HOWTO: Installation of Microsoft Office SharePoint Server 2007

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Change log:

Version	Date	Editor	Description
1.0	March 6th 2007	Yorick Kuijs	First version
1.5	July 27th 2007	Yorick Kuijs	Corrected error, updated to SQL SP2 and added extra customizations
1.6	November 23rd 2007	Yorick Kuijs	Added extra configuration steps and installation of Public Update of October 9th
2.0	June 3rd 2008	Yorick Kuijs	Added .NET and MOSS Service Packs

Prerequisites

- Windows Server 2003/ Windows Server 2003 R2
  - Any edition will do, but with web edition functionality is limited
- Internet Information Server 6 (IIS6)
- .NET Framework 3.0
- SQL Server 2000 SP4 or SQL Server 2005 SP2 (Recommended)
- Active Directory (if you want to create a server farm)
- 1 Service account for SQL Server
- 6 Service accounts for SharePoint:
  - Configuration database account
  - Search service account
  - Index service account
  - Shared service provider account
  - Shared service provider Web application account
  - Web application account

NOTE: Perform installation using a user account which has administrative privileges.

Step -1: Do I need an Active Directory

Microsoft Office SharePoint Server 2007 only requires an Active Directory when you use more than one server. The servers then need to communicate with each other using central user accounts.

When you are just installing one server, an Active Directory is not required. All accounts can be created on the local server. When installing a server in a corporate network, often an Active Directory is already present. If so, create the accounts in the Active Directory. This ensures that MOSS2007 has access to the Active Directory if you want to use profile import.

So if you are creating a single server farm installation in (for example) Virtual PC, you do not need an Active Directory. But if you want to use one of the following functionalities you do need to configure an Active Directory:

- Use Profile Import.
- Install Microsoft Exchange to be able to send alerts.

Step 0: Install OS, including all Service Packs and patches

NOTE: SQL Server 2005 requires Windows Server 2003 SP1

Step 1: Create required Service Accounts

The required accounts can be configured as regular Domain Users.

Account name	Purpose
sa_MOSS2007	MOSS Configuration Database Account
sa_MOSS2007Crawl	MOSS Content Access Account
sa_MOSS2007Search	MOSS Search Account
sa_MOSS2007SQL	MOSS SQL Service Account
sa_MOSS2007SSP	MOSS Shared Services Provider Account
sa_MOSS2007SSPwebapp	MOSS Shared Services Provider Web Application Account
sa_MOSS2007webapp	MOSS Web Application Account

Step 2: Create DNS hostnames

- If you have a DNS infrastructure (when in corporate network or with Active Directory present), you have to create DNS hostnames.
- If you do not have a DNS infrastructure, you have to create the hostnames in the local hosts file.

Host name	Purpose
sharedservices.<domainname>	Hosts MOSS2007 Shared Services
mysite.<domainname>	Hosts MySites
portal.<domainname>	Hosts a portal
teamsite.<domainname>	Hosts teamsites

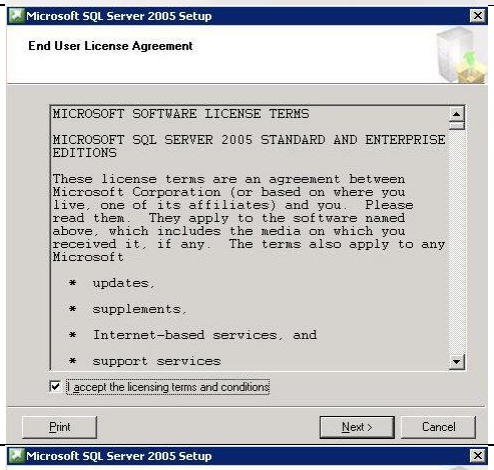
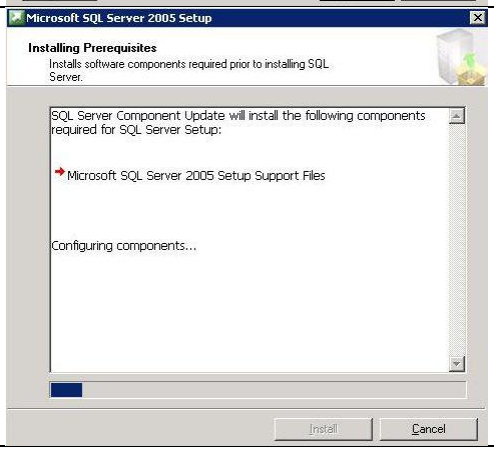
In the DNS: All hostnames are CNAMES (Canonical Names or Aliases) of the MOSS web server.

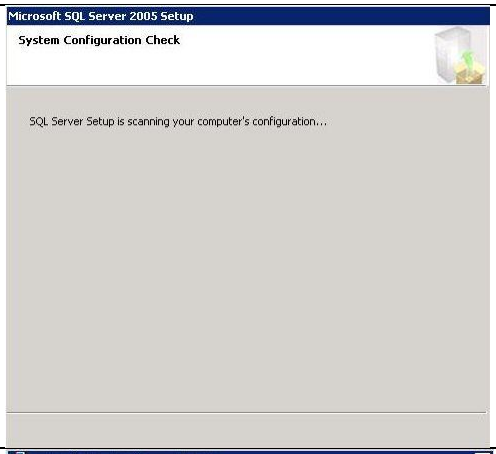
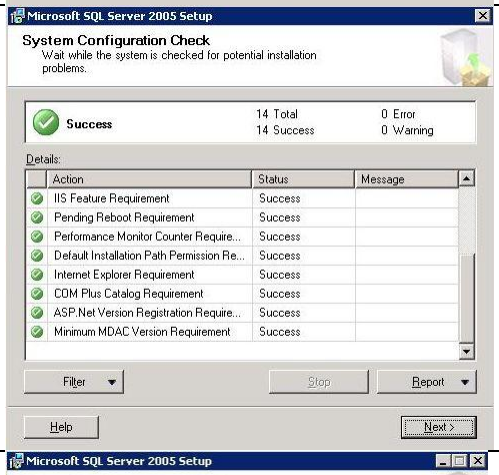
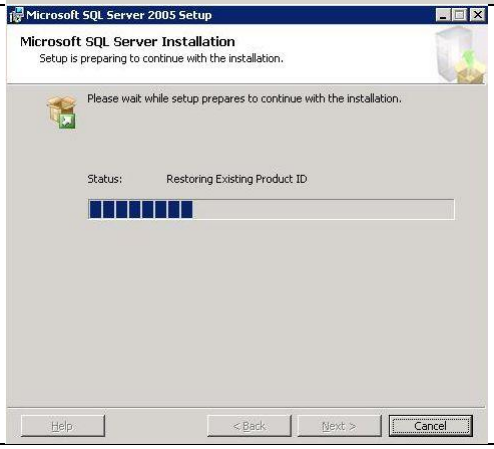
Step 3: Install IIS + ASP.NET

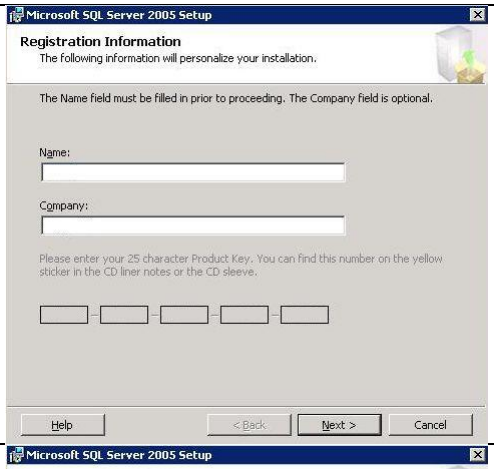
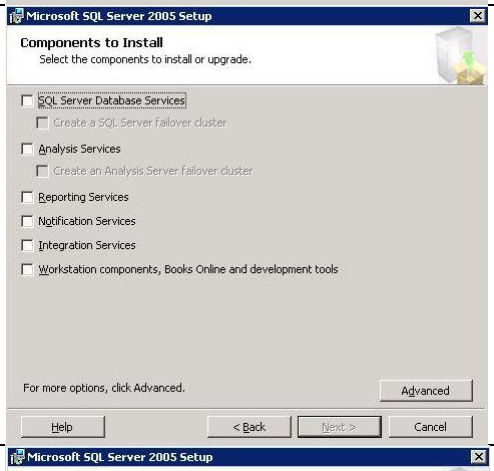
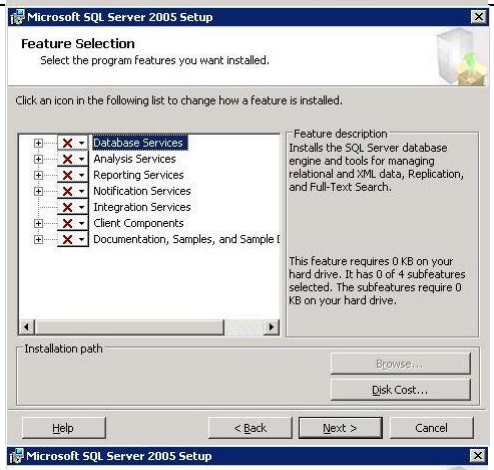
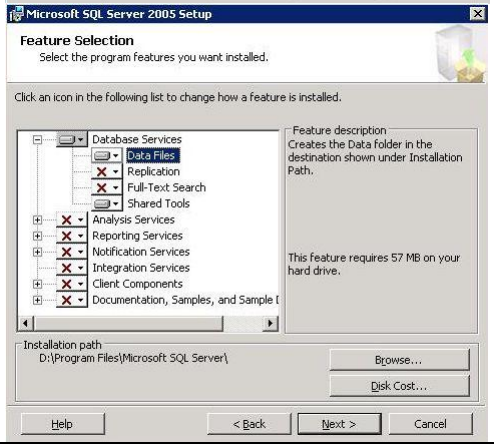
Start > Settings > Control Panel > Add/Remove Programs >Add/Remove Windows Components or use script which you can download from:
http://www.xs4all.nl/~ykuijs/iis6inst.zip
This script will install IIS 6 and place the InetPub directory on the D drive, something you cannot do via the GUI.

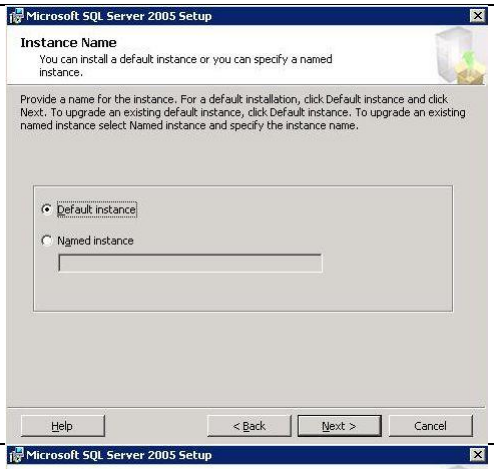
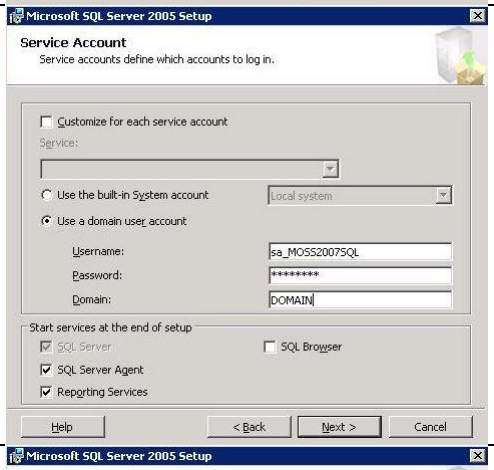
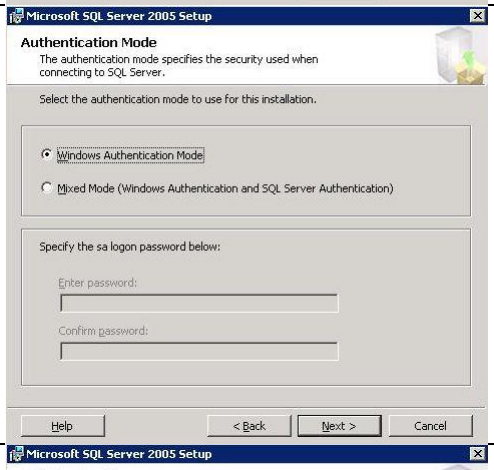
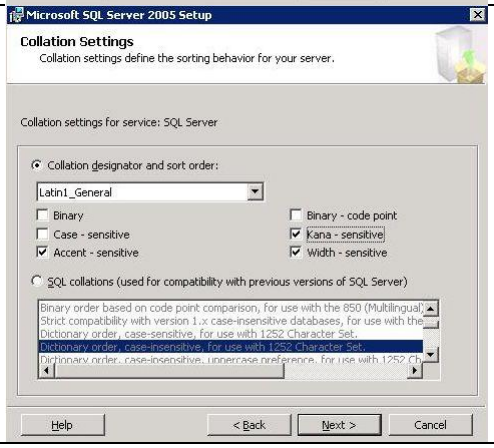
Step 4: Install SQL Server

