

Sitecore CMS 7.1 Installation Guide

Installation guide for administrators and developers



Table of Contents

1.1 Getting Started. 5 1.2 Preparing to Install Sitecore CMS 7.1. 6 Chapter 2 Sitecore CMS 7.1 Requirements. 7 2.1 Sitecore Hosting Environment Requirements. 8 2.1.1 IIS Requirements. 8 2.1.2 Operating System Requirements. 8 2.1.3 NET Framework Requirements. 9 2.1.4 Visual Studio Requirements. 9 2.1.5 ASP.NET MVC Requirements 9 2.1.6 Database Requirements 9 2.1.7 Hardware Requirements 9 2.1.8 Astrivirus Software Considerations 10 2.2 Hardware Requirements 11 2.2.1 Software Requirements 11 2.2.1 Software Requirements 11 2.2.1 Vindows Visal / Windows 7 Pre-installation Steps 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 29 3.2.3 Uninstalling Sitecore 36	Chapter 1 Introduction	4
1.2 Preparing to Install Sitecore CMS 7.1. 6 Chapter 2 Sitecore CMS 7.1 Requirements. 7 2.1 Sitecore Hosting Environment Requirements. 8 2.1.1 IIS Requirements. 8 2.1.2 Operating System Requirements. 8 2.1.3 INET Framework Requirements. 9 2.1.4 Visual Studio Requirements. 9 2.1.5 ASP.NET MVC Requirements 9 2.1.6 ASP.NET MVC Requirements 9 2.1.7 Hardware Requirements 9 2.1.8 Antivirus Software Considerations 10 2.1.8 Antivirus Software Considerations 10 2.2 Sitecore Client Requirements 11 2.2.1 Software Requirements 11 2.2.1 Vardware Requirements 11 2.2.1 Hardware Requirements 11 2.2.1 Vindows 7 Pre-installation Steps 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2.1 Installation Process 15 3.2.2 Database Requirements isons for Aspen yemissions 16	1.1 Getting Started	5
Chapter 2 Sitecore CMS 7.1 Requirements	1.2 Preparing to Install Sitecore CMS 7.1	6
2.1 Sitecore Hosting Environment Requirements 8 2.1.1 IIS Requirements 8 2.1.2 Operating System Requirements 9 2.1.3 NET Framework Requirements 9 2.1.4 Signal Requirements 9 2.1.5 ASP.NET MVC Requirements 9 2.1.6 Database Requirements for a Server Running a Single Sitecore Installation 10 2.1.8 Antivirus Software Considerations 10 2.1 Software Requirements 11 2.2.1 Software Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 2.2.3 Its advise Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 2.2.3 Its advise Kecore Client Indows 7 Pre-installation Steps 13 3.1.1 The UAC (Dirent and database) 16 3.2.2 Database Rescontly Installation Mode 29 3.2.3 Client and Agatabase) 36 3.4 Troubleshooting 37	Chapter 2 Sitecore CMS 7.1 Requirements	7
2.1.1 IIS Requirements. 8 2.1.2 Operating System Requirements. 9 2.1.3 NET Framework Requirements. 9 2.1.4 Visual Studio Requirements. 9 2.1.5 Database Requirements for a Server Running a Single Sitecore Installation 10 2.1.6 Database Requirements for a Server Running a Single Sitecore Installation 10 2.1.6 Database Requirements 10 2.1.7 Hardware Requirements 11 2.2.1 Software Considerations 10 2.1 Software Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 2.2.1 Software Requirements 11 2.2.1 Visitows Visital Vindows Visital Software Considerations 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2.1 Full Mode (client and database) 16 3.2.2 Database Only Installation Mode 23 3.2.3 Linstallation Process 36 3.4 Troubleshooting 37 Chapter 4 <t< td=""><td>2.1 Sitecore Hosting Environment Requirements</td><td>8</td></t<>	2.1 Sitecore Hosting Environment Requirements	8
2.1.2 Operating System Requirements 9 2.1.3 NET Framework Requirements 9 2.1.4 Visual Studio Requirements 9 2.1.5 ASP.NET MVC Requirements 9 2.1.6 ASP.NET MVC Requirements 9 2.1.7 Hardware Requirements for a Server Running a Single Sitecore Installation 10 2.1.8 Antivirus Software Considerations 10 2.2 Sitecore Client Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 2.2.1 Hardware Requirements 12 3.1 The UAC (User Account Control) Configuration 13 3.1.1 The UA Cole Control Control Configuration 13 3.2.1 Installation Process 15 3.2.2 Database Sonly Installation Mode 23 3.3.3 Client and database) 16 3.4.2 Database Sonly Installation Mode 23 3.2.3 Client and Registry Permissions 34 4.1 Installiation Process Overview 39 4.2 Configuring Folder and Re	2.1.1 IIS Requirements	8
2.1.3 .NET Framework Requirements 9 2.1.4 Visual Studio Requirements 9 2.1.5 ASP.NET MVC Requirements 9 2.1.6 Database Requirements for a Server Running a Single Sitecore Installation 10 2.1.8 Antivirus Software Considerations 10 2.1.8 Antivirus Software Considerations 10 2.1.8 Antivirus Software Requirements 11 2.2.1 Hardware Requirements 11 2.2.2 Hardware Requirements 11 Chapter 3 Using the Sitecore Installation Program 12 3.1 Windows Vista / Windows 7 Pre-installation Steps 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 3.5 Database Orly Installation Mode 29 3.4 Toubleshooting 37 4.1 Installing Siteco	2.1.2 Operating System Requirements	8
21.4 Visual Studio Requirements 9 21.5 ASP.NET MVC Requirements 9 21.6 Database Requirements 9 21.7 Hardware Requirements for a Server Running a Single Sitecore Installation 10 21.8 Antivirus Software Considerations 10 22 Sitecore Client Requirements 11 2.1.7 Hardware Requirements 11 2.1.8 Antivirus Software Considerations 10 22 Sitecore Client Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 3.1.1 The UAC (User Account Control) Configuration 13 3.1.1 The UI Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Corees 29 3.3 Uninstalling from the .ZIP File 36 4.1 Installing from the .ZIP File 37 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for System Folders 41 4.2.1 Installing f	2.1.3 .NET Framework Requirements	9
2.1.5 ASP.NET MVC Requirements 9 2.1.6 Database Requirements for a Server Running a Single Sitecore Installation 10 2.1.8 Antivirus Software Considerations 10 2.1.8 Antivirus Software Considerations 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 2.2.1 Software Requirements 12 3.1 Windows Vista / Windows 7 Pre-installation Steps 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.3 Client Only Installation Mode 23 3.3.1 The traballop foron the ZIP File	2.1.4 Visual Studio Requirements	9
2.1.6 Database Requirements for a Server Running a Single Sitecore Installation 10 2.1.7 Hardware Requirements for a Server Running a Single Sitecore Installation 10 2.1.8 Antivirus Software Considerations 10 2.2 Sitecore Client Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 2.1.3 Using the Sitecore Installation Program 12 3.1 The UAC (User Account Control) Configuration 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2.1 Installation Process 15 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 3.5 Configuring Folder and Registry Permissions 41 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for ASP.INET Requeets 41 4.2.2 File System Permissions	2.1.5 ASP.NET MVC Requirements	9
2.1.7 Hardware Requirements for a Server Running a Single Sitecore Installation 10 2.1.8 Antivirus Software Considerations 10 2.2 Sitecore Client Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 Chapter 3 Using the Sitecore Installation Program 12 3.1 Windows Vista / Windows 7 Pre-installation Steps 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3.2.3 Client Only Installation Mode 37 Chapter 4 Installing from the ZIP File 38 4.1 Installing from the ZIP File 38 4.1 Installing from the ZIP File 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.2 File System Permissions for ASP.NET Requests 41 4.2.2 File System Permissions for SQL Serv	2.1.6 Database Requirements	9
2.1.8 Antivirus Software Considerations 10 2.2 Sitecore Client Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 Chapter 3 Using the Sitecore Installation Program 12 3.1 Windows Vista / Windows 7 Pre-installation Steps 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 27 Chapter 4 Installation Process Overview 39 4.1 Installing from the ZIP File 38 4.2 Configuring Folder and Registry Permissions. 41 4.2.1 File System Permissions for ASP.NET Requests 41 4.2.2 File System Permissions for SQL Server Files 42 4.2.3 File System Permissions for SQL Server Files 42 4.3 Configuring the IIS 44 4.3.1	2.1.7 Hardware Requirements for a Server Running a Single Sitecore Installation	10
2.2 Sitecore Client Requirements 11 2.2.1 Software Requirements 11 2.2.2 Hardware Requirements 11 Chapter 3 Using the Sitecore Installation Program 12 3.1 Windows Vista / Windows 7 Pre-installation Steps 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstallation Frocess Overview 36 3.4 Troubleshooting 37 Chapter 4 Installing from the .ZIP File 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for ASP.NET Requests 41 4.2.2 File System Permissions for SQL Server Files 42 4.2.4 File System Permissions for SQL Server Files 42 4.3 Configuring the IIS 44 4.3.1<	2.1.8 Antivirus Software Considerations	10
2.2.1 Software Requirements. 11 2.2.2 Hardware Requirements. 11 Chapter 3 Using the Sitecore Installation Program. 12 3.1 Windows Vista / Windows 7 Pre-installation Steps. 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2.1 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for ANonymous Requests 41 4.2.3 File System Permissions for SQL Server Files 42 4.2.4 File System Permissions for SQL Server Files 42 Adding an Account to a User Group 43 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Poo	2.2 Sitecore Client Requirements	11
2.2.2 Hardware Requirements 11 Chapter 3 Using the Sitecore Installation Program 12 3.1 Windows Vista / Windows 7 Pre-installation Steps 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2.1 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installation Process Overview 39 4.1 Installation Process Overview 39 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for SQL Server Files 42 4.2.3 File System Permissions for SQL Server Files 42 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 4.2.4 File System Permissions for SQL Server Files 42 4.3 Configuring the IIS 44	2.2.1 Software Requirements	11
Chapter 3 Using the Siteore Installation Program. 12 3.1 Windows Vista / Windows 7 Pre-installation Steps. 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2 Installation Process 15 3.2.1 Full Mode (client and database) 15 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installing from the ZIP File 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for SQL Server Files 42 4.2.3 File System Permissions for SQL Server Files 42 4.2.4 File System Permissions for SQL Server Files 42 4.3 Configuring the IIS 44 4.3 Configuring the IIS 44 4.3 Configuring the IIS 44 4.3<	2.2.2 Hardware Requirements	11
3.1 Windows Vista / Windows 7 Pre-installation Steps. 13 3.1.1 The UAC (User Account Control) Configuration 13 3.2 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 23 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installation Process Overview 39 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for ASP.NET Requests 41 4.2.2 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 4.2.6 Windows Registry Permissions 42 Adding an Account to a User Group 43 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool 44 Create the Application Pool 44	Chapter 3 Using the Sitecore Installation Program	12
3.1.1 The UAC (User Account Control) Configuration 13 3.2 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installation Process Overview 39 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for SQL Server Files 42 4.2.3 File System Permissions for SQL Server Files 42 Adding an Account to a User Group 43 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool 44 Create the Application Pool 44 Create the Application Pool 44 4.4 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49	3.1 Windows Vista / Windows 7 Pre-installation Steps	13
