also change the database folder and the folder where various data files will be stored (log files, packages, etc.). Click **Next** when done.

IIS Web Site

elect an existing Web site or e	create a new Web site.	Ø
○ Create a new Web site		
Web Site Name:	MySite1	
Ose an existent Web si	te	
Select a Web Site:	Default Web Site	~
NOTE: If you select ar that IIS Web site will new instance of Siteco be accessible under th	n existing Web site, the cor be changed and its root wil ore. The existing Web site v nat name.	nfiguration of Il point to the will no longer

Select an existing web site or create a new Web site by selecting the appropriate radio box.

Note

If you select an existing Web site, the configuration of that IIS Web site will be changed and it will point to the new instance of Sitecore. The existing Web site will no longer be accessible under that name.

Click Next when done.

Ready to Install Sitecore

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



eady to Install Site	sore
Review the options y to install Sitecore.	ou selected. Click Back to change an option or click Install
Option:	Value:
Database Folder:	D:\CMS\MySite1\Databases
License File:	D:\CMS\license.xml
Instance Name:	MySite1
Database Vendor:	Oracle
Data Folder:	D:\CMS\MySite1\Data

Review the options you selected. Click Install to install Sitecore CMS.

Installing Sitecore

nstalling Sitecore		Ø
Sitecore is being installed.		
Status: Writing system registry	values	
(

After you click **Next** you will see a window which will inform you about the installation process. **Finish**



The Sitecore Installation Wizard has finished. Click **Finish** to exit the wizard.



Client Only Installation Type

This section describes the Client Only installation type.

Database Server and Installation Type

tabase Se Select the	database server and the type of installation.
3	Database Server: Oracle
4	Installation Type: (Client only (databases are not installed)
	< Back Next > Cancel

Select **Client only** installation type to install everything except databases.

Oracle Configuration

racle Configuration Configure the Oracle d	atabase server.
Oracle Client:	XE
Oracle Instance:	XE
System Password:	•••••
Prefix:	SC620
Tablespace:	SITECORE
Verify that the	tablespace you enter has enough free space.
	< Back Next > Cancel

Configure the Oracle database server.

Although you are not going to install databases, you need to specify this information to let the wizard write the connections strings correctly. Click **Next** when done.

Destination Folder



Destination Folder Select the location of the Sitecor Sitecore in a different folder.	e installation. Click Char	nge to install 🕖
Install Sitecore in: D:\CMS\MySite1		Change
Data Folder:	ta	Change
	< Back Next	> Cancel

Select the folder where Sitecore CMS web site will be installed. You can also change the folder where various data files will be stored (log files, packages, etc.). Click **Next** when done.

IIS Web Site

Select an existing Web site or	create a new Web site.
OCreate a new Web site	e
Web Site Name:	MySite1
Use an existent Web s Select a Web Site:	site : Default Web Site
NOTE: If you select a that IIS Web site will new instance of Sitec	In existing Web site, the configuration of be changed and its root will point to the core. The existing Web site will no longer that name

Select an existing web site or create a new Web site by selecting the appropriate radio box.

Note

If you select an existing Web site, the configuration of that IIS Web site will be changed and it will point to the new instance of Sitecore. The existing Web site will no longer be accessible under that name.

Click Next when done.

Ready to Install Sitecore



eady to Install Sited	iore 🕖
Review the options y to install Sitecore.	ou selected. Click Back to change an option or click Install
Option:	Value:
License File:	D:\CMS\license.xml
Instance Name:	MySite1 3
Database Vendor:	Oracle
Data Folder:	D:\CMS\MySite1\Data
Oracle Client:	XE

Review the options you selected. Click **Install** to install Sitecore CMS.

Installing Sitecore

nstalling Sitecore		Ø
Sitecore is being installed.		
Status: Writing system registry	values	
(

After you click **Next** you will see a window which will inform you about the installation process. **Finish**



The Sitecore Installation Wizard has finished. Click Finish to exit the wizard.



Databases Only Installation Type

This section describes the Databases Only installation type.

Database Server and Installation Type

tabase Se Select the	rver and Installation Type database server and the type of installation.
6	Database Server: Oracle
4	Installation Type: Databases only (client is not installed)
	< Back Next > Cancel

Select **Databases only** installation type to install only databases.