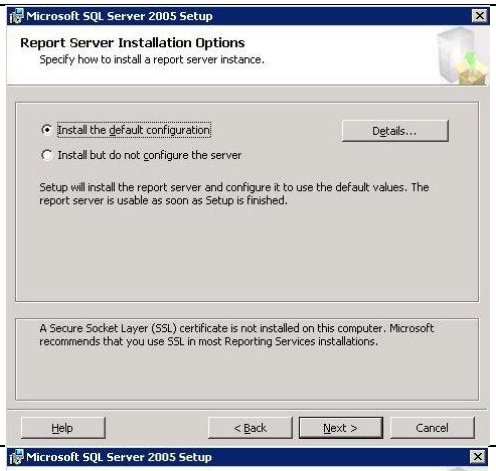
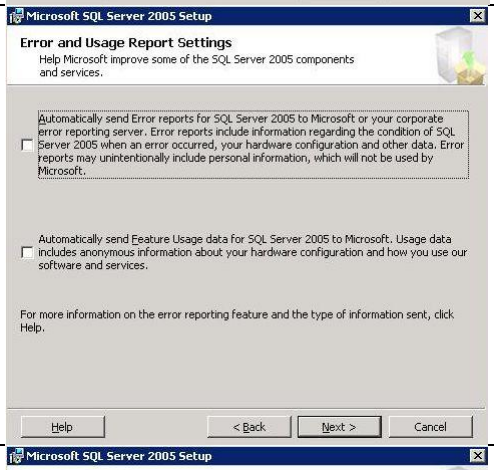
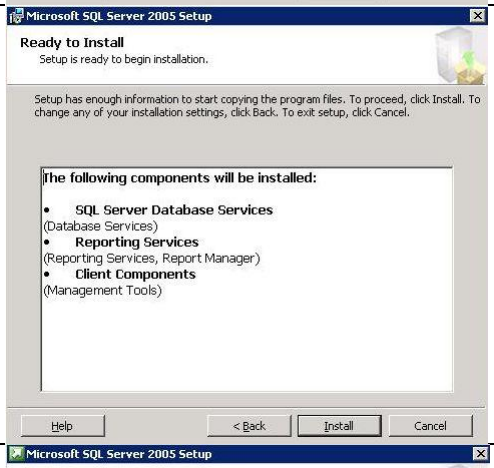
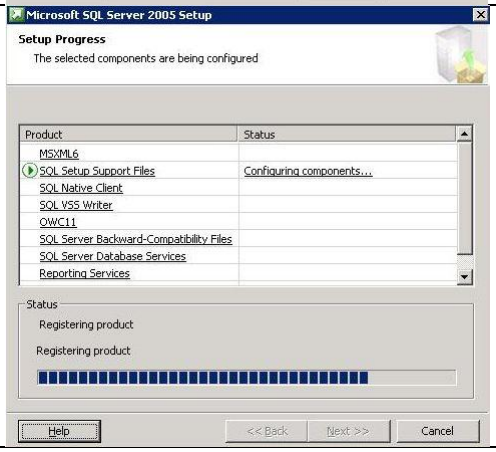
SQL Server 2005 will be used. This requires Windows Server 2003 Service Pack 1 to be installed. Install this Service Pack and all missing patches.

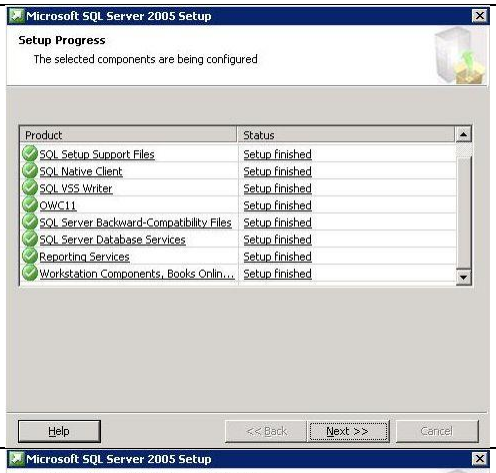
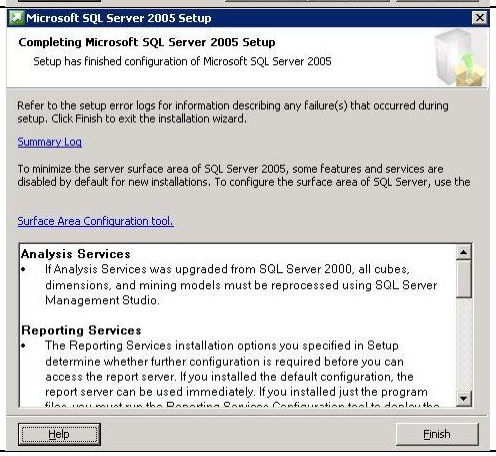
Step	
Start the installation by placing the DVD into the DVD drive. The splash screen will start. Click “Server components, tools, Books Online and samples” under “Install”.	
Accept the license agreement and click “Next”.	
Setup will install some required components.	

	
Click “Next”	
Setup will perform a system configuration check. When finished, see if any major errors are found. If not, click “Next”	
Setup will perform some more checks	

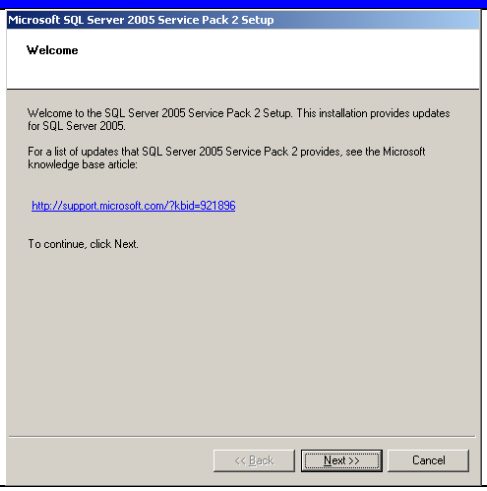
Enter Name and Company	
On the “Components to Install”, click “Advanced”	
On the Feature selection page, select the following components: - Database Services o Data Files o Shared Tools - Reporting Services o Report Manager o Shared Tools - Client Components o Connectivity Components o Management Tools Change the installation path for the Data Files to D:\Program Files\Microsoft SQL Server\ by clicking “Browse” and changing the default path. Click “Next”	 

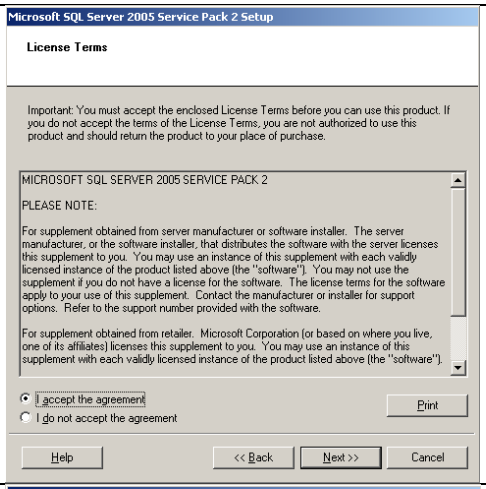
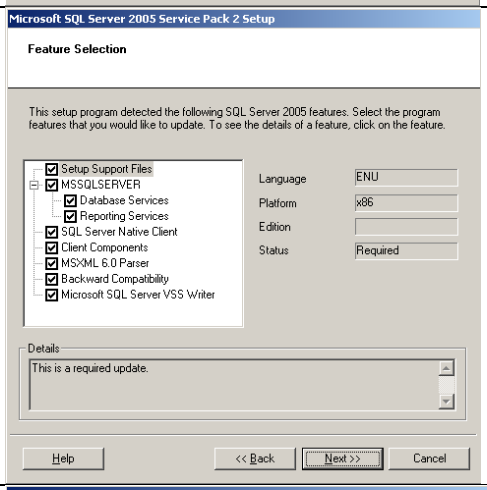
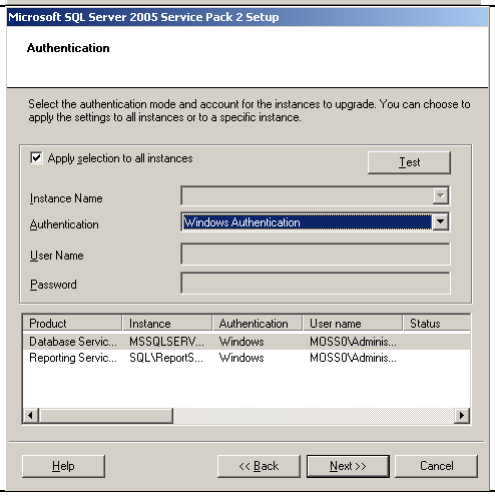
Install Default Instance Click “Next”	
Enter the credentials for the SQL service account and select the checkbox SQL Server Agent. Click “Next”	
Leave “Authentication Mode” default and click “Next”	
IMPORTANT: Select collation as: - Latin1_General - Accent - sensitive - Kana - sensitive - Width - sensitive Click “Next”	

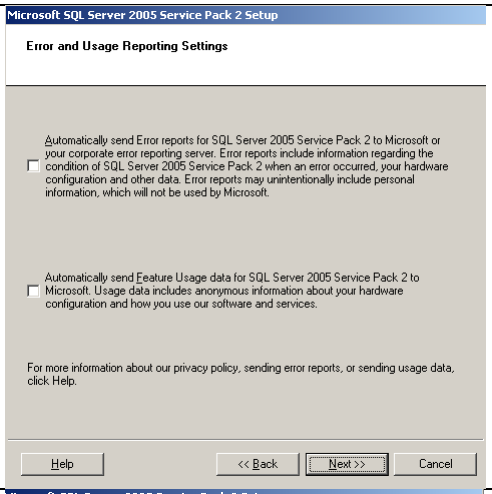
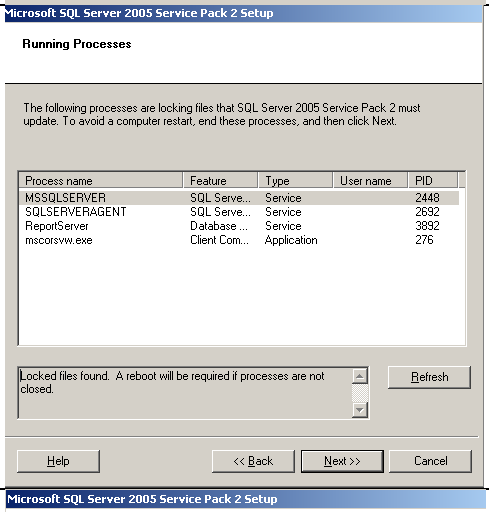
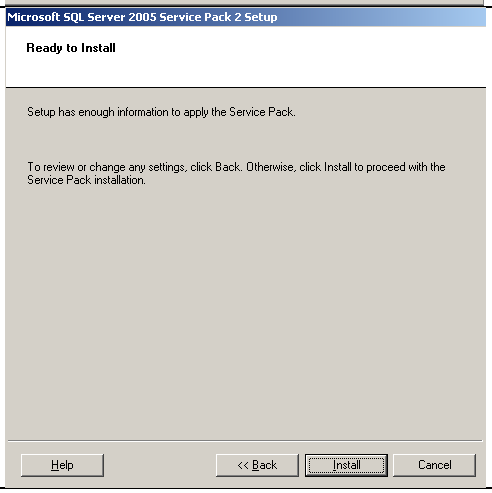
Leave “Report Server Installation Options” default and click “Next”	
If you like to send error reports to Microsoft, select the appropriate options and click “Next”	
Review the displayed options and click “Install” if ok.	
Setup will start installing SQL Server 2005.	

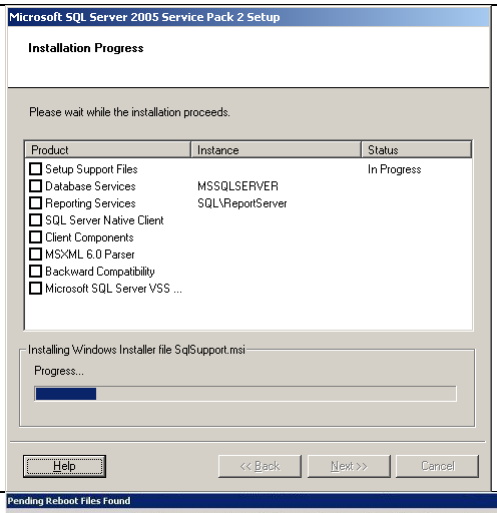
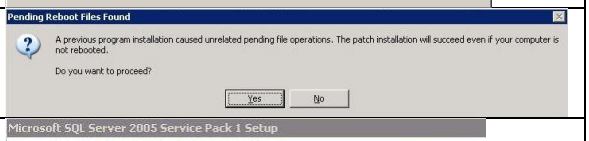
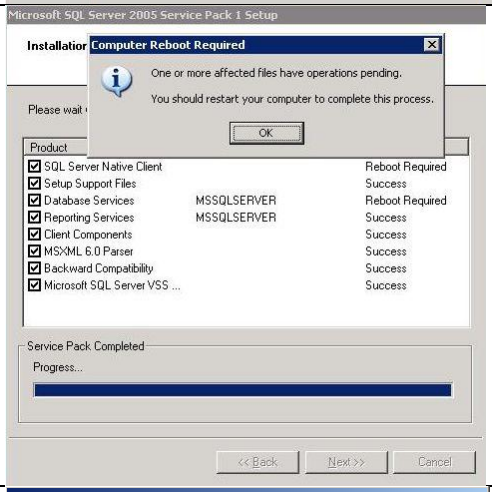
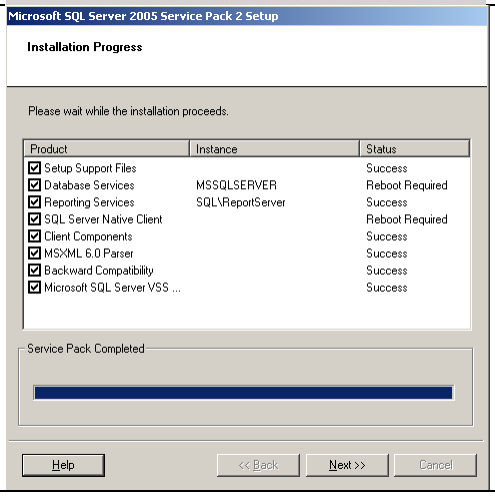
If finished, click “Next”	
Click “Finish”	