3.2 Installation Process 15 3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installing from the ZIP File 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for ASP.NET Requests 41 4.2.2 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 4.3 Create the Application Pool. 44 4.3.1 IIS 7 44 4.4 Granting Execute Rights to Stored Procedures 47 4.4 Granting Execute Rights to Stored Procedures 53 4.4.1 Create Bistorage Setup 53 <tr< td=""><td>3.1.1 The UAC (User Account Control) Configuration</td><td>13</td></tr<>	3.1.1 The UAC (User Account Control) Configuration	13
3.2.1 Full Mode (client and database) 16 3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installation Process Overview 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for ANDYNE Requests 41 4.2.2 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 4.2.5 Windows Registry Permissions 42 4.2.5 Windows Registry Permissions 42 4.3.1 IIS 7 44 4.3.1 IIS 7 44 Create the Application Pool 44 Create the Website 46 Limit Access to Anonymous Users 47 4.4 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 53 4	3.2 Installation Process	15
3.2.2 Databases Only Installation Mode 23 3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installation Process Overview 39 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions. 41 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for System Folders 41 4.2.3 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions. 42 Adding an Account to a User Group 43 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool. 44 Create the Application Pool. 44 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5 Oracle Database Storage Setup	3.2.1 Full Mode (client and database)	16
3.2.3 Client Only Installation Mode 29 3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installing from the ZIP File 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for SN.NET Requests 41 4.2.3 File System Permissions for SQL Server Files 42 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 43 Configuring the IIS 44 43.1 11S 7 Adding an Account to a User Group 44 43.1 11S 7 4.3 Configuring the IIS 44 44.1 4.3.1 IIS 7 44 Create the Application Pool 44 4.3.1 Configuration 49 4.4.1 Create the Website 46 Limit Access to Anonymous Users 47 47 <	3.2.2 Databases Only Installation Mode	23
3.3 Uninstalling Sitecore 36 3.4 Troubleshooting 37 Chapter 4 Installation Process Overview 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for ANONMOUS Requests 41 4.2.2 File System Permissions for SQL Server Files 41 4.2.3 File System Permissions for SQL Server Files 42 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 43 Configuring the IIS 44 4.3.1 IIS 7 Adding an Account to a User Group 44 4.3.1 1IS 7 Adding an Account to a User Group 44 4.3.1 1IS 7 4.4 A.3.1 IIS 7 44 Create the Application Pool 44 44 Create the Website 46 46 Limit Access to Anonymous Users 47 4.4 4.5 Oracle Database Account for Sitecore CMS Databases on SQ	3.2.3 Client Only Installation Mode	29
3.4 Troubleshooting 37 Chapter 4 Installing from the .ZIP File 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for ASP.NET Requests 41 4.2.3 File System Permissions for System Folders 41 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 4.3 Configuring the IIS 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool 44 Create the Application Pool 44 Create the Application Pool 44 4.4 Microsoft SQL Server Configuration 49 4.4.1 Create the Application Pool 49 4.4.1 Create Storage Setup 53 4.5 Oracle Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51	3.3 Uninstalling Sitecore	36
Chapter 4 Installing from the ZIP File 38 4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for SP.NET Requests 41 4.2.3 File System Permissions for System Folders 41 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 4.2.5 Windows Registry Permissions 42 A.2 File System Permissions 42 4.2.5 Windows Registry Permissions 42 4.2.5 Windows Registry Permissions 42 4.2.5 Windows Registry Permissions 42 4.3.1 IIS 7 44 43.1 Create the Application Pool 44 44.1 43.1 43 Create the Website 46 44 41 42 Granting Execute Rights to Stored Procedures 47 4.4 Create the Website Rights to Stored Procedures 51 53 53 4.4.2 Gr	3.4 Troubleshooting	37
4.1 Installation Process Overview 39 4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for ASP.NET Requests 41 4.2.3 File System Permissions for System Folders 41 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool 44 Create the Website 46 Limit Access to Anonymous Users 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Create the Website 46 Limit Access to Anonymous Users 51 4.5 Oracle Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 A.5.1 Oracle Storage Setup 53	Chapter 4 Installing from the .ZIP File	38
4.2 Configuring Folder and Registry Permissions 41 4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for ASP.NET Requests 41 4.2.3 File System Permissions for System Folders 41 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool. 44 Create the Website 46 Limit Access to Anonymous Users 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.6 Uninstalling Sitecore (ZIP installation) <	4.1 Installation Process Overview	39
4.2.1 File System Permissions for Anonymous Requests 41 4.2.2 File System Permissions for ASP.NET Requests 41 4.2.3 File System Permissions for System Folders 41 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool. 44 Create the Application Pool. 44 Create the Website 46 Limit Access to Anonymous Users 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 <td>4.2 Configuring Folder and Registry Permissions</td> <td>41</td>	4.2 Configuring Folder and Registry Permissions	41
4.2.2 File System Permissions for ASP.NET Requests 41 4.2.3 File System Permissions for System Folders 41 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool. 44 Create the Website 46 Limit Access to Anonymous Users 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.5 Uninstalling Sitecore (ZIP installation) 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 5	4.2.1 File System Permissions for Anonymous Requests	41
4.2.3 File System Permissions for System Folders 41 4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool 44 Create the Website 46 Limit Access to Anonymous Users 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.2.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	4.2.2 File System Permissions for ASP.NET Requests	41
4.2.4 File System Permissions for SQL Server Files 42 4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool. 44 Create the Website 46 Limit Access to Anonymous Users. 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.2.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 A5.1 Oracle Storage Setup 53 A5.1 Oracle Storage Setup 53 A6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	4.2.3 File System Permissions for System Folders	41
4.2.5 Windows Registry Permissions 42 Adding an Account to a User Group 43 4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool 44 Create the Website 46 Limit Access to Anonymous Users 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.5.1 Oracle Storage Setup 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	4.2.4 File System Permissions for SQL Server Files	42
Adding an Account to a User Group434.3Configuring the IIS444.3.1IIS 744Create the Application Pool44Create the Website46Limit Access to Anonymous Users474.4Microsoft SQL Server Configuration494.4.1Creating a Database Account for Sitecore CMS Databases on SQL Server 2008494.4.2Granting Execute Rights to Stored Procedures514.5Oracle Database Storage Setup534.5.1Oracle Storage Setup534.6Uninstalling Sitecore (ZIP installation)55Chapter 5Limitations and Specific Requirements565.1Maximum Number of Worker Processes575.2Miscellaneous58	4.2.5 Windows Registry Permissions	42
4.3 Configuring the IIS 44 4.3.1 IIS 7 44 Create the Application Pool. 44 Create the Website 46 Limit Access to Anonymous Users. 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 A.5.1 Oracle Storage Setup 53 A.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	Adding an Account to a User Group	43
4.3.1 IIS 7 44 Create the Application Pool. 44 Create the Website 46 Limit Access to Anonymous Users. 47 4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 Database Server Preparations 53 Website Server Setup Instructions 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	4.3 Configuring the IIS	44
Create the Application Pool	4.3.1 IIS 7	44
Create the Website46Limit Access to Anonymous Users474.4Microsoft SQL Server Configuration494.4.1Creating a Database Account for Sitecore CMS Databases on SQL Server 2008494.4.2Granting Execute Rights to Stored Procedures514.5Oracle Database Storage Setup534.5.1Oracle Storage Setup53Database Server Preparations53Website Server Setup Instructions534.6Uninstalling Sitecore (ZIP installation)55Chapter 5Limitations and Specific Requirements565.1Maximum Number of Worker Processes575.2Miscellaneous58	Create the Application Pool	44
Limit Access to Anonymous Users	Create the Website	46
4.4 Microsoft SQL Server Configuration 49 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 Database Server Preparations 53 Website Server Setup Instructions 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	Limit Access to Anonymous Users	47
4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008 49 4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 Database Server Preparations 53 Website Server Setup Instructions 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	4.4 Microsoft SQL Server Configuration	49
4.4.2 Granting Execute Rights to Stored Procedures 51 4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 Database Server Preparations 53 Website Server Setup Instructions 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008	49
4.5 Oracle Database Storage Setup 53 4.5.1 Oracle Storage Setup 53 Database Server Preparations 53 Website Server Setup Instructions 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	4.4.2 Granting Execute Rights to Stored Procedures	51
4.5.1 Oracle Storage Setup 53 Database Server Preparations 53 Website Server Setup Instructions 53 4.6 Uninstalling Sitecore (ZIP installation) 55 Chapter 5 Limitations and Specific Requirements 56 5.1 Maximum Number of Worker Processes 57 5.2 Miscellaneous 58	4.5 Oracle Database Storage Setup	53
Database Server Preparations53Website Server Setup Instructions534.6Uninstalling Sitecore (ZIP installation)55Chapter 5Limitations and Specific Requirements565.1Maximum Number of Worker Processes575.2Miscellaneous58	4.5.1 Oracle Storage Setup	53
Website Server Setup Instructions534.6Uninstalling Sitecore (ZIP installation)55Chapter 5Limitations and Specific Requirements565.1Maximum Number of Worker Processes575.2Miscellaneous58	Database Server Preparations	53
4.6Uninstalling Sitecore (ZIP installation)55Chapter 5Limitations and Specific Requirements565.1Maximum Number of Worker Processes575.2Miscellaneous58	Website Server Setup Instructions	53
Chapter 5Limitations and Specific Requirements565.1Maximum Number of Worker Processes575.2Miscellaneous58	4.6 Uninstalling Sitecore (ZIP installation)	55
5.1Maximum Number of Worker Processes575.2Miscellaneous58	Chapter 5 Limitations and Specific Requirements	56
5.2 Miscellaneous	5.1 Maximum Number of Worker Processes	57
	5.2 Miscellaneous	58