Oracle Configuration

Dracle Configuration Configure the Oracle database server.		
Oracle Client:	XE	
Oracle Instance: System Password:	XE 🗸	
Prefix:	SC620	
Tablespace:	SITECORE	
Verify that the tables	space you enter has enough free space.	
	< Back Next > Cancel	

Configure the Oracle database server.

Click Next when done.

Destination Folder



estination Folder Select the location of the Sitecore i Sitecore in a different folder.	nstallation. Click Cha	ange to install
Database Folder: D:\CMS\MySite1\Databases		Change
	< Back Nex	ct > Cancel

Select the location where the databases will be installed.

IIS Web Site

Select an existing Web site or cr	eate a new Web site.
O Create a new Web site	
Web Site Name:	MySite1
Use an existent Web site Select a Web Site:	e Default Web Site
NOTE: If you select an that IIS Web site will be	existing Web site, the configuration of e changed and its root will point to the

Select an existing web site or create a new Web site by selecting the appropriate radio box.

Note

If you select an existing Web site, the configuration of that IIS Web site will be changed and it will point to the new instance of Sitecore. The existing Web site will no longer be accessible under that name.

Click Next when done.

Ready to Install Sitecore



eady to Install Site	core	Ø
Review the options to install Sitecore.	you selected. Click Back to change an option or click	Install
Option:	Value:	^
Database Folder:	D:\CMS\MySite1\Databases	
License File:	D:\CMS\license.xml	Ξ
Instance Name:	MySite1	
Database Vendor:	Oracle	
Oracle Client:	XE MySite1	
Web Site Name:	Default Web Site	~
	< Back Install Car	ncel

Review the options you selected. Click Install to install Sitecore Oracle databases.



4.3 Important Notes

- The installation program performs IIS backup at the very beginning. There is therefore an option to repair the IIS in case of failure.
- The installation program automatically sets the ASP.NET version to 2.0 in the IIS without asking the user. The reason is that Sitecore CMS 6 runs under .NET Framework 3.5.
- You can install as many instances of Sitecore on a single computer as you wish.
- The Sitecore CMS configuration files are automatically modified according to the settings provided in the wizard.
- The XmlControls.ThrowException web.config setting specifies whether or not an exception is thrown when an Xml Control cannot be loaded. It is set to true by default, as long as it provides better debugging possibilities, but under certain conditions it might prevent the Sitecore client from working. Any errors are written to the log.



4.4 Troubleshooting

If the installation program fails, archive the log file and attach it to your support request.

Here are two scenarios that you might come across:

• If the installation program fails after you click Install in the **Ready to Install** dialog box, the log file is automatically created in the following folder: C:\installlog.txt.

Note:

The log file is recreated during each installation. You should therefore copy it right after an unsuccessful installation. Otherwise the file will be overwritten.

• If the installation program fails before you click Install in the **Ready to Install** dialog box, you should run the installation again with the following parameters:

Setup.exe /V"/log log.txt", where log.txt is the log file name.

It log file is created in the same folder with the .exe file.



Chapter 5

Oracle Database Storage Setup

This chapter describes how to set up Oracle database storage for Sitecore CMS.

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



5.1 Quick Start Setup (Oracle 10g Express Edition only)

This section describes the quick installation of the Oracle data provider on a clean Sitecore CMS installation with Oracle 10g Express Edition. Such installation can be used for testing or development purposes.

- 1. Install Oracle 10g Express Edition Server (OracleXEUniv.exe). Note: Use "manager" password for SYSTEM user.
- 2. Install Sitecore CMS 6 using the .exe setup executable.
- 3. Load Sitecore data into the XE database:
 - a. In your computer's *System Properties/Advanced/Environment Variables* set up variables as follows:

DATABASE = XE TBS = USERS

- b. In the /Databases/Oracle folder launch createdata.bat.
- c. Remove DATABASE and TBS variables from the environment.
- 4. Copy the **dataFolder** variable definition from **Web.config** to **Web.config.Oracle**. For example <sc.variable name="dataFolder" value="c:\sitecore\data"/>
- 5. Backup the original Web.config and rename Web.config.Oracle to Web.Config.
- 6. Configure IIS as for a usual Sitecore installation and run Sitecore.



5.2 Oracle Storage Setup In Detail

This section describes setting up a Sitecore CMS with Oracle databases in detail.