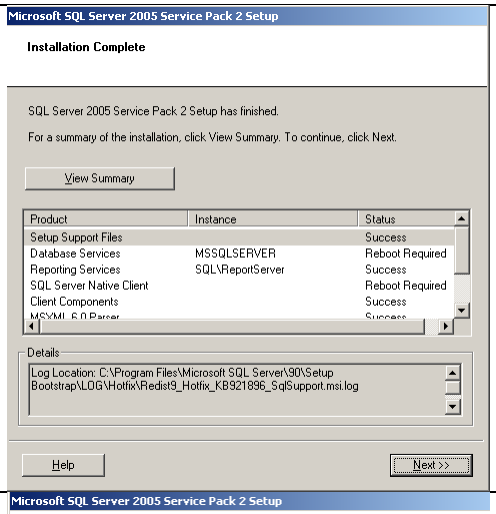
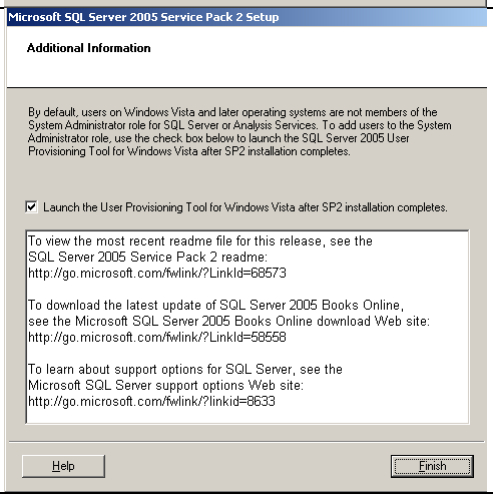
Step 5: Install SQL 2005 SP2

Step	
Start the setup package	

Select the checkbox “I accept the licensing terms and conditions” and click “Next”	
Accept the default settings and click “Next”	
Accept the default settings and click “Next”	

Accept the default settings and click “Next”	
Close all programs which are locking files to prevent a reboot or continue and reboot after installation. Click “Next”	
Click “Install”	

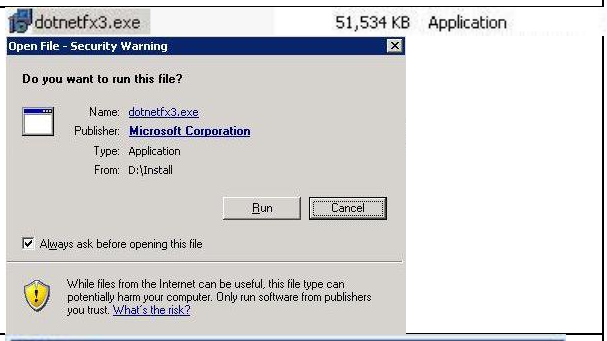
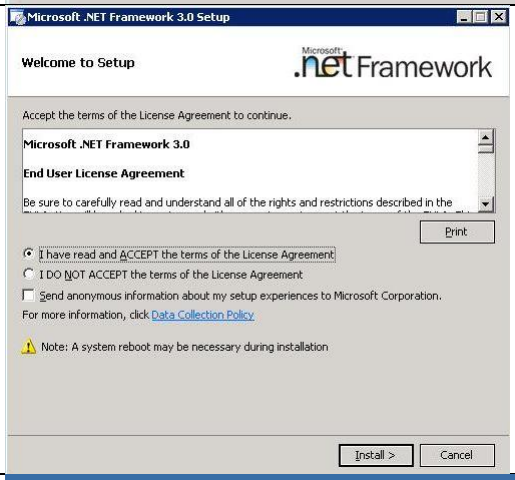
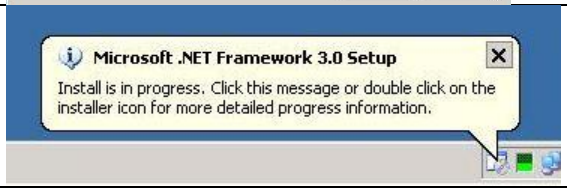
Installation will start.	
This error might occur, indicating that files are in use and a reboot must be performed after install. Click “Yes” to proceed.	
After installation, the message “One or more affected files have operations pending. You should restart your computer to complete the process.”. Press Ok.	
Click “Next”	

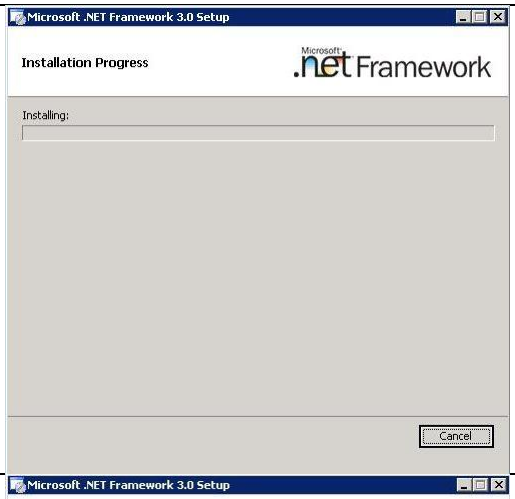
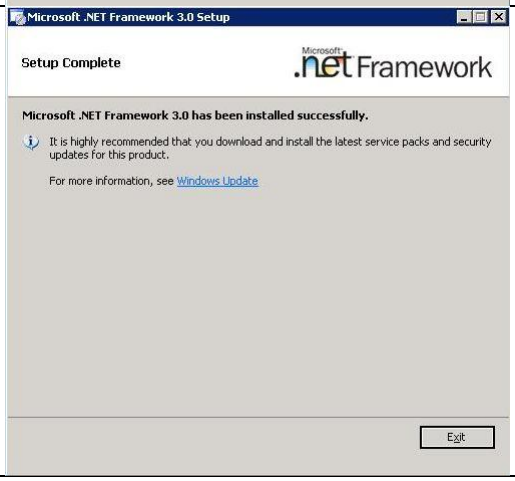
Click “Next”	
Click “Finish” and reboot the server.	

Step 6: Install SQL Server 2005 SP2 Cumulative Update Pack 7

Step	
Request the SQL Server 2005 SP2 Cumulative Update Pack 7 from the Microsoft site More info: http://support.microsoft.com/kb/949095	https://support.microsoft.com/contactus/emailcontact.aspx?scid=sw;[LN];1414&from=KBHotfix&WS=hotfix
After downloading the Update Pack, install it on the SQL Server.	

Step 7: Install .NET Framework 3.0

Step	
Download the .Net Framework 3.0 from the Microsoft site. x86 version (32 bit): http://go.microsoft.com/fwlink/?LinkId=70848 x64 version (64 bit): http://go.microsoft.com/fwlink/?LinkId=70849	
Start the dotnetfx3.exe file you have just downloaded. Click “Run”	
Setup starts loading installation components.	
Read and accept the license agreement and click “Install”	
The setup minimizes to the system tray and a balloon pops up. Click the balloon to monitor the installation.	

Setup proceeds the installation	
After installation, click “Exit”	

Step 8: Install MOSS2007

You are now ready to install Microsoft Office SharePoint Server 2007

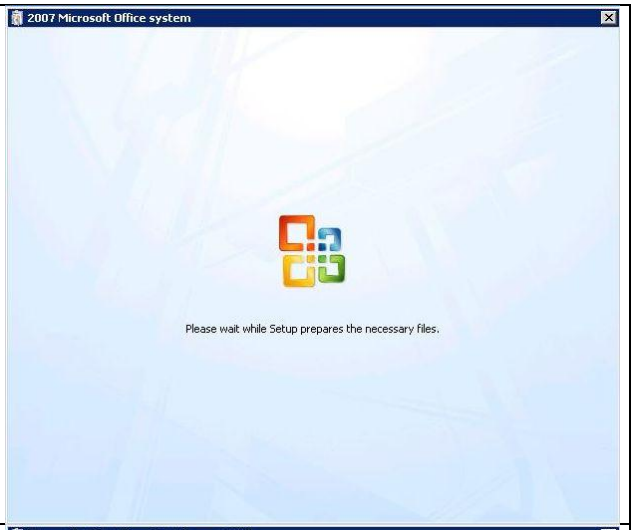
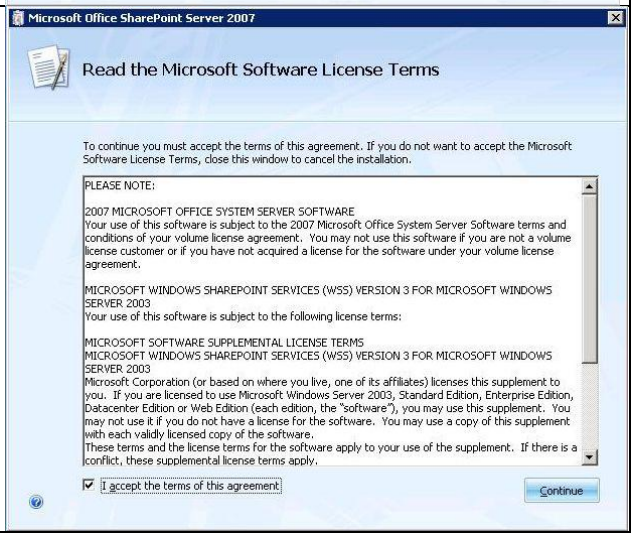
NOTE: Download setup files which include SP1:

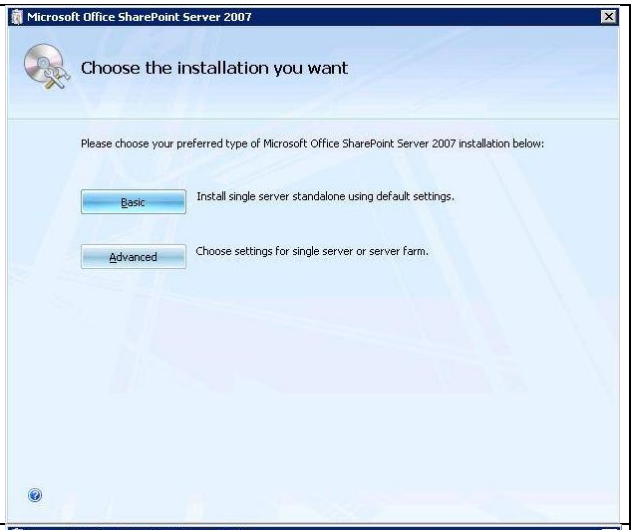
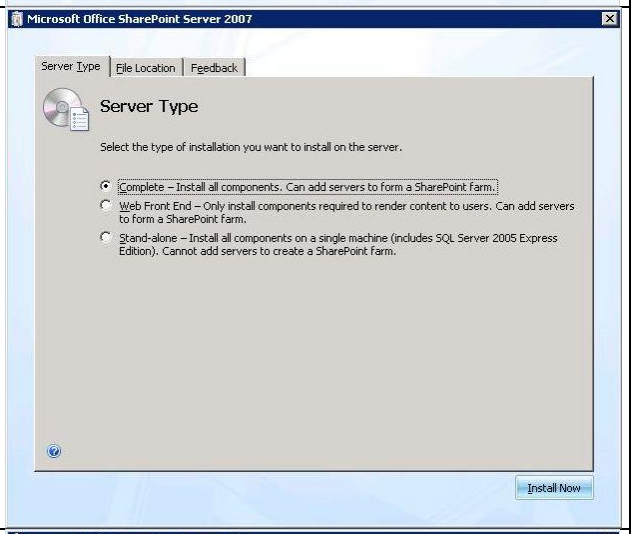
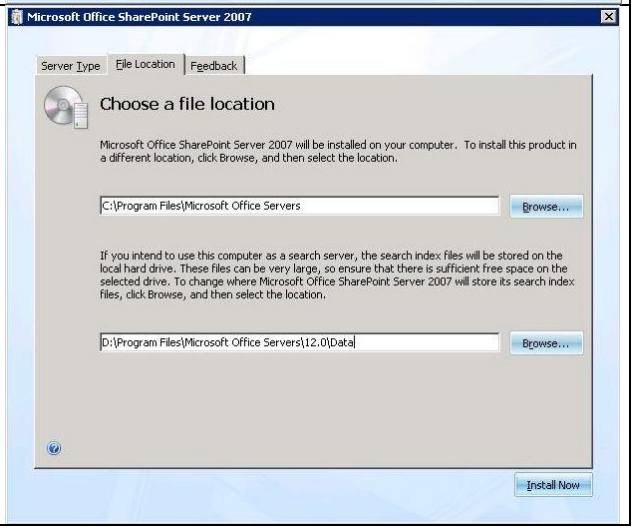
Office SharePoint Server 2007 with SP1 (32 bit)
http://www.microsoft.com/downloads/details.aspx?FamilyId=2E6E5A9C-EBF6-4F7F-8467-F4DE6BD6B831&displaylang=en