5.2.1	Install Latest Updates	58
5.2.2	UNC Share Not Supported	58
5.2.3	Sitecore Cannot Operate from a Virtual Directory	58
5.2.4	Install IIS Before Updating .NET Framework	58
Chapter 6	Post-Installation Steps	59
6.1 C	ontent Expiration	60
6.2 W	indows Authentication for Sitecore	62
6.3 Se	etting Microsoft SQL Server Database Properties	63
6.4 R	ebuild the Search Index and the Link Database	65
6.5 C	ache Configuration	66
Chapter 7	Appendix	67
7.1 Se	erver Configuration	68
7.1.1	Updating the Security Settings for a Folder	68
Maki	ng the Security Tab Visible	68
Maki	ng an Account Visible	69
7.2 C	reating a Web Project in Visual Studio	70



Chapter 1

Introduction

This document describes how to install Sitecore CMS.

The document contains the following chapters:

- Chapter 1 Introduction The chapter contains introduction to the Sitecore CMS 7.1 installation process
- Chapter 2 Sitecore CMS 7.1 Requirements Sitecore CMS 7.1 installation requirements
- Chapter 3 Using the Sitecore Installation Program The chapter describes how to use the Sitecore Installation Program
- Chapter 4 Installing from the .ZIP File How to install Sitecore CMS 7.1 from the .ZIP file
- Chapter 5 Limitations and Specific Requirements The information regarding limitations and requirements of Sitecore CMS 7.1
- Chapter 6 Post-Installation Steps The chapter describes some necessary actions after installation
- Chapter 7 Appendix The chapter contains the supplementary instructions that help to configure the environment



1.1 Getting Started

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.

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.
- Supporting relational databases. The databases are often stored under the supporting file system.

Configuration is managed by files such as web.config and the files under the /App Config folder.

For information about hardening security when Sitecore is installed, see the *Security Hardening Guide*. 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 . 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.

You can create an archive of your Sitecore CMS solution to move it from one computer to another.

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



1.2 Preparing to Install Sitecore CMS 7.1

There are several ways to install Sitecore. They depend 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.

Before installing 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:
 - o SQL Server 2008 R2 SP1, SQL Server 2012 or SQL Express.
 - Oracle Database 11g R2 (11.2) or higher.
- 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.



Chapter 2

Sitecore CMS 7.1 Requirements

This chapter describes the prerequisites, hardware, and software requirements for Sitecore CMS 7.1 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 a workstation.

This chapter contains the following sections:

- Sitecore Hosting Environment Requirements
- Sitecore Client Requirements



2.1 Sitecore Hosting Environment Requirements

Sitecore CMS 7.1 has some specific requirements towards the operating system, Web Server, .NET, Visual Studio and database server.

2.1.1 **IIS Requirements**

Sitecore CMS can be hosted on the following IIS versions running on supported operating systems:

- IIS 7.0
- IIS 7.5
- IIS 8.0

You must use the version of IIS that is supported by your operating system. For more information about IIS and operating systems, see Microsoft's documentation.

Sitecore CMS does not support any other ASP.NET web servers such as Visual Studio Cassini, IIS Express, or Mono Web Server.

Important

Sitecore neither supports nor permits multiple IIS website definitions pointing to the same Sitecore web root.

2.1.2 Operating System Requirements

Sitecore CMS 7.1 is compatible only with those Client and Server Operating Systems, which support .NET Framework 4.5. Sitecore CMS can be hosted on the following Microsoft operating systems:

- Windows Server 2008 (32/64-bit) SP2+
- Windows Server 2008 R2 (32/64-bit) SP1+
- Windows Server 2012 (32/64-bit)
- Windows Server 2012 R2 (32/64-bit)
- Windows Vista (32/64-bit) SP2+
- Windows 7 (32/64-bit, Home Premium and higher) SP1+
- Windows 8 (32/64-bit)

Important

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

Windows 7

Sitecore CMS supports the following editions of the Windows 7 operating system:

- Ultimate
- Professional
- Enterprise



It is possible to run Sitecore on Windows 7 Home Premium if you install IIS 7.5 on it. For more information about installing IIS 7.5 on Windows 7 Home Premium, see the following article:

• Installing IIS 7.5 on Windows 7 Home Premium, Home Basic, or Home Starter.

For more information about the feature limitations in the various Windows 7 editions, see the following article:

Available Web Server (IIS) Role Services in IIS 7.5

Windows Vista

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. For more information about IIS configuration on different editions of Windows Vista, see the following articles:

- Why you need Vista Business / Ultimate for IIS 7?
- IIS 7.0 Features and Vista Editions

2.1.3 .NET Framework Requirements

Sitecore CMS 7 requires .NET Framework 4.5.

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

2.1.4 Visual Studio Requirements

Sitecore CMS 7 requires Visual Studio 2012 or later.

The Sitecore code is compiled in .NET 4.5 and you must therefore use Visual Studio 2012 to compile your projects.

2.1.5 ASP.NET MVC Requirements

Sitecore CMS 7.1 requires ASP.NET MVC 4.

In Sitecore CMS 7.1, Sitecore ASP.NET MVC integration is enabled by default. Therefore, you must have Microsoft ASP.NET MVC 4 installed before you run the installation program. If you do not have Microsoft ASP.NET MVC 4 installed, the installation program will display an error message. You must install Microsoft ASP.NET MVC 4 and then resume the installation program.

2.1.6 Database Requirements

Sitecore CMS supports the following database servers:

- MS SQL Server 2008 R2 SP1.
- MS SQL Server 2012.
- MS SQL Server Express.



• Oracle Database 11g R2 (11.2) or higher.

Note

Sitecore recommends running the database on a separate server from the web server.

Note

You should have the Oracle specific license keys in your license file to run Sitecore with the Oracle database: Sitecore.Oracle and Sitecore.FireDB.

2.1.7 Hardware Requirements for a Server Running a Single Sitecore Installation

We recommend the following hardware requirements:

- 4 core processor
- 4 GB of RAM

Note

The recommended hardware requirements are for running the software on a single computer. For more information about running Sitecore on different kinds of hardware, consult your Sitecore partner or Technical Sales Representative.

2.1.8 Antivirus Software Considerations

Some antivirus software can have a detrimental effect on the performance of ASP.NET applications including Sitecore. We therefore recommend that you use only antivirus scanners that are certified for the operating system that you use. For more information about the certified products, see the Windows Server Catalog website.

To ensure optimal performance, exclude the following folders from scanning by your antivirus software:

- The site root folder.
- The data folder that is defined in the <sc.variable name="dataFolder" ... /> setting in the web.config file.
- The folder that contains the actual Sitecore database files.
- The C:\Windows\Temp or {app pool user profile}\Temp folder.



2.2 Sitecore Client Requirements

This chapter describes requirements towards the software and hardware.

2.2.1 Software Requirements

Browser

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

- Microsoft Internet Explorer 11 (starting from CMS 7.1 Update-2)
- Microsoft Internet Explorer 10
- Microsoft Internet Explorer 9
- Microsoft Internet Explorer 8
- Mozilla Firefox 17+ (latest supported version by Mozilla)
- Google Chrome 25+ (current supported version by Chrome)
- Apple Safari 6 for Mac OS (Windows is not supported by Apple)
- IE8 compatibility not supported
- IE8 normal supported
- IE9 compatibility not supported
- IE9 normal supported
- IE10 compatibility not supported
- IE10 normal supported

Note

Sitecore CMS 7.1 supports all current stable versions of these browsers unless stated otherwise.

For more information about configuring a browser, see the manual Browser Configuration Reference.

Silverlight

If you want to install Sitecore DMS, you must also install Microsoft Silverlight 4 or later.

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.

You do not need to install any additional software on the Sitecore CMS clients that access Sitecore CMS servers.



Chapter 3

Using the Sitecore Installation Program

This chapter describes how to use the installation program to install Sitecore CMS.

You can download the Sitecore installation program from the <u>Sitecore CMS Downloads</u> page.

This chapter contains the following sections:

- Windows Vista / Windows 7 Pre-installation Steps
- Installation Process
- Uninstalling Sitecore
- Troubleshooting



3.1 Windows Vista / Windows 7 Pre-installation Steps

Before you can install Sitecore on Windows Vista or Windows 7, you must enable the *Detect application installations and prompt for elevation* UAC (User Account Control) configuration security policy.

3.1.1 The UAC (User Account Control) Configuration

To run the installation program on Windows Vista or Windows 7, 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 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.



4. Click Continue to open the Local Security Policy window.



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- 5. In the left-hand pane, expand the Local Policies node and select Security Options.
- 6. In the right-hand pane, scroll to the bottom of the list of policies.
- 7. Verify that the User Account Control: Detect application installations and prompt for elevation policy is set to Enabled.