5.2.1 Database Server Preparations

Database server must be an Oracle 10g or higher database instance which meets the following requirements:

- 1. Oracle instance must be configured in shared server mode.
- Oracle instance must contain a tablespace for Sitecore having at least 200MB of free space initially. More space will be needed as Sitecore database grows. Perform these steps on the Oracle Database Server (or a workstation PC with the administration tools for the Oracle) to set up Oracle databases for Sitecore CMS:
- 1. Install Sitecore CMS Databases (*DB.exe setup executable, version 6.0.2 or higher). Alternatively you can copy the */Databases/Oracle* folder from an existing Sitecore 6 installation.
- 2. Load Sitecore data into the Oracle database:
 - a. In the computer's System Properties/Advanced/Environment Variables set up user-level variables as follows:
 DATABASE = The name of the Oracle Database instance that will host Sitecore data (as set up on the PC).
 TBS = Name of the tablespace for Sitecore data
 PASSWORD = password for the system user of the Oracle instance.
 PREFIX = Prefix to use for user schema names and passwords (default: sc).
 - b. Launch the **createdata.bat** file from the /Databases/Oracle/folder.
 - c. Remove DATABASE, TBS, PASSWORD, PREFIX variables from the environment.

Installation scripts will set up three user schemas: %PREFIX%core, %PREFIX%master, %PREFIX%web (default: sccore, scmaster, scweb). User passwords are the same as the user names.

5.2.2 Website Server Setup Instructions

The following instructions describe a web server setup where Sitecore CMS file system will be hosted.

- Install Oracle Client matching the Oracle Database version. Make sure Oracle Data Provider for .NET 2.0 is installed. Add a connection to the appropriate Oracle instance (created as described in the Database Server Preparations section). For detailed instructions on this topic, refer to Section Adding a Connection to the Oracle Instance. Note: When installing Oracle Data Provider in a 64-bit Environment, make sure you use Oracle Client for Windows x64.
- 2. Install Sitecore CMS 6. If you are installing Sitecore from a ZIP archive (not an exe setup executable) you should configure the dataFolder setting and put a valid license.xml file into the data folder before proceeding to next steps.
- 3. Copy dataFolder variable definition from Web.config to Web.config.Oracle. For example <sc.variable name="dataFolder" value="c:\sitecore\data"/>
- 4. In the Web.config.Oracle, in **runtime/assemblyBinding** section set **bindingRedirect** to the Oracle.DataAccess assembly version installed on your system:
 - a. Open Global Assembly Cache by running the 'assembly' command in the command prompt of the Run console (Win+R).

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



- b. Locate Oracle.DataAccess.dll for your Oracle Client version, right-click, choose Properties and copy the Version value which can be in one of the following formats:
 - i. 10.2.x.x (Oracle Client versions prior to 10.2.0.2).
 - ii. 2.102.x.x or 2.111.x.x (Oracle Client versions 10.2.0.2 and higher).
- c. Modify the assemblyBinding setting. Replace 10.2.0.100 with your assembly version:

```
<dependentAssembly>
   <assemblyIdentity name="Oracle.DataAccess"
ublicKeyToken="89b483f429c47342"/>
   <bindingRedirect oldVersion="9.2.0.401"
newVersion="10.2.0.100"/>
</dependentAssembly>
```

- 5. Backup the original Web.config and rename Web.config.Oracle to Web.config.
- 6. Modify connection strings in /App_Config/ConnectionStringsOracle.config to point to the valid Oracle instance.
 - a. Data Source parameter must point to the local Oracle instance name as configured in the Oracle Net Manager.
 - b. User names and passwords must be adjusted to match those installed on the database server. Default names/passwords are sccore/sccore, scmaster/scmaster and scweb/scweb.
- 7. Configure IIS as for a usual Sitecore installation and run Sitecore.

Adding a Connection to the Oracle Instance

After installing Oracle Client on your PC or server you can find Oracle Net Manager in All Programs » Oracle - Home » Configuration and Migration tools » Net Manager.

	🛅 Oracle - ODACHome1 🛛 🔸	i Application Development	•
	💼 Startup 🔹 🕨	💼 Configuration and Migration Tools 🛛	🥳 Net Configuration Assistant
	💼 Windows PowerShell 1.0 🔹 🕨	💼 Integrated Management Tools 🛛 🛛	🔓 Net Manager
	a Internet Explorer	in Oracle Installation Products	•
All Programs 🜔	칠 Remote Assistance		



The main window of Net Manager consists of the item tree (on the left side) and the details pane (on the right side). To the left of the item tree there is a toolbar that allows to add and remove connection descriptions.