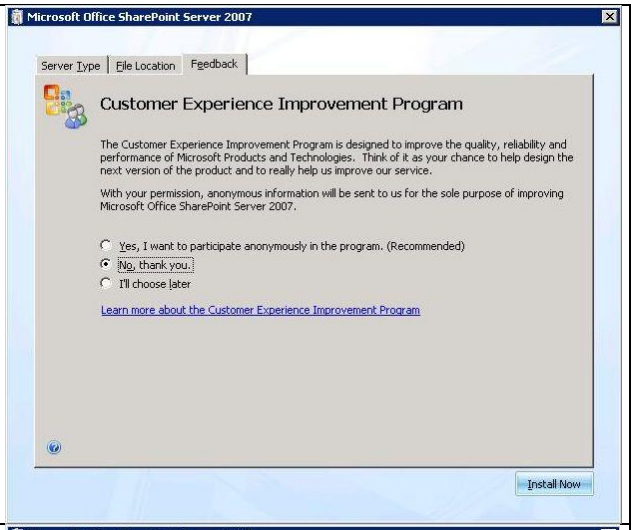
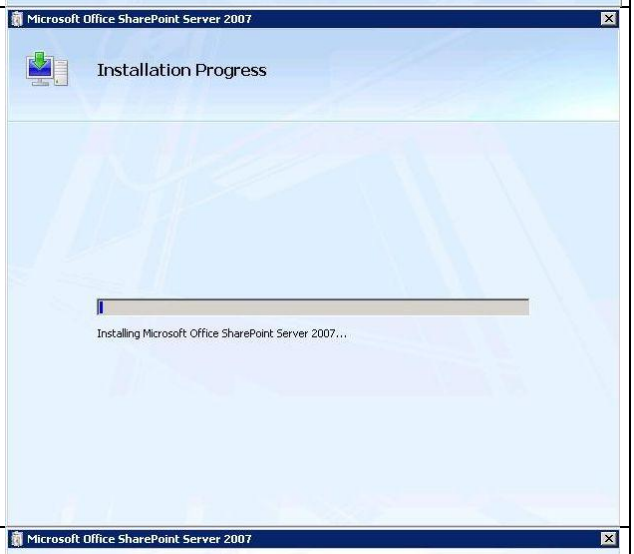
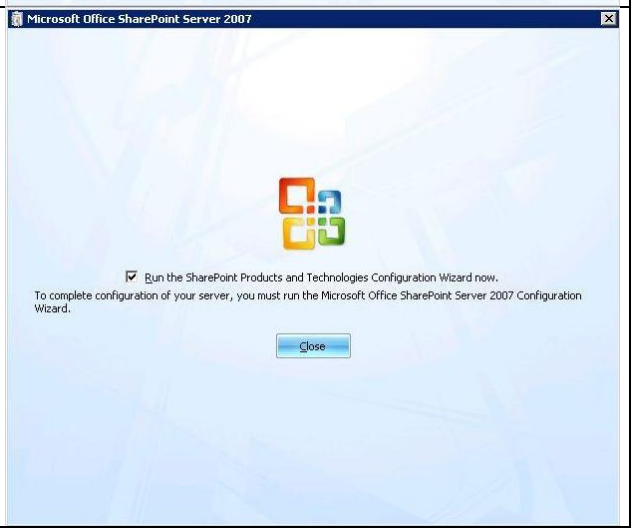
Office SharePoint Server 2007 with SP1 (64 bit)
http://www.microsoft.com/downloads/details.aspx?FamilyId=3015FDE4-85F6-4CBC-812D-55701FBFB563&displaylang=en

Or create your own slipstream setup (See Appendix 1).

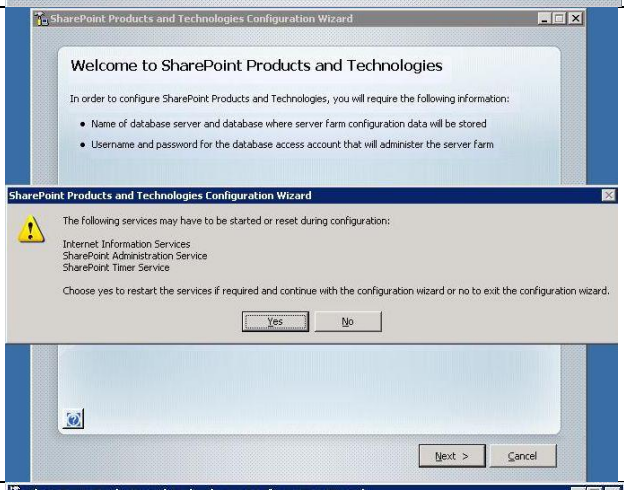
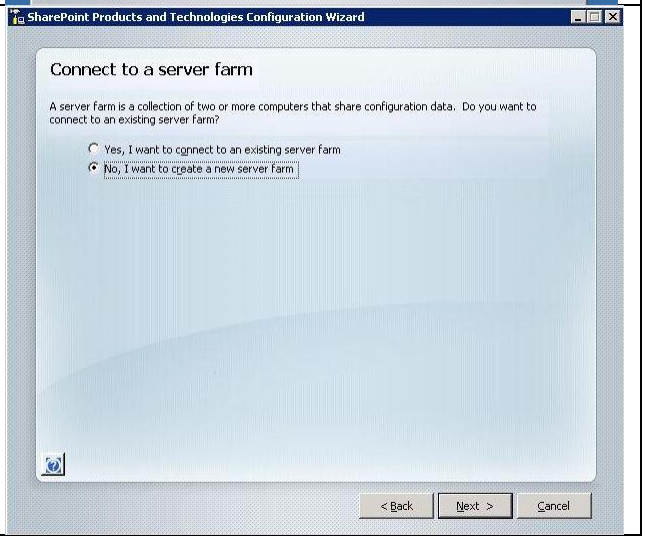
Step	

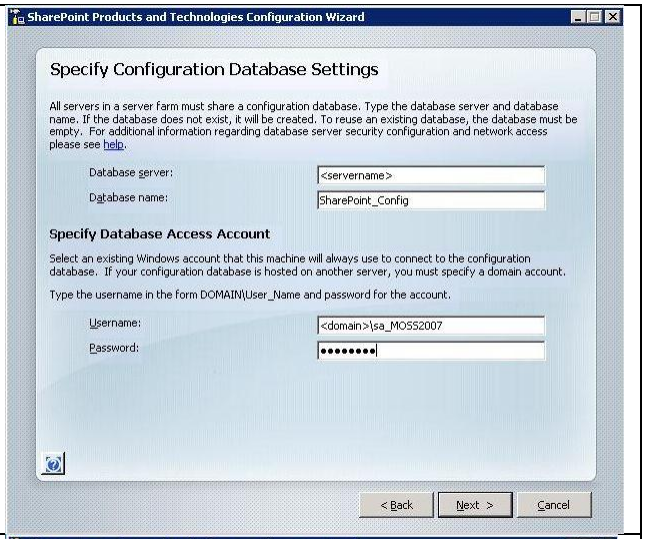
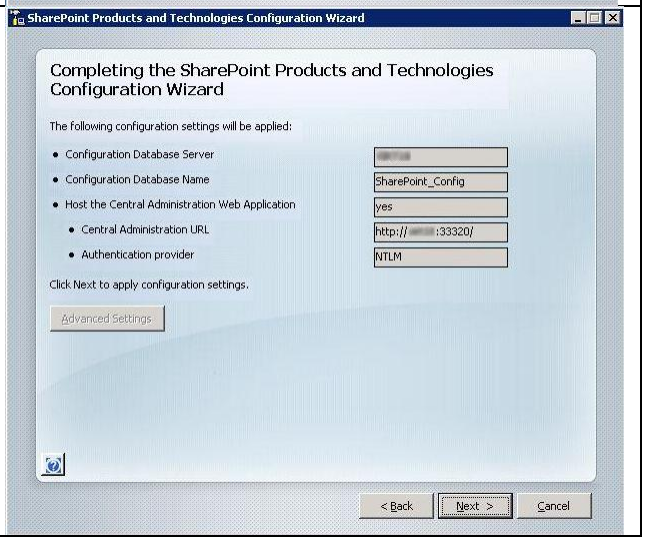
Start installation	
Enter the Product Key	
Read and accept the License Agreement and click “Continue”.	

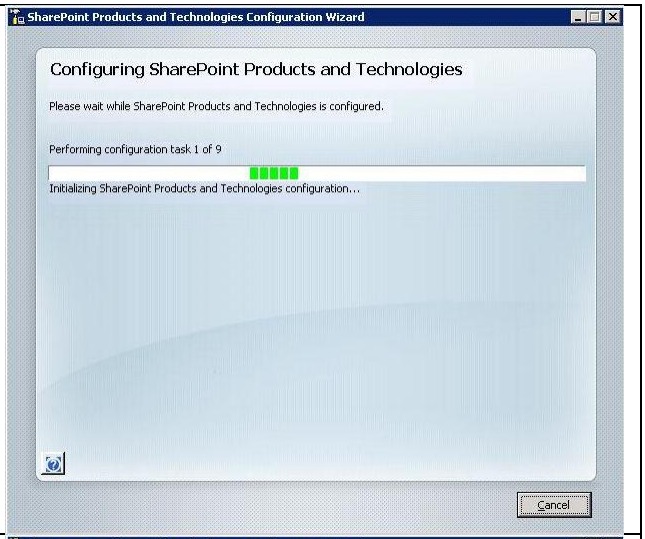
Click “Advanced” to install Office SharePoint Server 2007 using custom settings. NOTE: Basic install uses SQL Express and default settings. If you want to use SQL Server 2005 Standard/Enterprise or do not want to use default settings, choose Advanced.	
Choose “Complete” as the “Server Type”. NOTE: Differences between settings: - Complete will install all Office SharePoint Server 2007 binaries on the server. - Web Front End will install only the binaries needed for the web server role. It is not possible to run any other roles that web server on this server. - Stand-alone will install all binaries and SQL Server 2005 Express Edition.	
Change the Data directory (bottom setting) to “D:\Program Files\Microsoft Office Server\12\Data”	

Select if you want to participate in the “Customer Experience Improvement Program” and click “Install Now”	
Setup will now install Microsoft Office SharePoint Server 2007.	
After install, setup asks if you want to proceed with configuring the just installed MOSS installation. Click “Close”	

Step 9: Run the MOSS2007 Configuration Wizard

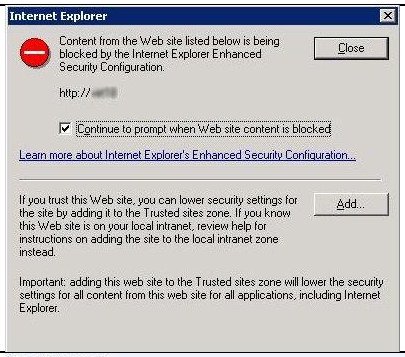
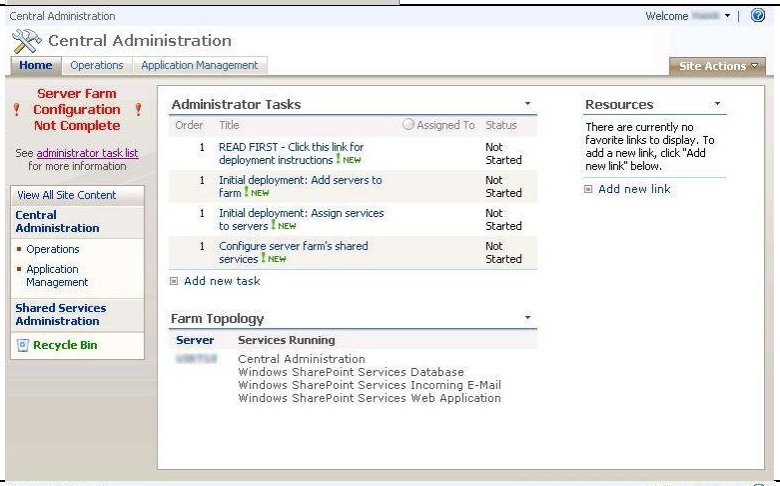
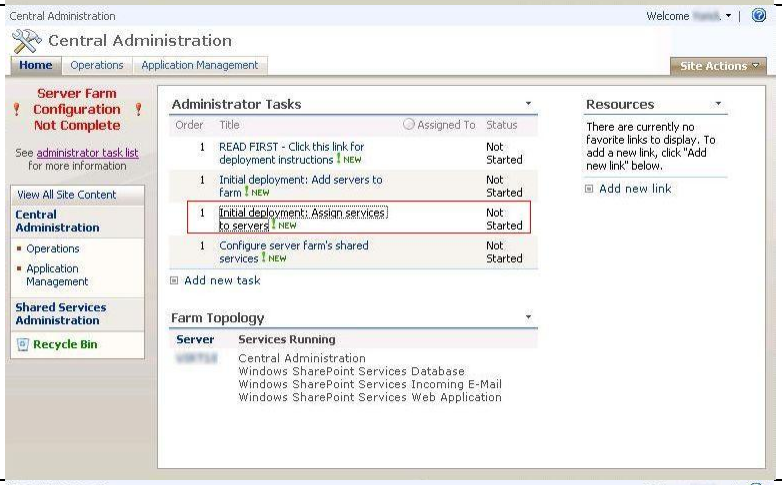
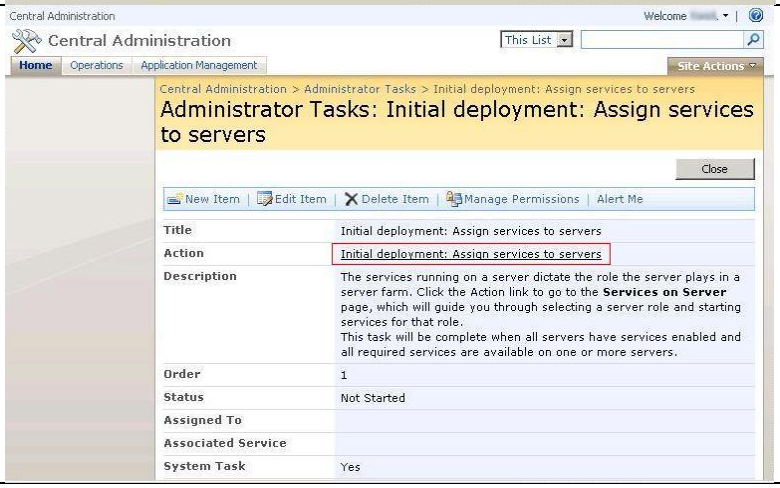
Step	
The “SharePoint Products and Technologies Configuration Wizard” starts. Click “Next”	
A message is shown which states that several services will be restarted during configuration. Click “Yes”	
We would like to create a new farm. Select “No, I want to create a new server farm” and click “Next” NOTE: If this is not the first server in the farm, select “Yes, I want to connect to an existing server farm” and select the configuration database.	