3.2 Installation Process

To start the installation process, you must launch the **Sitecore 7.1. rev.XXXXXX.exe** application, which starts the installation wizard. This section describes the steps in the wizard.

Note

The Sitecore CMS configuration files are automatically modified according to the settings provided in the wizard.

Welcome screen



Review the welcome screen and click Next.

Upgrade or New Instance

Do you wa instance?	nt to create a new instance of Sitecore or remove an existing
	New Instance Create a new instance of Sitecore. Existing Instance Remove an existing instance of Sitecore. To install another instance, you must run the installation wizard again. Sitecore Instance:
	< Back Next > Cancel

Select the **New Instance** option to *install a new instance*.

Select the **Existing Instance** option to *remove an existing instance of Sitecore CMS*. This option is only active when an instance of Sitecore already exists on the machine.

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License Agreement



Read the license agreement and select the appropriate option. Click Next.

What to Install?



Select the type of installation that you want:

- Complete (client and database). This mode installs both the Sitecore databases and the Sitecore client on the local computer.
- Database only. This mode only installs the Sitecore databases.
- Client only. This mode installs everything except the databases.

3.2.1 Full Mode (client and database)

This mode installs both Sitecore databases and Sitecore client on the local computer.

In the Installation Type window, select the Complete option.



To install Sitecore WebDAV features, you must have the WebClient service on your computer. If the WebClient service is not available, the following message appears:



Disregard this message if you do not want to install WebDAV features. Click Next.

To install the Sitecore client, you must have Microsoft ASP.NET MVC 4 on your computer. If MVC 4 is not installed, the following message appears:



The installation cannot be completed without MVC 4. To proceed with the installation, close the error message, install ASP.NET MVC 4, and then click **Next**.

Instance Name

tance Name	
Give this new insta	ance of sitecore a unique name.
Instance Name:	MySyte
NOTE: This name i	dantifier this instance of the application It is also the default
NOTE: This name i hostname of an IIS	dentifies this instance of the application. It is also the default 56 + Web site.

Give a unique name to this new instance of Sitecore CMS. If you choose to create a new site in a later step, this name is also used as the hostname of an IIS web site.



License File

icense File:	C:\Sitecore\LICENS~1.XML	Browse
ADDRESS	2 Glinky Street, Office 403 Dniepropetrovsk DP 49000	•
COMPANY		
COUNTRY ISO	UA	=
RESELLER		
PURPOSE		
LICENSEE	Sitecore Ukraine	*

Browse to the license file that you want to use. Click Next.

Database Server

Select the database server.

If you select SQL Server, you see the following Database Server dialog box:

Select the database	e server and authentication me	ethod to use.
Select the appropri	ate database vendor:	SQL Server 🔹
Select the database from a list of all the the password for th Database Server:	: server from a list or click Bro : available database servers. Se lat login.	wee to select the database server elect the login to use and enter
(local)		 Browse
Login ID:	sa	
Password:	•••••	
For more options, o	lick Advanced.	Advanced
	< Back	Next > Cancel

Select the database vendor. 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 the corresponding password. The installation program will use these credentials to access SQL server.



To set the database prefix options, click **Advanced** and the **Advanced Database Options** dialog box appears:

dvanced Database Optio Check the advanced opt	ions for the database server.
Verify that the wizard ca Database Prefix:	an connect to the database server.
Database Prefix:	MySite
Add this prefix to the	names of the physical files.
	OK Cancel

Specify the database prefix for this instance of Sitecore CMS and select whether to prefix physical files or not.

Enter the login id (SQL server user name) and corresponding password. Sitecore applications will use these credentials to access the SQL server. Click **OK**.

Click Next.

If you select Oracle, you see the following Database Server dialog box:

Select the database serve	er and authentication (method to use.	U
Select the appropriate da	tabase vendor:	Oracle	•
Oracle Client:	OraDb11g_hc	me1[ODP.NET 2.112.1.0]	•
Oracle Instance:	ORCL		•
System Password:	•••••		
Prefix:	sc71		
Tablespace:	USERS		
	< Back	Next > C	ancel

Important

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;

Configure the Oracle database server. This dialog box contains the following fields:

- 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.

Destination Folder

Select Siteco	on Folder the location where Sitecore e in a different location.	will be installed. Click	Change to install	J
nstall Si	tecore in:			
	C:\Inetpub\wwwroot\My	Syte	Change	
For mo	re options, click Advanced.		Advance	d

Select the folder where Sitecore CMS web site will be installed.

To change the database folder and the folder where various data files will be stored — log files, packages, and so on — click **Advanced** and the **Destination Folders** dialog box appears:

Sitecore Data:		
C:\Inetpub\w	wwroot\MySyte\Data	Browse
 Sitecore Datal	bases:	
C:\Inetpub\w	wwroot\MySyte\Database	Browse
MDF Files:	C:\Inetpub\wwwroot\MySyte\Database\MI	Browse
LDF Files:	C:\Inetpub\wwwroot\MySyte\Database\LD	Browse

Enter new destination folders and click **OK**.

Click Next.

Note

Make sure that SQL server has the permissions to write to the destination folder.



IIS Web Site

Create a new Wel	h site			
create a new we	o site.			
Web Site Name:	MySyte			
For more options	, click Advanced.			Advanced
		< Back	Next >	Cancel

Enter the name of the new website. Click **Advanced** to edit a website port, application pool name and its mode and .NET Framework version.

Specify some a	additional parame	eters for IIS.		
pplication Pool				
Create applicat	ion pool named	MySyteAppPool		
Vebsite Port: 80)			
			ОК	Cancel

Click OK.



The **IIS Web Site** dialog box will reflect the changes. In Sitecore CMS 7.1, the Sitecore ASP.NET MVC Integration is enabled by default, and you will see the corresponding field in the dialog box:

Create a new W				
	eb site.			O
Web Site Name	MySyte			
Sitecore Applicat Web Sit .NET Ve Mode:	MVC Integration: ion Pool Name: e Port: rsion:	ON MySyteAppPool 80 4 Integrated		
For more optior	ıs, click Advanced.			Advanced
		< Back	Next >	Cancel

Click Next.

Ready to Install Sitecore

ady to Install Sitecore		
eview the options you selected stall Sitecore.	d. Click Back to change an option or click Install to	
Option:	Value:	
Instance Name:	MySyte	
License File:	C:\Sitecore\LICENS~1.XML	
Database Server:	(local)	
Destination Folder:	C:\Inetpub\www.root\MySyte	
Web Site Name:	MySyte	
Application Pool Name:	MySyteAppPool	
appreciation i consume:		

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



Installing Sitecore

Sitecore Setup		
Sitecore is being installed.		
Status: Installing Confi	g Keys and Values	
	Back	ext Cancel

After you click **Next**, you see a progress window which informs you about the installation process.

Finish



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

3.2.2 Databases Only Installation Mode

This section describes the Databases Only installation mode. This mode only installs Sitecore databases.



What to Install?



Select the **Databases only** option to only install the databases.

To install Sitecore WebDAV features, you must have the WebClient service on your computer. If not, the following message appears:



Disregard this message if you do not want to install WebDAV features.

Instance Name

tance Name	
ore and new mate	
Instance Name:	MySyte
NOTE: This name i	dentifies this instance of the application. It is also the default
NOTE: This name i hostname of an IIS	dentifies this instance of the application. It is also the default i6 + Web site.
NOTE: This name i hostname of an IIS	dentifies this instance of the application. It is also the default 6 + Web site.
NOTE: This name i hostname of an IIS	dentifies this instance of the application. It is also the default 6 + Web site.
NOTE: This name i hostname of an IIS	dentifies this instance of the application. It is also the default 6 + Web site.

Give this new instance of Sitecore CMS a unique name. If you choose to create a new site on a later step, this name is also used as the hostname of an IIS web site.

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Database Server

Select the database server.

If you select SQL server, you see the following Database Server dialog box:

Select the database	server and authentication me	ethod to use.	O
Select the appropria	ate database vendor:	SQL Server	•
Select the database from a list of all the the password for th	server from a list or click Bro available database servers. So at login.	wse to select the e elect the login to	database server use and enter
Database Server:			
(local)		•	Browse
Login ID:	sa		
Password:	•••••		
For more options, c	lick Advanced.		Advanced
	< Back	Next >	Cancel

Select the database server from a list or click **Browse** to see a list of all the database servers that are available. Enter the login ID — SQL server user name — and the corresponding password.

To set the database prefix options, click **Advanced** and the **Check the Advanced options of the database server** dialog box appears.

dvanced Database Optic Check the advanced opt	ins
check the bavanced opr	
Verify that the wizard ca	an connect to the database server.
Database Prefix:	
Database Prefix:	MySite
Add this prefix to the	names of the physical files.

Specify the database prefix for this instance of Sitecore CMS and select whether to prefix physical files or not. Click **OK**.

Click Next.



If you select Oracle, you see the following Database Server dialog box:

Select the database serve	r and authentication i	method to use.	U
Select the appropriate da	tabase vendor:	Oracle	•
Oracle Client:	OraDb11g_ho	ome1[ODP.NET 2.112.1.0]	•
Oracle Instance:	ORCL		-
System Password:	••••		
Prefix:	sc71		
Tablespace:	USERS		
	< Back	Next > 0	Tancel

Important

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;

Configure the Oracle database server. This dialog box contains the following fields:

- 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.

Destination Folder

Select Sitecor	on Folder the location where Sitecore re in a different location.	e will be installed. Click Ch	ange to install
nstall Si	tecore in:		
	C:\Inetpub\wwwroot\My	/Syte	Change
Forms	are ontions, click Advanced		Advanced
Torme	ore options, click Advanced	•	Advanced
		< Back Nex	t > Cancel

Select the location where the databases will be installed.