Eile Edit Command Help	
Oracle Net Configuration ↓ ↓ Local ↓ ⊕ Profile ♥ ⊕ Service Naming ⊕ ♥ Listeners	
	The Service Naming folder allows you to configure the local naming method. The local naming method is one of the Naming Methods that allows you to resolve a simple name, a net service name, into the information required to connect to a database or service. An end user enters the connect string that includes the net service name: CONNECT username/password@net_service_name To see if net service names have been created in a TNSNAMES.ORA file: Double-click the Service Naming folder. If no net service names exist, click "+" on the toolbar or choose Edit > Create.

To add a new connection to Oracle instance click the Create button on the toolbar to the left of the item tree.





This starts the Net Service Name Wizard.

😽 Net Service Name Wizard	l: Welcome 🛛 🔀
	To access an Oracle database, or other service, across the network you use a net service name. This wizard will help you create a net service name. Enter the name you want to use to access the database or service. It can be any name you choose. Net Service Name:
Cancel	< Back Next >>

On the first page of the wizard enter the Net Service Name and click Next.

Net Service Name is the local alias that Sitecore will use to connect to the Oracle server. It must be specified in the *data source* part of the connection strings in ConnectionStringsOracle.config in Sitecore.

Net Service Name Wizard	I: Welcome To access an Oracle dat you use a net service nar service name. Enter the name you want can be any name you cho Net Service Name:	abase, or other service, across the network ne. This wizard will help you create a net to use to access the database or service. It pose. SITECORE
Cancel		C Back Next >



Choose Protocol to connect to the Oracle service and click *Next*. It is most common to use TCP/IP protocol without encryption in local networks.

	To communicate with the database across a network, a network protocol is used. Select the protocol used for the database you want to access.
	TCP/IP (Internet Protocol) TCP/IP with SSL (Secure Internet Protocol) Named Pipes (Microsoft Networking) IPC (Local Database)
Cancel	S Back Next >>

For TCP/IP protocol set up the following settings: *host name* (or IP address) where the Oracle server is located and TCP *Port number*. Click *Next* to proceed.

Note: Default port number is 1521.

1	To communicate database comput name for the com	with the database using the TCP/IP protocol, the er's host name is required. Enter the TCP/IP host puter where the database is located.
	Host Name: A TCP/IP port nun databases is usu	10.38.15.161 nber is also required. The port number for Oracle ally 1521. You should not normally need to specify a
	different port num Port Number:	1521
Cancel)		(§ Back Next ≫)

Enter the Oracle service name (as configured on the remote server) and click Next.

Note: For Oracle 10g Express Edition service name is XE.

	To identify the database or service you must provide either its service name, for Oracle8i 8.1 or later, or system identifier (SID), for Oracle8 8.0 database versions. The service name for noracle8i or later database is normally its global database name.		
	(Oracle8i or later) Service Name: XE		
	C (Oracle8 or Previous) SID: ORCL		
	Optionally, you can choose if you want a shared or dedicated serve database connection. The default is to let the database decide.	,	
	Connection Type: Database Default	Ŧ	
Cancel	Bark Next		



Once all parameters are entered, you can test connection to your server on the test page by clicking the *Test* button.

	Press Test if you would like to verify that the database can be reached using the information provided. When you are finished, or if you want to skip testing, press Finish to create the net service name or, if enabled, Next to continue. Test
Cancel	Back Nevt > Finish

If the server does not accept the default 'scott/tiger' credentials, click *Change Login* button and enter login and password to one of your Sitecore database schemas.

est press Change Login. When finished testing pres	ss Close.
	🍰 Change Login 🛛 🔀
nitializing first test to use sttempting to connect us The test did not succeed ORA-01017: invalid user There may be an error in or the server may not be	Login Information Username: sccore Password: Cancel

When all parameters are entered correctly, connection test will report success.



Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.



Close the test window and click *Finish* to close the wizard. Net Manager main window will display the newly created connection and its parameters.

Sitecore® is a registered trademark. All other brand and product names are the property of their respective holders. The contents of this document are the property of Sitecore. Copyright © 2001-2010 Sitecore. All rights reserved.