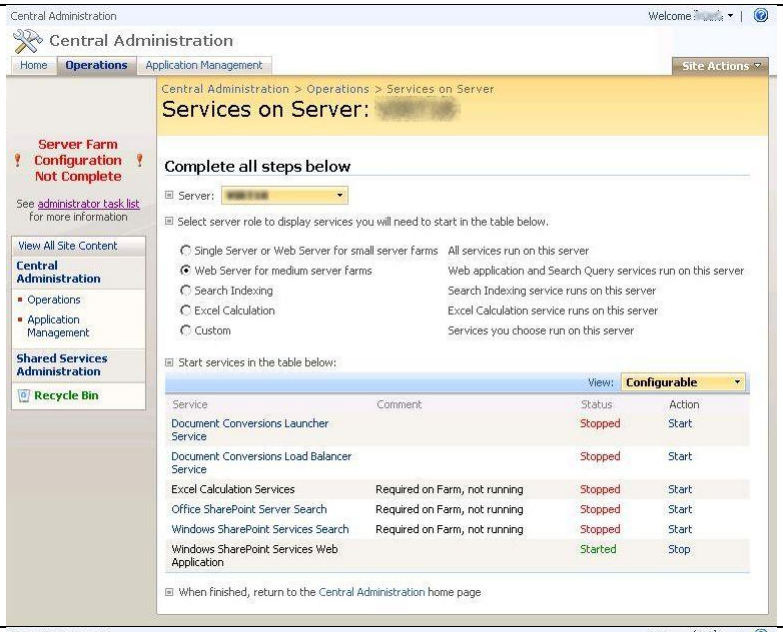
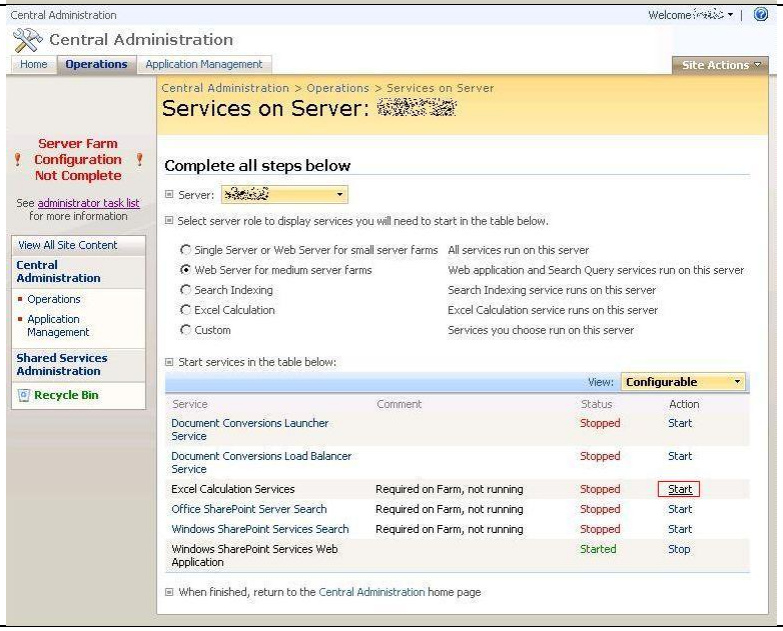
Enter the following information in the "Specify Configuration Database Settings" page: - Database server: database server name - Database name: Can leave default ("Sharepoint_Config") At "Specify Database Access Account" enter the Configuration Database account: - Username: <domain>\SA_MOSS2007 - Password: <password>	
On the "Configure Sharepoint Central Administration Web Application" page leave everything default and click "Next". NOTE: If you want the Central Admin to be configured on a certain port, select the "Specify port number" box and enter the desired port. NOTE 2: Default authentication provider is NTLM. This is the easiest to configure, but causes more load on Domain controllers. Kerberos requires extra configuration.	
Review settings and click "Next" to start configuration.	

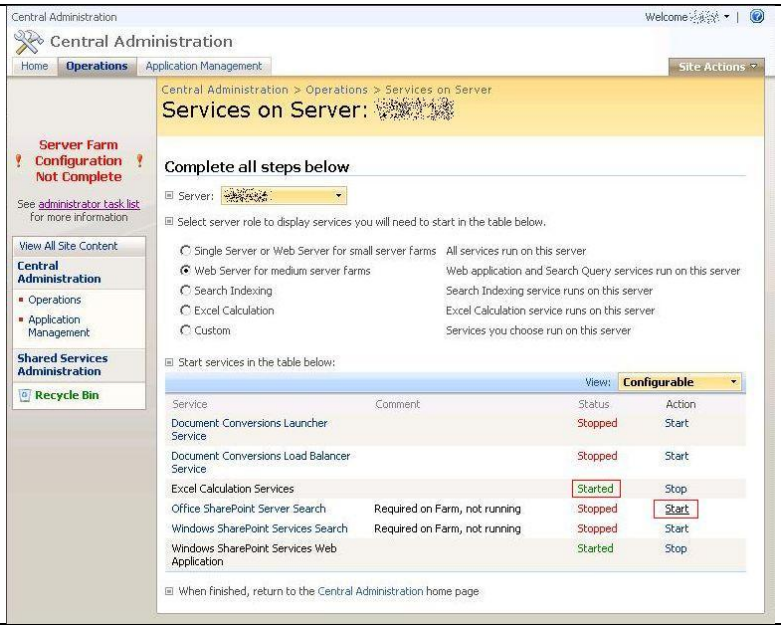
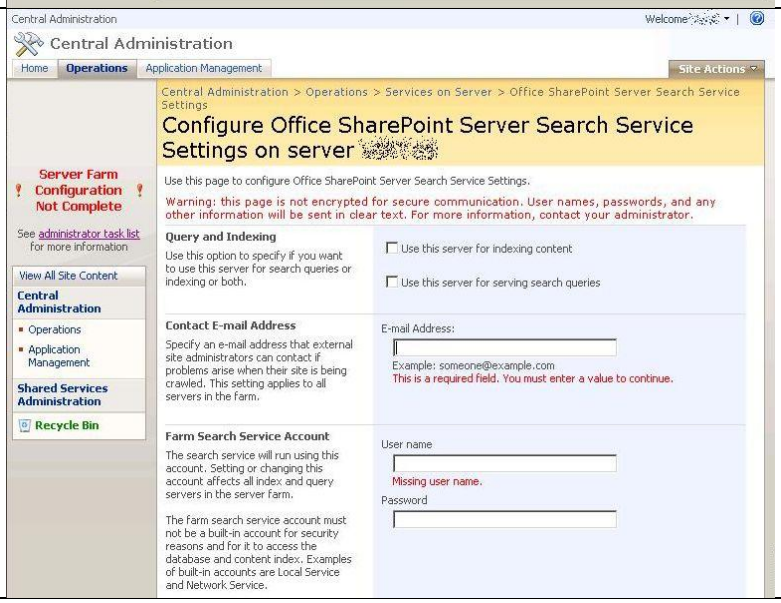
The wizard starts the configuration.	
After the configuration is finished click “Finished”.	

Step 10: Configure the MOSS2007 server farm

Step	
After clicking “Finished”, setup opens the Central Administration page. You have to log into this page using credentials which have Administrator privileges.	

If the server has “Internet Explorer Enhanced Security Configuration” enabled, this message will be show. Add the admin site to the Trusted Sites zone by clicking the “Add” button.	
The Central Administration site is opened. In the “Administrative Tasks” four tasks are shown. The first is just a readme. The second task states that more servers must be added to the farm (if necessary) before continuing with the next step.	
In this scenario we choose the third step “Initial Deployment: Assign services to servers”	
Click the link behind “Action” to start the task.	

All available services are show and depending on the role of the server you can start services. In this case we have to start all services on the same server, the current server.	
Click “Start” behind the “Excel Calculation Services”. The service will be started. Start services - Excel Calculation Service - Office Sharepoint Server Search Server - Windows Sharepoint Service Search	

The component “Excel Calculation Services” has started. Now click “Start” behind the “Office SharePoint Server Search” component.	
This component has to be configured before it is able to start.	

Enter the following information:
Query and Indexing:
- Select “Use this server for indexing content”
- Select “User this server for serving search queries”

Contact E-mail Address:
- Enter a administrator e-mail address.

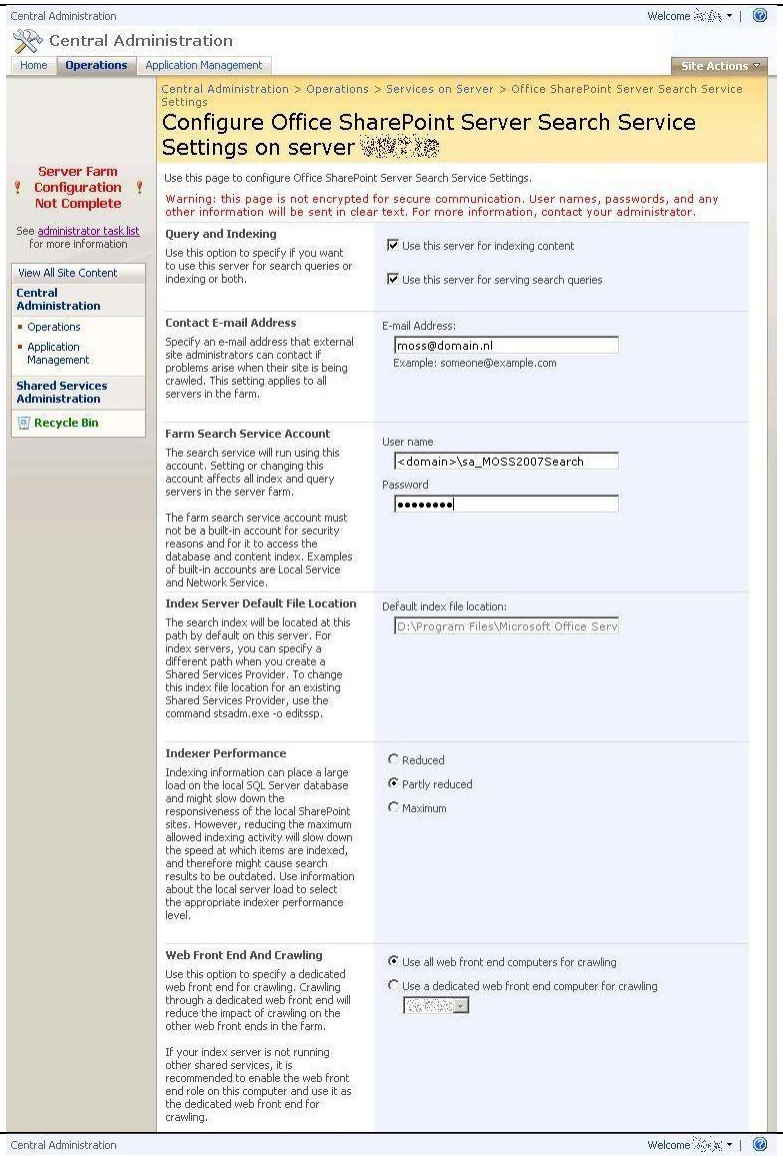
Farm Search Service Account:
- Enter domain\sa_MOSS2007Search as account.
- Enter the configured password in the password field.

Index Server Default File Location:
- Leave default

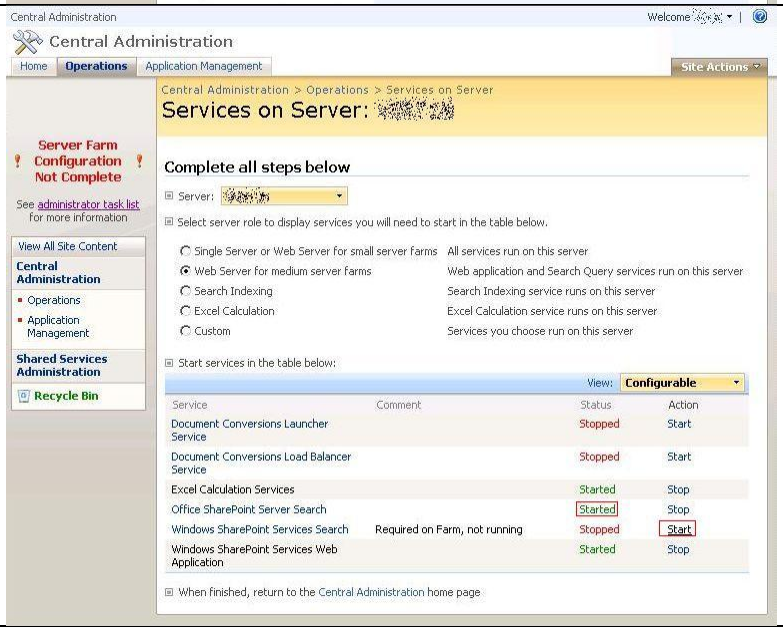
Indexer Performance:
- Leave default

Web Front End And Crawling:
- Leave default

Click “Start”



The component “Office SharePoint Server Search” has started. Now click “Start” behind the “Windows SharePoint Services Search” component.



This component has to be configured before it is able to start.

Enter the following information:
Service Account:
- Enter domain\sa_MOSS2007Search as account.
- Enter the configured password in the password field.