To change the database folder and the folder where various database files will be stored, click **Advanced**. The **Destination Folders** dialog box appears:

Select the loca	ations where the database files will be installed.	V
MDF Files:	C:\Inetpub\wwwroot\MySite\Database\MDF	Browse
LDF Files:	C:\Inetpub\www.root\MySite\Database\LDF	Browse

Enter destination folders and click **OK**.

Click Next.

Ready to Install Sitecore

eview the options you selected stall Sitecore.	. Click Back to change an option or click Install to	•
Option:	Value:	
Instance Name:	MySyte	
License File:	C:\Sitecore\LICENS~1.XML	
Database Server:	(local)	
Destination Folder:	C:\Inetpub\wwwroot\MySyte	
Web Site Name:	MySyte	
Application Pool Name:	MySyteAppPool	
plication Pool Name:	MySyteAppPool	

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



Installing Sitecore

nstalling (Sitecore
Sitecore i	s being installed.
Status:	Installing files
_	
File: C:\Inetpu adients\i	b www.root'WySite\Website\sitecore\shell\Themes\Standard\Gr htblue1.gif

After you click **Next**, you see a progress window which informs you about the installation process.

Finish



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



3.2.3 Client Only Installation Mode

This section describes the Client Only installation mode. This mode installs everything except databases.

What to Install?



Select the **Client only** check box.

To install Sitecore WebDAV features, you must have the WebClient service on your computer. If not, the following message appears:



Disregard this message if you do not want to install WebDAV features. Click Next.

To install the Sitecore client, you must have Microsoft ASP.NET MVC 4 installed on your computer. If MVC 4 is not installed, the following message appears:



The installation cannot be completed without MVC 4. To proceed with the installation, close the error message, install ASP.NET MVC 4, and then click **Next**.

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Instance Name

Give this new insta	ance of Sitecore a unique name.
Instance Name:	MySyte
NOTE: This name i hostname of an IIS	dentifies this instance of the application. It is also the default i6 + Web site.
NOTE: This name i hostname of an IIS	dentifies this instance of the application. It is also the default 6 + Web site.
NOTE: This name i hostname of an IIS	identifies this instance of the application. It is also the default 6 + Web site.
NOTE: This name i hostname of an IIS	dentifies this instance of the application. It is also the default 6 + Web site.

Give a unique name to the new instance of Sitecore CMS. If you choose to create a new site on a later step, the hostname of an IIS web site will also use this name.

License File

icense File:	C:\Sitecore\LICENS~1.XML	Browse
ADDRESS	2 Glinky Street, Office 403 Dniepropetrovsk DP 49000	^
COMPANY		
COUNTRY ISO	UA	
RESELLER		
PURPOSE		
LICENSEE	Sitecore Ukraine	*

Select the license file. Click Next.

Database Server

Select the database server.



If you have selected SQL server, you see the following Database Server dialog box:

Select the database	server and authentication me	ethod to use.	
Select the appropria	ite database vendor:	SQL Server	•
Select the database from a list of all the the password for th Database Server:	server from a list or click Bro available database servers. Se at login.	wse to select the database serve elect the login to use and enter	r
(local)		Browse	
Login ID:	sa		
Password:	••••		
For more options, c	ick Advanced.	Advanced	
	< Back	Next > Cancel	

Select the database vendor. 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 the corresponding password. The installation program will use these credentials to access the SQL server.

To set the database prefix options, click **Advanced** and the **Check the advanced options of the database server** dialog box appears.

Check the advanced opt	ions for the database server.
Verify that the wizard ca	in connect to the database server.
Database Prefix:	
Database Prefix:	MySite
Add this prefix to the	names of the physical files.
	OK Cancel

Specify the database prefix for this instance of Sitecore CMS and select whether to prefix physical files or not. Click **OK**.

Click Next.



If you select Oracle, you see the following Database Server dialog box:

Select the database serve	r and authentication i	method to use.	U
Select the appropriate da	tabase vendor:	Oracle	•
Oracle Client:	OraDb11g_ho	ome1[ODP.NET 2.112.1.0]	•
Oracle Instance:	ORCL		-
System Password:	••••		
Prefix:	sc71		
Tablespace:	USERS		
	< Back	Next > 0	Tancel

Important

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;

Configure the Oracle database server. This dialog box contains the following fields:

- 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.

Destination Folder

in a different location.	e will be installed. Click Cha	ange to install
ecore in:		
C:\Inetpub\wwwroot\My	Syte	Change
e options, click Advanced		Advanced
	< Back Next	Cancel
	in a different location. core in: C\Inetpub\wwwroot\My re options, click Advanced	in a different location. core in: C\Inetpub\www.root\MySyte re options, click Advanced.

Select the location where Sitecore will be installed.



To change the database folder and the folder where various database files will be stored, click **Advanced** and the **Destination Folders** dialog box appears:

Sitec estir Sel	itecore - Installation Extension - Installation - I				
)	Sitecore Data:				
	C:\Inetpub\www	Browse			
	MDF Files: LDF Files:	C:\Inetpub\wwwroot\MySite\Database\MC C:\Inetpub\wwwroot\MySite\Database\LDf	Browse Browse		
		ОК	Cancel		

Enter destination folders and click **OK**.

Click Next.

IIS Web Site



Enter the name of the new website.



Click Advanced to edit a website port, application pool name and mode, .NET Framework version.

Specify :	ed Settings some additional param	eters for IIS.	Ø
pplicatio	n Pool		
Create ap	oplication pool named	MySyteAppPool	
Vebsite			
Port:	80		
			OK Cancel

Click OK.

Click Next.

Ready to Install Sitecore



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



Installing Sitecore

nstalling (Sitecore
Sitecore i	s being installed.
Status:	Installing files
_	
File: C:\Inetpu adients\i	b www.root'WySite\Website\sitecore\shell\Themes\Standard\Gr htblue1.gif

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

Finish



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



3.3 Uninstalling Sitecore

To start the process of uninstalling Sitecore, perform one of the following actions:

• Open Windows Control Panel and select the **Programs and Features** option.

In the **Uninstall or change a program** window, locate the appropriate entry, right-click it and then click **Uninstall**:

Uninstall or change a program To uninstall a program, select it from the list and then Organize Uninstall	click Uninstall, Change, or Repair.	
To uninstall a program, select it from the list and then Organize Uninstall	click Uninstall, Change, or Repair.	
Organize Vininstall	click onlinistall, change, of Repair.	
Organize 🔻 Uninstall		
organize - oninstan		HII 🗸 🙆
-		• 😈
Name	Publisher	Installed On *
MSXML 4.0 SP2 (KB973688)	Microsoft Corporation	14.12.12
Nicam 1.5.1 rev. 120307 - Nicam	Sitecore Corporation	21.12.12
🔐 Notepad++		14.12.12
Paint.NET v3.5.10	dotPDN LLC	17.12.12
😹 Realtek HDMI Audio Driver for ATI	Realtek Semiconductor Corp.	06.12.12
Sitecore 6.5.0 rev. 120706 - CMS65	Sitecore Corporation	12.12.12
Sitecore 6.6.0 rev. 121015 - NewInstance1	Sitecore Corporation	11.12.12
Sitecore 7.0.0 rev. 130108 - NewInstance4	Sitecore Corporation	09.01.13
Skype™ 6.0	Skype Technologies S.A.	07.12.12
1.7.10.23359 (64 bit)	TortoiseSVN	12.12.12
🕩 TrueCrypt	TrueCrypt Foundation	06.12.12
📧 Visual Studio 2010 Prerequisites - English	Microsoft Corporation	25.05.12
🖹 Visual Studio 2010 Tools for SQL Server Compact 3.5	Microsoft Corporation	25.05.12
WCF RIA Services V1.0 SP1	Microsoft Corporation	25.05.12
🏘 Web Deployment Tool	Microsoft Corporation	25.05.12 ≡
🔗 Winamp	Nullsoft, Inc	18.12.12
Winamp Detector Plug-in	Nullsoft, Inc	18.12.12
Mindowe Live Ferentiale	Microsoft Corneration	25.05.12
	MSXML 4.0 SP2 (KB973688) Micam 1.5.1 rev. 120307 - Nicam Notepad++ Paint.NFL v3.5.10 Realtek HDMI Audio Driver for ATI Ositecore 6.5.0 rev. 12005 - NewInstancel Sitecore 7.0.0 rev. 130108 - NewInstancel Visual Studio 2010 Prerequisites - English Visual Studio 2010 Prerequisites - English Visual Studio 2010 Prese L Server Compact 3.5 WCF RIA Services VI.0 SP1 Web Deployment Tool Wimamp Windows L Isse Essentials Windows L Isse Essentials	MSXML 4.0 SP2 (KB973688) Microsoft Corporation Microsoft Corporation Microsoft Corporation Microsoft Corporation Microsoft Corporation Microsoft Corporation Stecore 5.0 rev. 12015 - NewInstance1 Sitecore 6.0 rev. 12015 - NewInstance1 Sitecore 7.0.0 rev. 12015 - NewInstance1 Sitecore 7.0.0 rev. 12015 - NewInstance1 Sitecore 7.0.0 rev. 12015 - NewInstance1 Sitecore 6.0 rev. 12015 - NewInstance1 Sitecore 6.0 rev. 12015 - NewInstance1 Sitecore 7.0.0 rev. 12015 - NewInstance1 Wicrosoft Corporation Wicrosoft Corporation Web Deployment Tool Microsoft Corporation Wilsoft, Inc Windows I have Erreatiate Wicrosoft Corporation

• Launch the Sitecore 7.X rev.XXXXX.exe application, in the Add or Remove Sitecore Instance step; select the Existing Instance check box.

Add or Ren Do you v instance	Nove a Sitecore Instance want to create a new instance of Sitecore or remove an existing
	New Instance Create a new instance of Sitecore. Existing Instance Remove an existing instance of Sitecore. To install another instance, you must run the installation wizard again. Sitecore Instance: [CMS650R110602] *
	< Back Next > Cancel

After uninstalling Sitecore, restart the SQL Server and IIS services as appropriate.

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3.4 Troubleshooting

If the installation program fails

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

If the installation program fails after you click **Install** in the **Ready to Install** dialog box, the log file is automatically created at: %TEMP%\SitecoreInstaller.log.

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.

"Database '...' cannot be upgraded" error message while using SQL Server

When using SQL Server the installer returns the "Database '...' cannot be upgraded" error message, the user account configured to run the SQL server application must have Full access permissions to the website root folder. Typically, the SQL server application runs in the context of the NETWORK SERVICE account.



Chapter 4

Installing from the .ZIP File

This chapter describes how to install Sitecore CMS using the ZIP archive of the Web site root. You can download the ZIP archive from the following page:

http://sdn.sitecore.net/SDN5/Resources/Sitecore%207/Sitecore%20CMS.aspx

This chapter contains the following sections:

- Installation Process Overview
- Configuring Folder and Registry Permissions
- Configuring the IIS
- Microsoft SQL Server Configuration
- Oracle Database Storage Setup
- Uninstalling Sitecore (ZIP installation)



4.1 Installation Process Overview

This section describes how to install Sitecore from a ZIP archive of the Sitecore CMS site root.

You can download the Sitecore CMS ZIP archive from the following page:

http://sdn.sitecore.net/SDN5/Resources/Sitecore%207/Sitecore%20CMS.aspx

To install an instance of Sitecore:

- 1. Install Microsoft .NET Framework V4.5.
- 2. Choose a parent directory path for the project, for example C:\InetPub\ProjectName.
- 3. Extract the .zip archive to create the following folders:

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

- 4. Set permissions as described in Section 4.2, Configuring Folder and Registry Permissions.
- 5. Place the appropriate license.xml file to the /Data folder. The location of the /Data folder is determined by the following setting in the web.config file:

<sc.variable name="dataFolder" value="/data" />

This setting should be changed to the absolute location of the folder, such as: C:\InetPub\ProjectName\Data