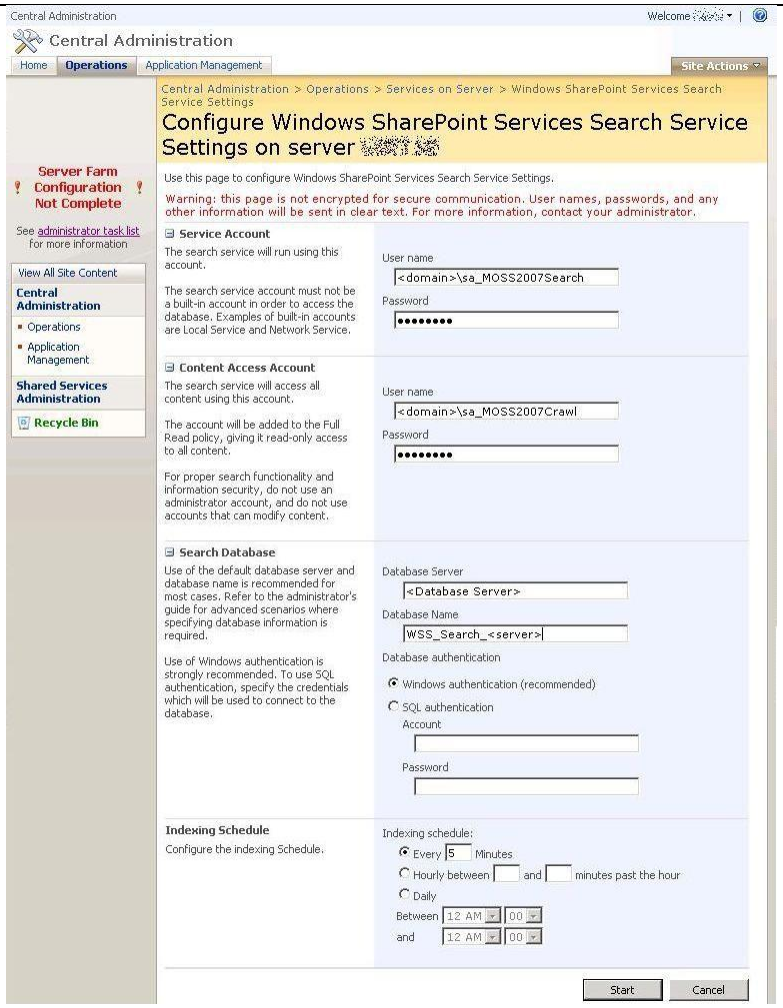
Content Access Account:
- Enter domain\sa_MOSS2007Search as account.
- Enter the configured password in the password field.

NOTE: Do not use the Crawl account as showed in the picture. This will cause some issues. Just use the Search account.

Search Database:
- Enter the database server (probably automatically entered correctly)
- Enter the database name (probably automatically entered correctly).

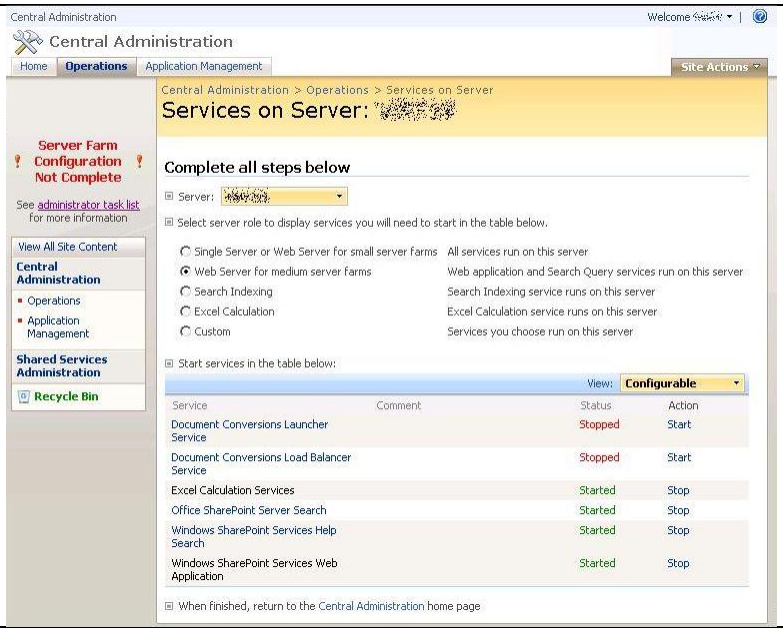
Indexing Schedule:
- Leave default

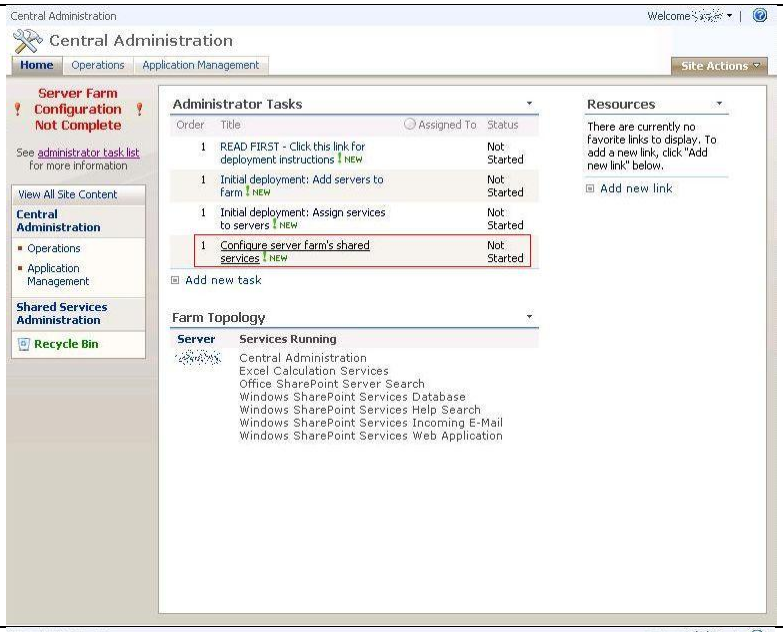
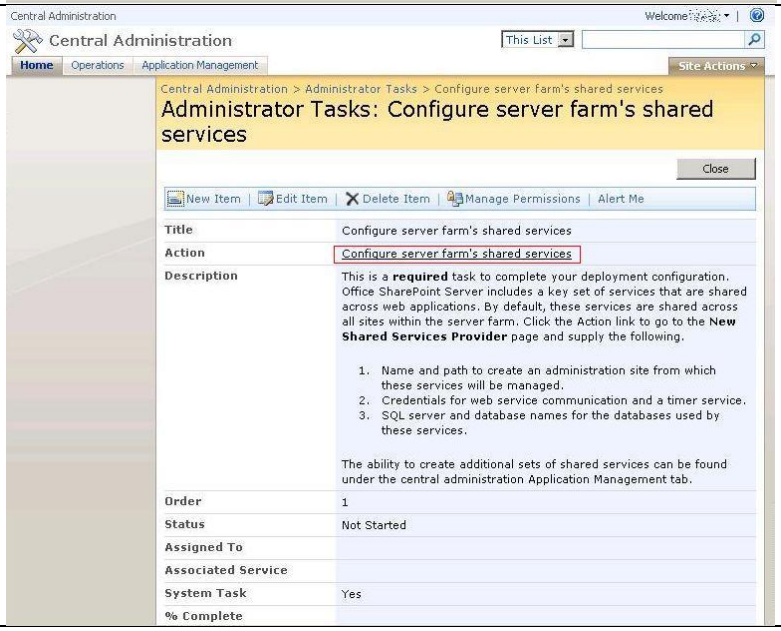
Click “Start”

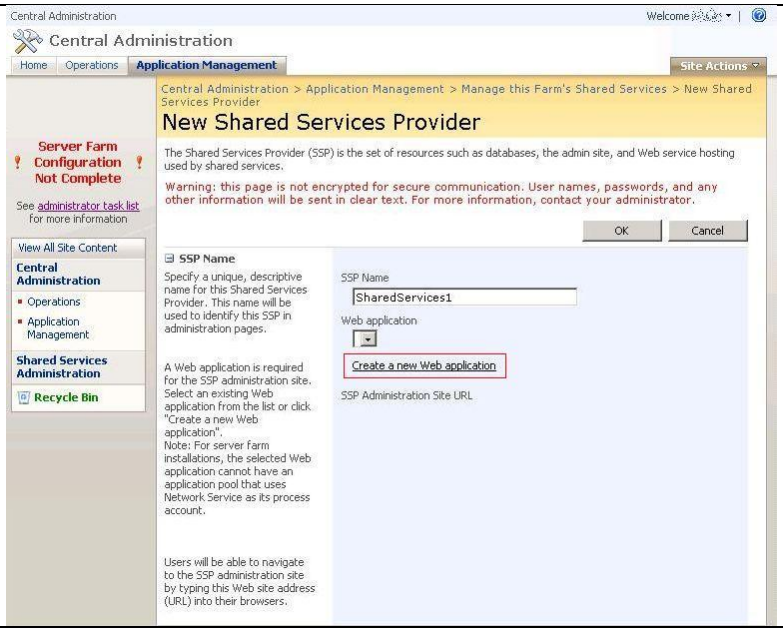


All services are started correctly.

Click “Home”



Select the next task “Configure server farm’s shared services”	
Click the link behind “Action” to start the task.	

Click “Create a new Web application” to create a web application for the Shared Services.	

Enter the following information:

IIS Web Site:
- Select “Create a new IIS web site”
- Desciption: “sharedservices.domain.nl”
- Port: “80”
- Host Header: “sharedservices.domain.nl”

Security Configuration:
- Authentication provider: “NTLM”
- Allow Anonymous: “No”
- Use Secure Socket Layer: “No”

Load Balanced URL:
- URL: http://sharedservices.domain.nl:80

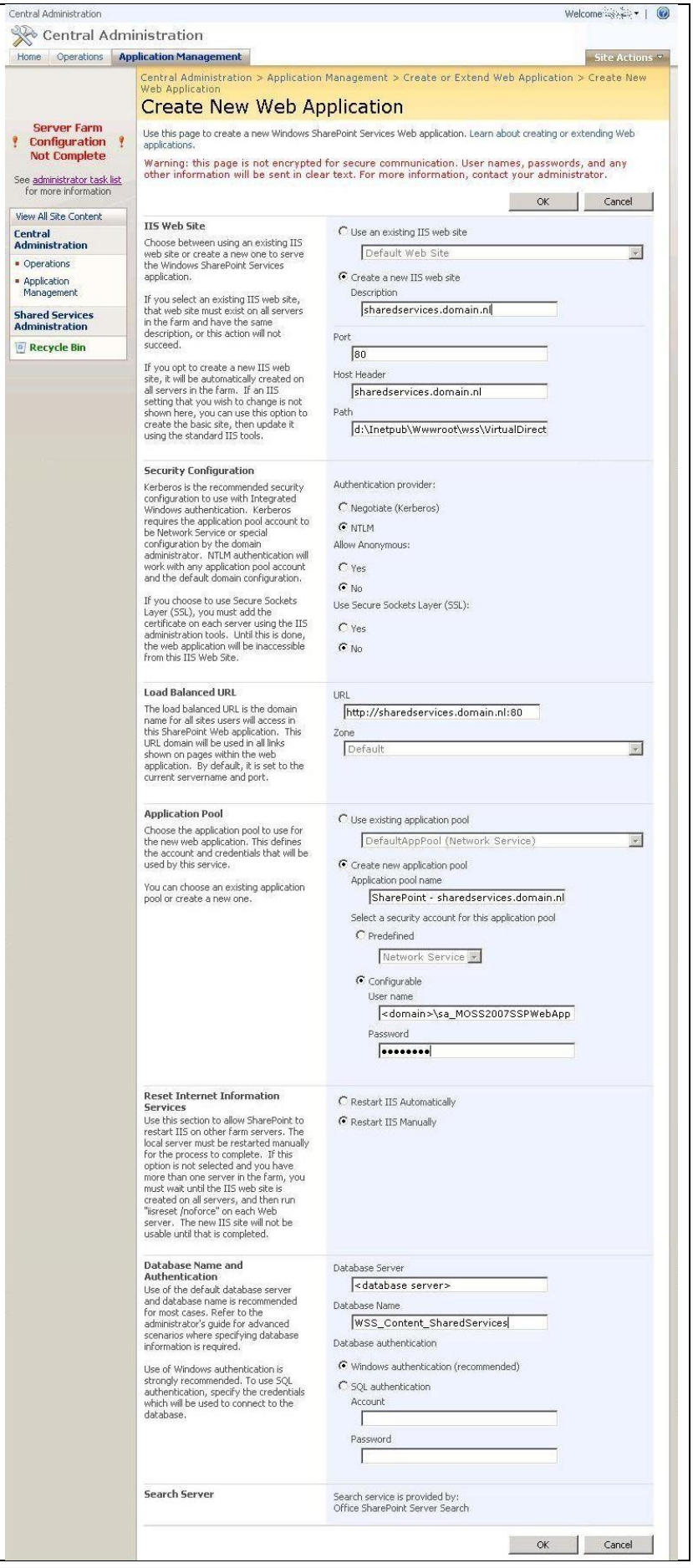
Application Pool:
- Select “Create new application pool”
- Application pool name: Leave default
- Username: “domain\sa_MOSS2007SSPWebApp”
- Password: Enter the configured password in the password field.