- 6. If you are running SQL Server, attach SQL databases from /Databases folder to the SQL server.
- 7. 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 " />
```

- 8. In the IIS, configure the web site as described in Section 4.3, Configuring the IIS.
- 9. Configure the Internet Explorer browser as described in Browser Configuration Reference.
- 10. Start the browser and enter the following address in the address bar:

http://ProjectName/sitecore



You should see the Sitecore login screen now:

Welco	ome to Sit	ecore	License H License ID	older: Sitecore Ukraine): 20121205220054
			Sitecore.N	IET 7.0.0 (rev. 130108)
User Nan Passwo	ne: rd: Remember me Login			
Forgot	Your Password Change Pa	assword	Brows	er Notes
User Interface:	Options		Welcome You are n Sitecore s	to Sitecore CMS 7.0. unning Mozilla Firefox. supports this browser.
🛃 Desktop	Content Editor	Page Editor		
User Interface Language:			-	
Dettait	Close Options			

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



4.2 Configuring Folder and Registry Permissions

This section describes the NTFS permissions for folders and files and Windows registry permissions required by Sitecore CMS for proper functioning. For practical advice on how to edit NTFS permissions and registry permissions, please refer to **Section 7.1**, **Server Configuration**, and to the MSDN web site and Windows help application.

4.2.1 File System Permissions for Anonymous Requests

Certain types of browser requests (generally for directory lookups and static resources) are executed with the permissions of the anonymous Internet user account. This account requires *Read* permissions to all files, folders, and subfolders under the /Website folder.

The following table contains the default name for this account in different versions of IIS:

IIS version	Default anonymous Internet user account name
7 and 7.5	IUSR

If IIS is configured not to use the default IUSR account for processing anonymous requests or Anonymous authentication is not enabled for the web site, the aforementioned permissions should be granted to the corresponding account(s).

4.2.2 File System Permissions for ASP.NET Requests

Requests for ASP.NET resources and all the .NET code running within the application is executed with the permissions of the account configured as an identity for the web site's application pool. This account requires *Modify* permissions to all files, folders, and subfolders under the /Website and /Data folders.

The following table contains the default account used for processing ASP.NET requests in different versions of IIS:

IIS version	Default ASP.NET account name
7	NETWORK SERVICE
7.5	AppPoolIdentity

IIS 6 and later versions allow changing the user account used for processing ASP.NET requests.

If you choose a different user account for processing ASP.NET requests, you must grant this account the aforementioned permissions.

Note

For more information about application pool identities and specifically about assigning rights to the AppPoolIdentity account, refer to the following article: <u>http://learn.iis.net/page.aspx/624/application-pool-identities/</u>

4.2.3 File System Permissions for System Folders

To be able to load .NET runtime and ASP.NET resources used for processing the ASP.NET requests, the worker process hosting the Sitecore CMS application requires access to multiple system files and folders that are not distributed as a part of the Sitecore CMS but installed as a part of Windows OS and .NET framework.

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Most of these permissions are granted by IIS to all ASP.NET applications automatically making the application pool identity account a member of the *IIS_IUSRS* security group.

However, on certain environments it is necessary to manually grant permissions for the application pool identity to the following system locations:

Default location	Required permissions	Comments
%WINDIR%\temp\	Modify	
%WINDIR%\Globalization\	Modify	Required for registering custom languages by the .NET Framework correctly
%PROGRAMDATA%\Microsoft\Crypto	Modify	Required for storing cryptographic keys used for encrypting/decrypting data

Note

ASP.NET and/or IUSR_* users require the modify access rights to the \temp folder to install Sitecore CMS.

These variables mentioned have the following default values:

Variable	Default value
%WINDIR%	C:\Windows
%PROGRAMDATA%	C:\ProgramData for IIS 7 and later

Note

For more information about built-in groups and accounts in IIS, refer to http://learn.iis.net/page.aspx/140/understanding-built-in-user-and-group-accounts-in-iis-7/

4.2.4 File System Permissions for SQL Server Files

If you are using SQL Server, the user account configured to run the SQL server application requires *Full access* to the /Databases folder containing MDF and LDF database files. Typically, the SQL server application runs within the context of the *NETWORK SERVICE* account.

4.2.5 Windows Registry Permissions

Sitecore CMS contains a built-in functionality that reads and updates the Windows performance counters that can be used for monitoring and troubleshooting the Sitecore application. This functionality requires access to Windows registry keys. This access can be granted by making the application pool identity a member of the built-in *Performance Monitor Users* group.

Note

If the required registry permissions are not granted, the "Access to the registry key 'Global' is denied" error will be written in the Sitecore log files whenever the application attempts to access Windows performance counters.

To avoid the error, you must prevent Sitecore from updating the performance counters. To do that, in the web.config file, set the "Counters.Enabled" setting to "false".



Adding an Account to a User Group

To add a Windows account to a user group, use the net localgroup command.

For example, to add the *NETWORK SERVICE* account to the *Performance Monitor Users* group, run the following command on the server hosting the Sitecore CMS web application:

net localgroup "Performance Monitor Users" /add "NETWORK SERVICE"

IIS reset is required for the changes to take effect.

For more information about the net localgroup command, refer to http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/net_localgroup.mspx



4.3 Configuring the IIS

The following sections describe how to configure different versions of IIS (versions 7 and 7.5) for Sitecore CMS.

The following list shows which operating systems use which IIS versions:

- IIS 7 Windows Server 2008, Windows Vista.
- IIS 7.5 Windows Server 2008 R2 SP1, Windows 7.

Elbrus deprecates support for IIS Classic Mode. In other words, the setup.exe will not allow installing with Classic Mode. Customers and partners can manually change to Classic Mode if desired.

4.3.1 IIS 7

This section contains the instructions for IIS 7 and 7.5.

Create the Application Pool

This section describes how to create the application pool for Sitecore on IIS7 or IIS7.5 (Windows 7, Windows Server 2008).

To create the application pool:

- 1. Start the **IIS Manager**.
- 2. In the **Connections** panel, select **Application Pools**.



3. Right-click Application Pools and click Add Application Pool.





4. In the Add Application Pool dialog box, enter the following values:

Name: ProjectNameAppPool .NET Framework version: 4.0 XXXXX Managed pipeline mode: Integrated.

- 5. Click OK.
- 6. In the Application Pools panel, select the application pool you have just created.

ile View Help						
Elle View Help onnections See WS-ELY (DK\ely) Paphication Pools Sites	Application Pool This page lets you view and mana pools are associated with worker p isolation among different applicat Filter: • • • • • • • • • • • • • • • • • • •	IS ge the list of approcesses, containions.	All Group by .NET Fram v4.0 v4.0 v4.0 v4.0	in the server. Applications, and pr publications, and pr Managed Pipel Integrated Classic Classic Integrated Integrated Integrated Integrated Integrated Integrated Integrated Integrated Integrated Integrated Integrated Integrated	ation ovide Identit Applic Applic Applic Applic Applic Netwc Netwc Netwc Netwc Netwc Netwc Netwc Netwc Netwc	Actions Add Application Pool Set Application Pool Defaults Application Pool Tasks Start Stop Recycle Edit Application Pool Basic Settings Recycling Advanced Settings Rename Rename Rename View Applications Poil Help Online Help
	Features View Content View	1			,	



7. In the Actions panel, click Advanced Settings.

IET Framework Version nable 32-Bit Applications anaged Pipeline Mode ame ueue Length	v4.0 False Integrated ProjectNameAppPool	E
aable 32-Bit Applications anaged Pipeline Mode ame ueue Length	False Integrated ProjectNameAppPool	=
anaged Pipeline Mode ame ueue Length	Integrated ProjectNameAppPool	E
ame ueue Length	ProjectNameAppPool	=
ueue Length		
	1000	
art Automatically	True	
2U		
mit	0	
mit Action	NoAction	
mit Interval (minutes)	5	
ocessor Affinity Enabled	False	
ocessor Affinity Mask	4294967295	
ocess Model		
entity	ApplicationPoolIdentity	
le Time-out (minutes)	20	
ad User Profile	True	
aximum Worker Processes	1	
ng Enabled	True	*
	In Automatically U U I mit Mit Action mit Interval (minutes) occessor Affinity Enabled occessor Affinity Mask occess Model entity e Time-out (minutes) ad User Profile aximum Worker Processes ng Enabled e	Automatically The Turner Turn

- 8. In the **Advanced Settings** dialog box:
 - Set the .NET Framework version to *v4.0*.
 - Set the **Identity** setting to the built-in account called *ApplicationPoolIdentity* or *NetworkService*.
 - Ensure that the Maximum Worker Processes setting is set to 1.
 - Set the Load User Profile setting to True.

Create the Website

To configure the website:

- 1. Start the **IIS Manager**.
- 2. In the Connections panel, expand Sites.

ا 🖻 🕥 💽	WS-ALKO Sites	•
<u>F</u> ile <u>V</u> iew <u>H</u> e	lp	
Connections	K\alko)	Filter:
▲ Siter	Add Web Site	Name
	<u>R</u> efresh	efai :ms
i i i i i i i i i i i i i i i i i i i	Switch to Content Vie	ew lySi
⊳ 🌏 MyTe ⊳ 🌏 SC64I	est B2	MyTe



3. Right-click *Sites* and then click **Add Web Site**.

<u>S</u> ite name:	Application pool:		
ProjectName	ProjectNameAppPo	ol	S <u>e</u> lect
Content Directory		_	
Physical path:			
C:\InetPub\ProjectName\\	Vebsite		
Pass-through authentication	on		
Connect as	ettings		
D 1 - 11			
binding T ID			
	ddress:	P <u>o</u> rt:	
http 🔻 All	Unassigned	▼ 80	
<u>H</u> ost name:			
projectname			
Example: www.contoso.co	m or marketing.contoso.cor	n	
Start Web site immediately	/		
	ſ	ОК	Cancel
	L		

4. In the Add Web Site dialog box, fill in the required fields, for example:

Site name: ProjectName Application pool: ProjectNameAppPool Physical path: C:\InetPub\ProjectName\Website Host name: projectname

- 5. Click OK.
- 6. Add the following line to your hosts file that is located at C:\Windows\System32\drivers\etc:

127.0.0.1 projectname

Now you can access your website by entering the http://projectname address in your browser.

Limit Access to Anonymous Users

You should prevent anonymous users from accessing the following folders:

- /App_Config
- /sitecore/admin
- /sitecore/debug
- /sitecore/shell/WebService

For instance, to limit anonymous access to the /App Config folder:

1. Open the IIS.



2. In the **Connections** panel, browse your Sitecore site and select the /App Config folder.

🖣 Internet Information Services (IIS) Manage	er	- • •
🕒 🕢 📋 🕨 WS-ALKO 🕨 Sites I	ecmsite.net > App_Config >	
WS-ALKO Sites Eile View Help Connections WS-ALKO (DK\alko) Application Pools WS-ALKO (DK\alko) Application Pools Good Sites Default Web Site App_Config App_Config App_Config App_Config App_Config App_Config App_Config App_Config Sites Properties Sites Sites	 ecrusite.net App_Config Home App_Config Home Filter: App_Config Home Filter: App_Config Home Filter: App_Config Home Filter: App_Config Home Filter: App_Config Home Filter: Application Filter: Application Filter: Application Controls Strings: Controls Controls	 Actions Open Feature Explore Edit Permissions Manage Folder Browse of older Browse of older Browse eite.net on ".80 (http) Help Online Help
	🖫 Features View 💦 Content View	
aαy		1

- 3. In the **App_Config Home** panel, double-click **Authentication** to configure the authentication settings for this folder.
- 4. In the Authentication panel, ensure that the Anonymous Authentication is disabled.

🝋 Internet Information Services (IIS) Manag	er			- • •
G Sites	▶ ecmsite.net ▶ App_Config ▶			🔯 🐹 🟠 🔞 🗸
<u>F</u> ile <u>V</u> iew <u>H</u> elp				
Connections	Group by: No Grouping			Actions Enable Edit
→ Join Pools	Name	Status	Response Type	Help Optime Help
Default Web Site	Anonymous Authentication	Disabled		Online Help
 	ASP.NET Impersonation Forms Authentication	Disabled Disabled	HTTP 302 Logi	

- 5. Repeat steps 2-4 for the other folders you want to secure.
- 6. Restart the IIS.



4.4 Microsoft SQL Server Configuration

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

If you have already installed MS SQL and you need to change the security authentication mode, refer to the following article:

http://technet.microsoft.com/en-us/library/ms188670.aspx

Note

It is also possible to use Windows authentication to connect to the SQL server. For more information on connecting to the SQL server, refer to <u>http://msdn.microsoft.com/en-us/library/ff647396.aspx</u>

4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008

This section describes how to create a database account for Sitecore databases under SQL Server 2008 with the minimum required permissions.

- 1. Start SQL Server Management Studio.
- 2. Make sure the Sitecore databases are attached.
- 3. In SQL Server Management Studio, in the Object Explorer pane, expand the Security folder.
- 4. Right-click the Logins folder and click New Login to create a new login.

Select a page	🖾 Script 🔻 🚺 Help				
Server Roles User Mapping Securables Status	Login <u>n</u> ame: <u>W</u> indows authentication	SC user		5	iearch
	SQL Server authentication				
	Password:	•••••			
	Confirm password:	•••••			
	Specify old password				
	<u>O</u> ld password:				
	Enforce password policy				
	Enforce password expiration	tion			
	User must change passv	vord at next login			
	Mapped to certificate			-	
	 Mapped to asymmetric key 			-	
	Map to Credential				Add
Connection	Mapped Credentials	Credential	Provider		
Server:					
Connection					
sa					
View connection properties					
Progress				F	Remo <u>v</u> e
Ready	Default <u>d</u> atabase:	master		-	
	Default language:	<default></default>		-	
				ок с	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.

erecta page PGeneral	Script	▼ 📑 Help				
Server Roles						
Ser Mapping	Users mappe <u>d</u> to this login:					
Securables	Map	Database	User	Default Schema 🔺		
- Status		master				
		model				
		msdb				
		SC100104ECM100331_Analytics				
		SC100104ECM100331Sitecore_Core	SC user			
	V	SC100104ECM100331Sitecore_Master	SC user			
	v	SC100104ECM100331Sitecore_Web	SC user			
		SC100104ECMWIN7_Analytics				
		00100101501010130				
		SC100104ECMWIN/Sitecore_Core		*		
	 Gues 	SC100104ELMWIN/Stecore_Core	e_Core	4		
Connection	 ∢ Gues Database ✓ aspn 	SC100104ECMWIN/Stecore_Core iii account enabled for: SC100104ECM100331Stecore t dembership for: SC100104ECM100331Stecore et_Membership_BasicAccess	e_Core e_Core			
Connection Server:	 ✓ Gues Database ✓ aspn ✓ aspn ✓ aspn ✓ aspn 	SC100104ECMWIN/Stecore_Core III account enabled for: SC100104ECM100331Stecore t gole membership for: SC100104ECM100331Stecore t Membership_FoulAccess t_Membership_FoulAccess	e_Core e_Core	,		
Connection Server: (ocal)	 ✓ Gues Database ✓ aspn ✓ aspn ✓ aspn 	SC100104ECMVIN/Stecore_Core /// // // // // // // // // // // // /	e_Core e_Core	, ·		
Connection Server: (ocal) Connection:	 ✓ Gues Databass ✓ aspn ✓ aspn ✓ aspn ✓ aspn ✓ aspn 	SC100104ECMWIN/Stecore_Core /// t account enabled for: SC100104ECM100331Stecore a role membership for: SC100104ECM100331Stecore at_Membership_FallAccess at_Membership_FallAccess at_Personalization_BasicAccess at_Personalization_FulAccess	e_Core e_Core			
Connection Server: (ocal) Connection: sa	Gues Databass V aspn V aspn V aspn aspn aspn aspn aspn	SC100104ECMWIN/Stecore_Core III t account enabled for: SC100104ECM100331Stecore t demoership for: SC100104ECM100331Stecore t Membership FullAccess et_Membership ReportingAccess et_Personalization_BasicAccess et_Personalization_BasicAccess et_Personalization_ReportingAccess	e_Core e_Core	E		
Connection Server: docal) Connection: sa <u>View connection properties</u>	Gues Databass V aspn V aspn V aspn aspn aspn aspn aspn y aspn y aspn asp	SC100104ECMWIN/Stecore_Core	e_Core a_Core			
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8. In the **Database role membership for** field, select the following check boxes:

For the Master and the Web databases:

- o db_datareader
- o db_datawriter
- o public

For the Analytics database (if you have DMS installed):

- o db_datareader
- o db_datawriter
- o public

For the Core database:

- o db_datareader
- o db_datawriter
- o public
- aspnet_Membership_BasicAccess
- aspnet_Membership_FullAccess
- aspnet_Membership_ReportingAccess
- aspnet_Profile_BasicAccess
- aspnet_Profile_FullAccess



- aspnet_Profile_ReportingAccess
- aspnet_Roles_BasicAccess
- aspnet_Roles_FullAccess
- aspnet_Roles_ReportingAccess
- 9. Click OK to create the user.

4.4.2 Granting Execute Rights to Stored Procedures

To grant execute rights to stored procedures:

1. In the SQL Server Management Studio window, expand Databases.





2. Right-click a Sitecore database and the click **Properties** and the **Database Properties** window appears.

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- 3. In the **Database Properties** window, select the **Permissions** section and select the user that you want to grant rights to.
- 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, including the Analytics database if you have Sitecore DMS installed.



4.5 Oracle Database Storage Setup

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

4.5.1 Oracle Storage Setup

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

Database Server Preparations

Database server must run a supported version of Oracle 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:
- 3. 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.
- 4. 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.

Website Server Setup Instructions

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

1. 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* Error! Reference source not found., Error! Reference source not found.

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).
 - 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.
 - 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.

Configure IIS as for a usual Sitecore installation and run Sitecore.



4.6 Uninstalling Sitecore (ZIP installation)

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 (instancename)"

Remove the Sitecore file system.

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



Chapter 5

Limitations and Specific Requirements

This chapter describes various limitations and environment-specific requirements.

This chapter contains the following sections:

- Maximum Number of Worker Processes
- Miscellaneous



5.1 Maximum Number of Worker Processes

Sitecore does not support configuration when the **Maximum number of worker processes** is set to two or higher. You must set this setting to "1".

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".



5.2 Miscellaneous

This section contains miscellaneous uncategorized requirements.

5.2.1 Install Latest Updates

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

5.2.2 UNC Share Not Supported

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

5.2.3 Sitecore Cannot Operate from a Virtual Directory

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

5.2.4 Install IIS Before Updating .NET Framework

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

If you have installed or updated .NET framework before installing the IIS, refer to the following article that contains instructions about troubleshooting an ASP.NET installation:

http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/187d0e2c-8e89-49ada89d-e26e4d76ee68.mspx?mfr=true



Chapter 6

Post-Installation Steps

This chapter describes the steps that we recommend you to take after installing Sitecore CMS.

This chapter contains the following sections:

- Content Expiration
- Windows Authentication for Sitecore
- Setting Microsoft SQL Server Database Properties
- Rebuild the Search Index and the Link Database
- Cache Configuration



6.1 Content Expiration

Set IIS Expire Web content header to improve performance.

The Expire Web content header (located in common HTTP Response headers) is how IIS determines whether or not to return a new version of the requested web page if the request is made after the web page content has expired. IIS will mark each web page before it's sent using the settings you provide for content expiration. The browser of the website visitor will translate the expiration mark.

By setting Expire Web content to something other than immediately, you can reduce second-access load times by 50 to 70 percent. This setting will not affect dynamically generated content.

To enable the Expire Web content header in IIS 7.x:

- 1. Launch IIS Manager.
- 2. Navigate to the site that you wish to enable the Expire Web content header.
- 3. In the **IIS** section, double click on the **HTTP Response Headers**.





4. In the Actions panel, click on Set common headers...



- 5. Select the **Expire Web content** check box.
- 6. Select the After check box and set the number of days to its default (7).



7. Click **OK** when finished.



6.2 Windows Authentication for Sitecore

You can configure Sitecore to use Windows Authentication for SQL connection (SQL 2008 / Windows 2008 (R2)) and effectively remove the username and password from the connectionStrings.config file.

- 1. Find the application pool that your Sitecore is running under. Open Properties and set the identity to the domain user on the corresponding tab.
- 2. On the SQL Server box, register the domain user and grant security permissions on Sitecore databases for the domain user according to the section "4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008" of the Installation Guide.
- 3. On the machine that hosts Sitecore, add this domain user to the IIS_IUSRS group.
- 4. Adjust the permissions for the IIS_IUSRS group according to these sections of the Installation Guide":
 - o "4.2.2 File System Permissions for ASP.NET Requests"
 - o "4.2.3 File System Permissions for System Folders".
- 5. Edit the /App_Config/ConnectionStrings.config file and replace the user id and password parameters with the trusted connection=yes option:

- 6. Prepare your identity so it can be used as a service account with "aspnet_regiis.exe" and the <u>-ga</u> <u>switch</u>.
- 7. Add your domain service account to the local "Performance Monitor Users" group as per this section: "4.2.5 Windows Registry Permissions"

Note

If you use DMS, the same configuration must be repeated for the Analytics database. The connection string for the Analytics database must be follows:

<add name="analytics" connectionString="Data Source=<Data-Source>;Database=Sandbox6 Analytics;Trusted Connection=Yes" />



6.3 Setting Microsoft SQL Server Database Properties

There are a few Microsoft SQL Server database properties that, when configured correctly, will help increase performance:

Compatibility Level

Compatibility Level effects SQL syntax and query parsing, and should have no impact of performance. Setting the Compatibility Level to a value of *SQL Server 2008(100)* will take advantage of new T-SQL features, which are used in many of the scripts / commands.

Auto Close

When MS SQL Server opens a database, resources are allocated to maintain that state. Memory for locks, buffers, security tokens, etc. are all assigned. These operations take time. The *Auto Close* property defines how these resources are handled. If it is set to *true* or *ON*, then when the last connection is closed these resources are deallocated. If a new connection comes in within a short period of time (1/10th of second or quicker), then all of those resources need to be activated again. Setting the *Auto Close* property to *false* or *OFF* will prevent this from happening.

Auto Shrink

The Auto Shrink property uses a lot of resources when it's called, and you have no control over when it is being called. If you combine *Auto Shrink* with *Auto Growth*, you can get into a spiral of constantly growing and shrink the database, taking valuable resources away from other database tasks as well as causing fragmentation issues. If a database or file requires a SHRINK command, it should be done so via a script, command or scheduled Maintenance Plan. Setting the *Auto Shrink* property to *false* or *OFF* will disable this feature.

Recovery Model

In Simple Recovery Model MS SQL Server logs minimal amount of information in the transaction log. MS SQL Server basically truncates the transaction log whenever the transaction log becomes 70 percent full or the active portion of the transaction log exceeds the size that MS SQL Server could recover in the amount of time which is specified in the Recovery Interval server level configuration. Setting Recovery Model to Simple has the lowest amount of overhead over Full and Bulk-logged, which is crucial to the performance requirements needed for the Sitecore CMS databases.

To set these properties:

- 1. Launch MS SQL Server Management Studio.
- 2. In the object explorer, right click on the CMS Master database and select Properties.



3. Select the **Options** page and set the parameters as it is presented on the following image:

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	Compatibility layel:	SOL Server 2009 (100)	
Extended Properties	Compatibility jevel.	JGL Jeivel 2000 (100)	
	Other options:		
	Automatic		*
	Auto Close	True	
	Auto Create Statistics	True	
	Auto Shrink	False	
	Auto Update Statistics	True	
	Auto Update Statistics Asynchron	ously False	E
	Cursor		
	Close Cursor on Commit Enabled	False	
	Default Cursor	GLOBAL	
	Miscellaneous	-	
Connection	ANSI NULL Default	False	
S	ANSI NULLS Enabled	False	
Server: WS-FLY	ANSI Padding Enabled	False	
-	ANSI Warnings Enabled	False	
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- 4. In the Compatibility Level field, select SQL Server 2008(100).
- 5. Set the **Auto Close** property to **false**.
- 6. Set the **Auto Shrink** property to **false**.
- 7. In the Recovery Model field, select Simple
- 8. Click OK.

Repeat these actions for the CMS Core and Web databases.



6.4 Rebuild the Search Index and the Link Database

Follow these instructions only if you install Sitecore using the ZIP archive of the Web site root.

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

Rebuilding the Search Indexes

To rebuild the Search Index, log in to the Sitecore Desktop, click *Control Panel*, and then click *Indexing*. In the *Indexing Manager*, you can choose which database indexes you want to rebuild.

Rebuilding the Link Database

To rebuild the Link Database, log in to the Sitecore desktop and click *Control Panel, Database, Rebuild the Link Database.* Select all available databases.



6.5 Cache Configuration

When Sitecore CMS is installed, optimize caching to improve solution performance, reduce server load, and increase system capacity.

For more information about cache configuration, see Cache Configuration Reference on SDN.



Chapter 7 Appendix

This chapter contains the supplementary instructions that help you to configure your environment.

This chapter contains the following sections:

- Server Configuration •
- Creating a Web Project in Visual Studio ٠



7.1 Server Configuration

The following sections contain miscellaneous information and techniques concerning the server configuration.

7.1.1 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.
- 4. In the **Security** tab, click **Advanced**.
- 5. In the **Advanced Security Settings** dialog box, select the **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 Organize, Folder and search options.
- 2. In the **Folder Options** dialog box, click the **View** tab.



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

If an account is not visible in the Security tab, you must make it visible.

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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, and click Check Names.

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



7.2 Creating a Web Project in Visual Studio

Sitecore supports the Visual Studio Web Application project model for Sitecore solutions.

Important

Create a Visual Studio solution and at least one project for each Sitecore solution that uses Visual Studio. Follow the steps outlined below as a single sequence once for each new Sitecore solution, then add new projects to the existing solution as appropriate.

To create a Visual Studio Web Application project for an existing Sitecore solution:

- 1. In Visual Studio, click the **File** menu, then click **New**, and then click **Project**. The new project dialog appears.
- 2. In the new project dialog, in the **Project Types** tree, expand **Visual C#**, and then click **Web**.
- 3. In the new project dialog, in the Templates list, click ASP.NET Web Application.
- 4. In the new project dialog, select the version of the .NET Framework. While installing Sitecore CMS, in the **IIS Website** step you selected the version of the .NET Framework: 4.5.
 - Select .NET Framework 4 in the Visual Studio project.
- 5. In the new project dialog, in the **Name** field, enter the name of the project, for example MyWebSite. Visual studio will use this name as the default .NET namespace and assembly name.
- 6. In the new project dialog, in the Location field, enter the document root of the Sitecore solution, for example C:\inetpub\sitecore\MyWebSite\WebSite.
- 7. In the new project dialog, in the **Solution Name** field, enter the name of the solution, which is typically the name of the project, for example MyWebSite.
- 8. Select the Create directory for solution check box.
- 9. Click **OK**. Visual Studio creates the project in a subdirectory of the directory specified by **Location**, and then opens that project.
- 10. In Solution Explorer, right-click References and click Add Reference.
- 11. Click the Browse tab and select the Sitecore.Kernel.dll file, and then click OK.
- 12. 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:

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



14. You must now include the files you want to edit. For example, right-click the XSL folder and click *Include in Project.*

Sitecore CMS 7.1 Installation Guide



15. Finally, double click the files themselves to edit them.