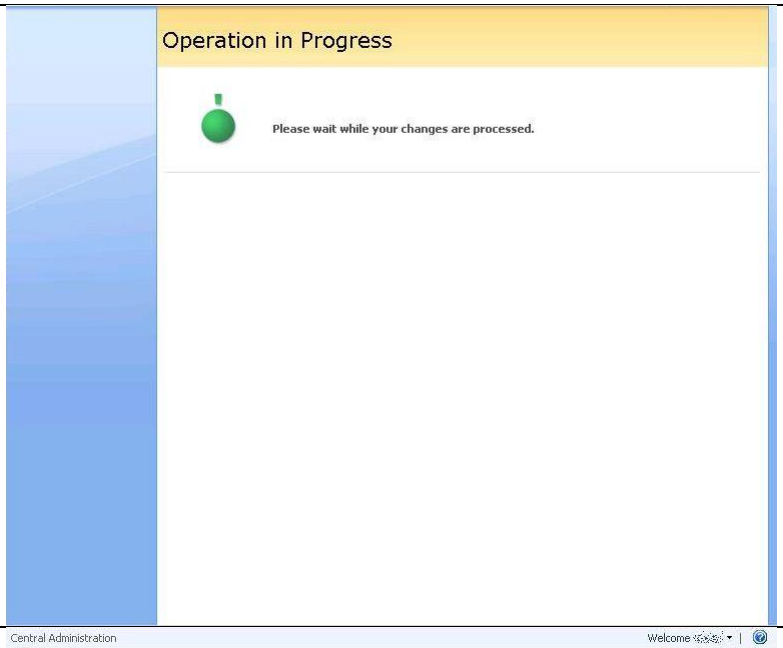
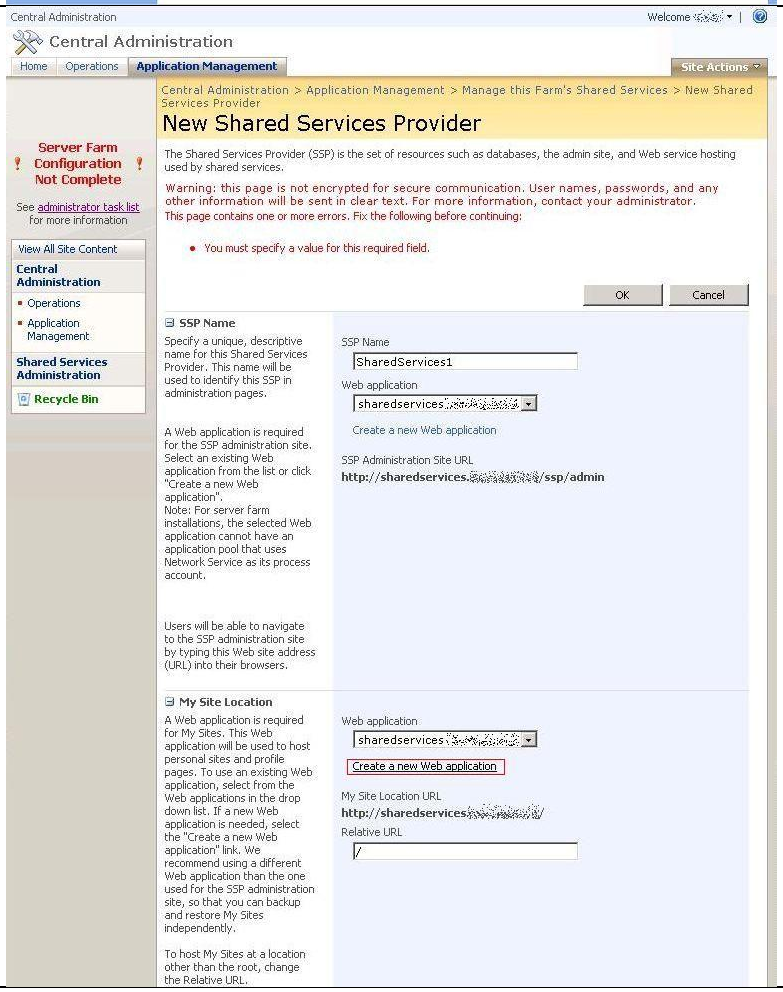
Reset Internet Information Services:
- Select “Restart IIS Manually”

Database Name and Authentication:
- Database server: Enter the database server (probably automatically entered correctly)
- Database Name: Add “_SharedServices” to the default name.

Click “OK”

NOTE: Use your own domain name instead of domain.nl



The web application will be created.	
Scroll down and click “Create a new Web application” under “My Site Location”	

Enter the following information:

IIS Web Site:
- Select “Create a new IIS web site”
- Desciption: “mysite.domain.nl”
- Port: “80”
- Host Header: “mysite.domain.nl”

Security Configuration:
- Authentication provider: “NTLM”
- Allow Anonymous: “No”
- Use Secure Socket Layer: “No”

Load Balanced URL:
- URL: http://mysite.domain.nl:80

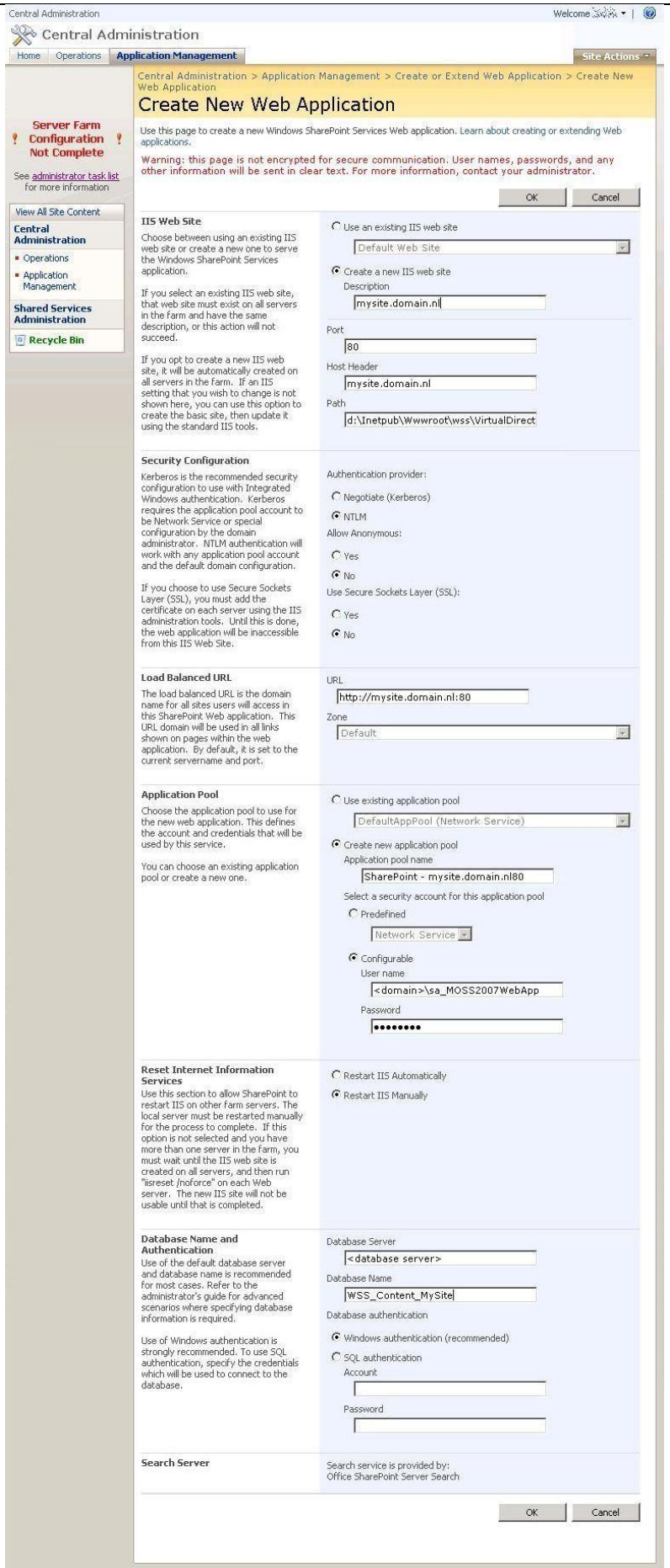
Application Pool:
- Select “Create new application pool”
- Application pool name: Leave default
- Username: “domain\sa_MOSS2007WebApp”
- Password: Enter the configured password in the password field.

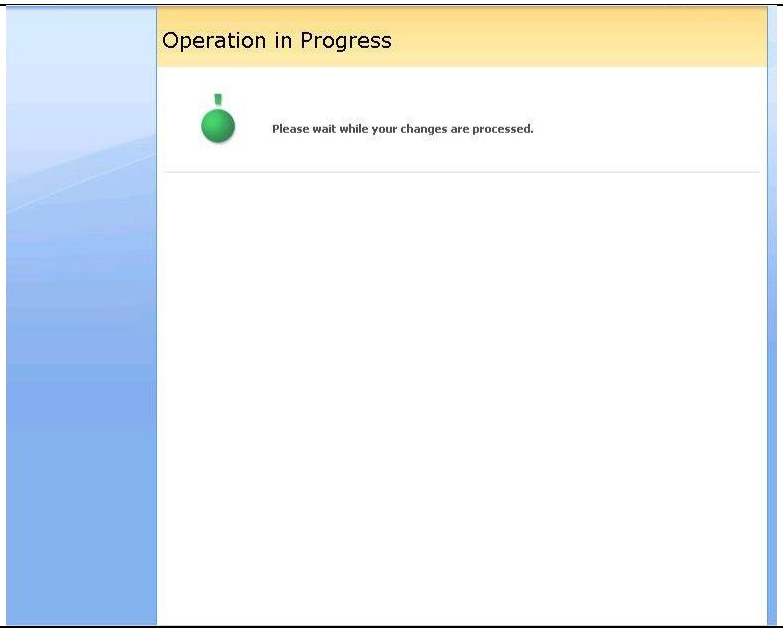
Reset Internet Information Services:
- Select “Restart IIS Manually”

Database Name and Authentication:
- Database server: Enter the database server (probably automatically entered correctly)
- Database Name: Add “_MySite” to the default name.

Click “OK”

NOTE: Use your own domain name instead of domain.nl



The web application will be created.	

Enter the following information:

SSP Name:
- SSP Name: “SharedServices”
- Web application: “sharedservices.domain.nl”

My Site Location:
- Web Application: “mysite.domain.nl”
- Relative URL: “/”

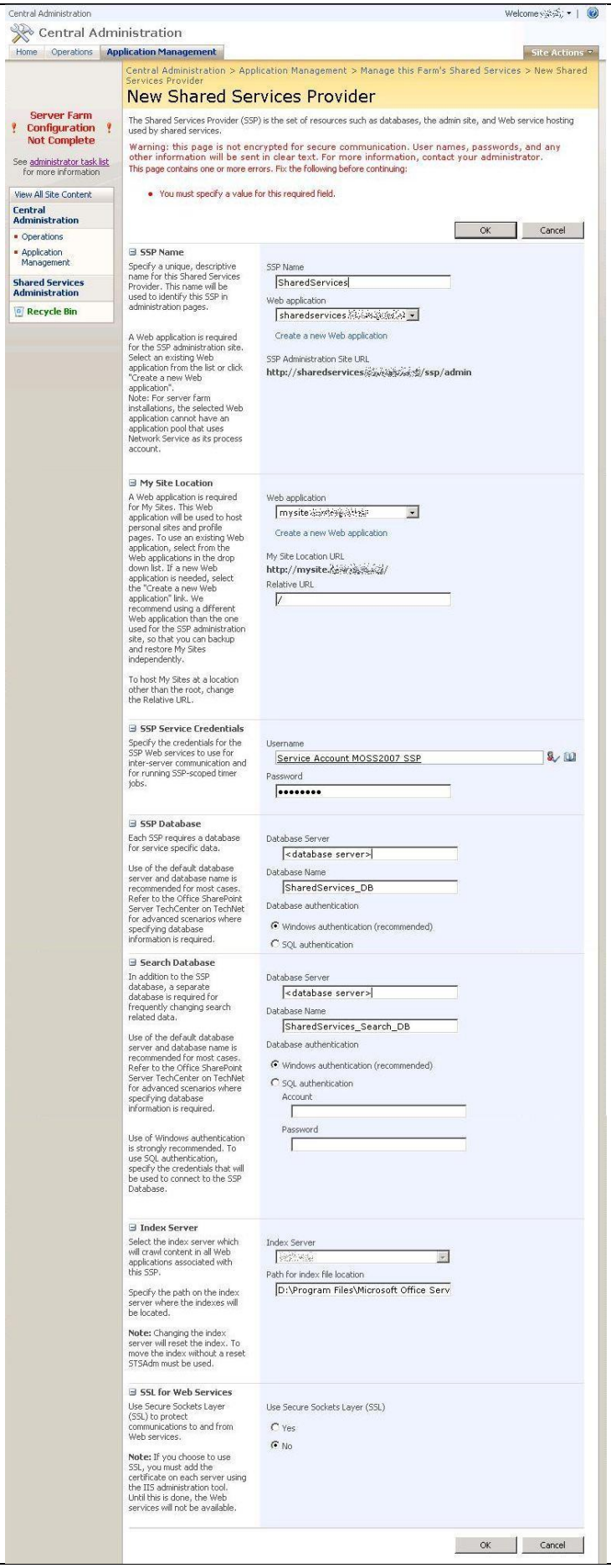
SSP Service Credentials:
- Username: “domain\sa_MOSS2007SSP”
- Password: Enter the configured password in the password field.

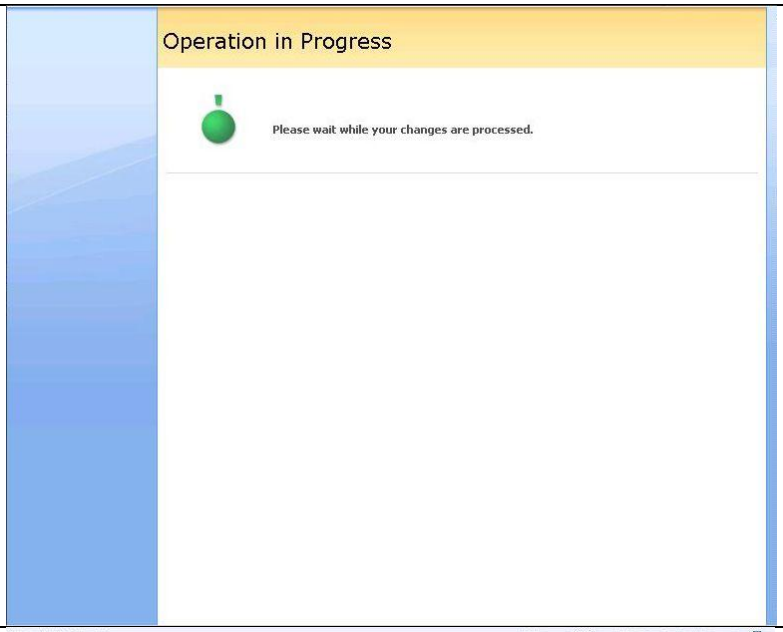
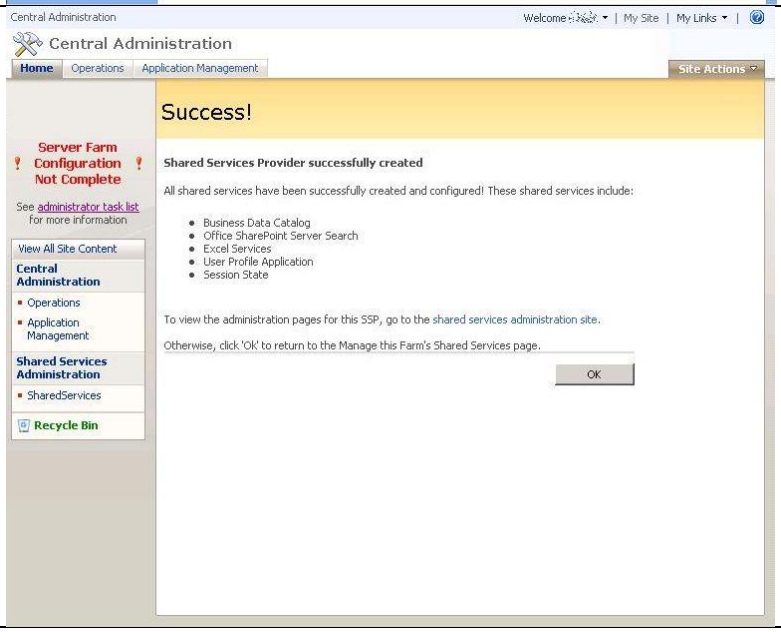
SSP Database:
- Database server: Enter the database server (probably automatically entered correctly)
- Database Name: “SharedServices_DB” (remove “1”)

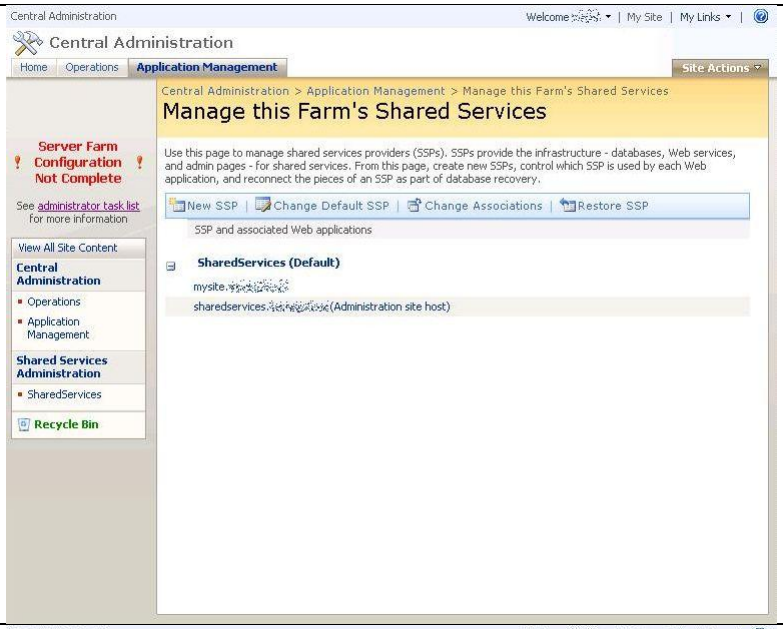
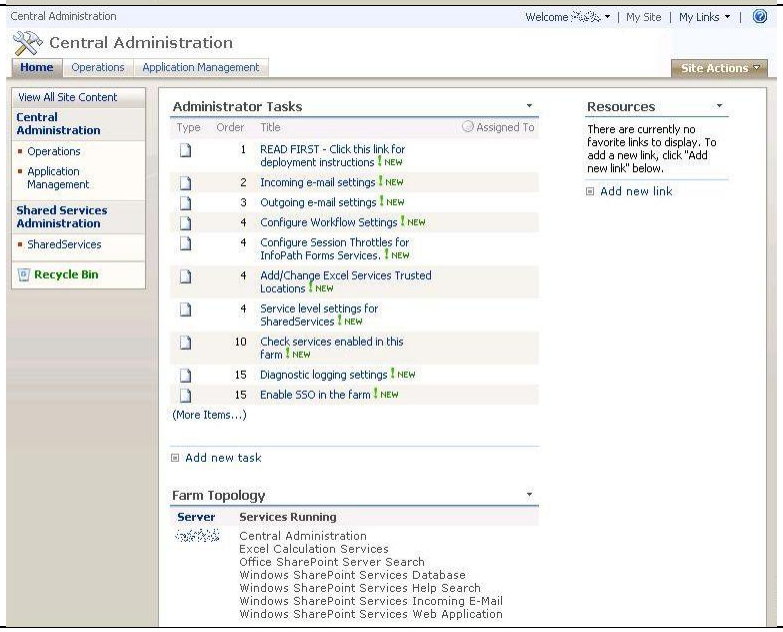
Search Database:
- Database server: Enter the database server (probably automatically entered correctly)
- Database Name: “SharedServices_Search_DB” (remove “1”)

Index Server:
- Index Server: Leave default
- Path for index file location: Leave default

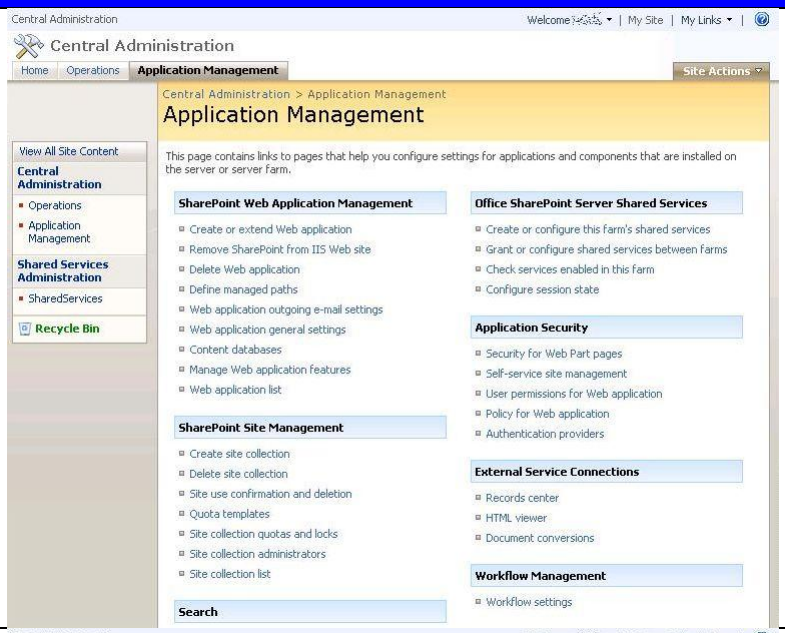
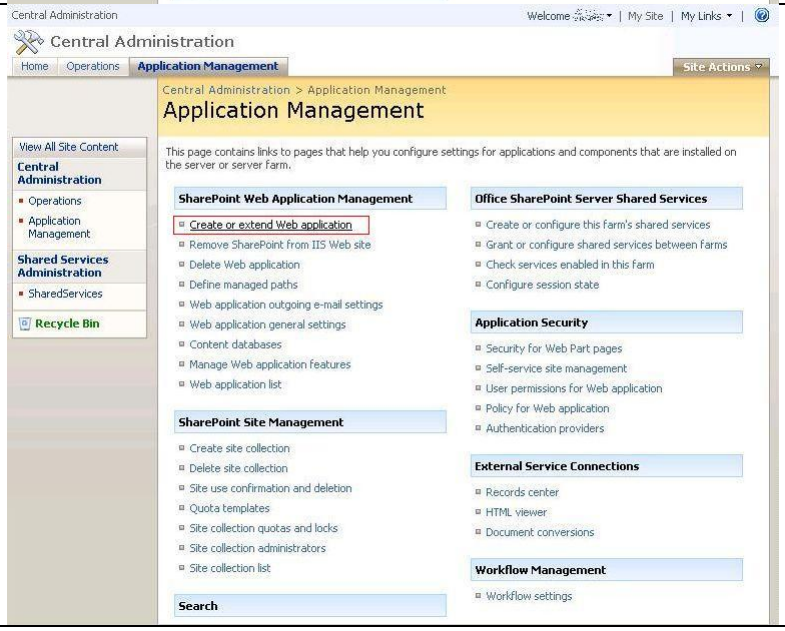
SSL for Web Services:
- Use Secure Sockets Layer: “No”

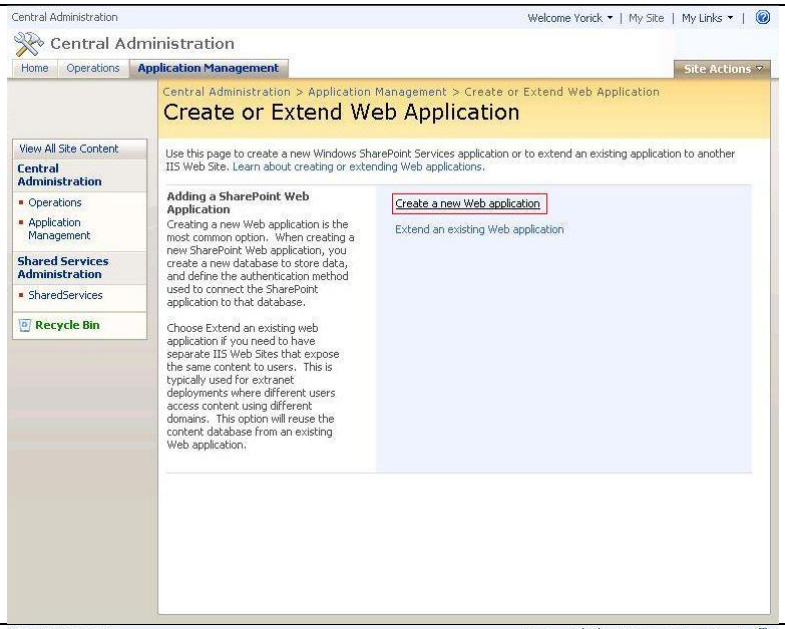
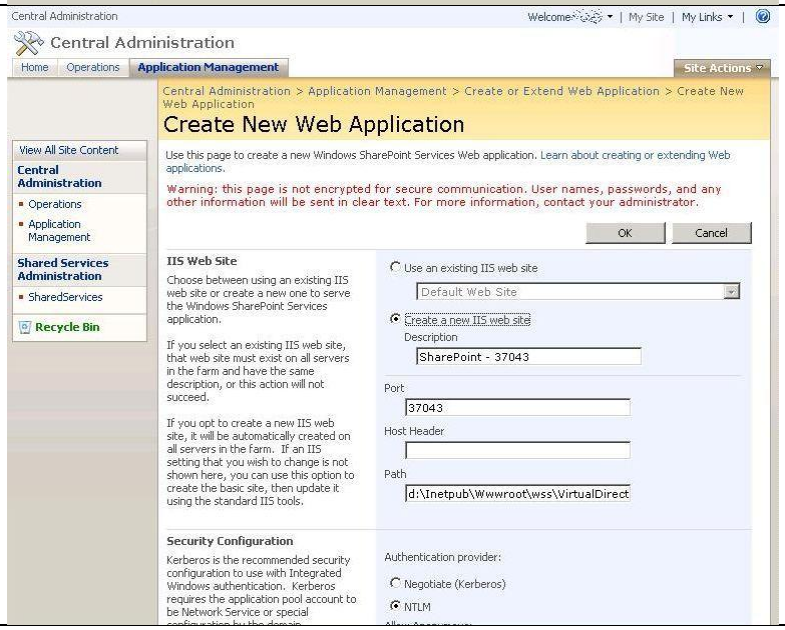


The Shared Services Provider will be created.	
The Shared Services Provider has been created successfully. Click “OK”	

The Shared Services are being displayed. Click “Home”	
The default tasks are removed and new tasks are added. These tasks are not required for operation. One task is important: “Outgoing e-mail settings”. Without configuring this setting, alerts will not work.	

Step 11: Create web application for portal

Step	
Click “Application Management”	
Click “Create or extend Web application”	

Click “Create a new Web Application”	
The page for a new Web Application is shown.	

Enter the following information:
IIS Web Site:
- Select “Create a new IIS web site”
- Desciption: “portal.domain.nl”
- Port: “80”
- Host Header: “portal.domain.nl”

Security Configuration:
- Authentication provider: “NTLM”
- Allow Anonymous: “No”
- Use Secure Socket Layer: “No”

Load Balanced URL:
- URL: http://portal.domain.nl:80

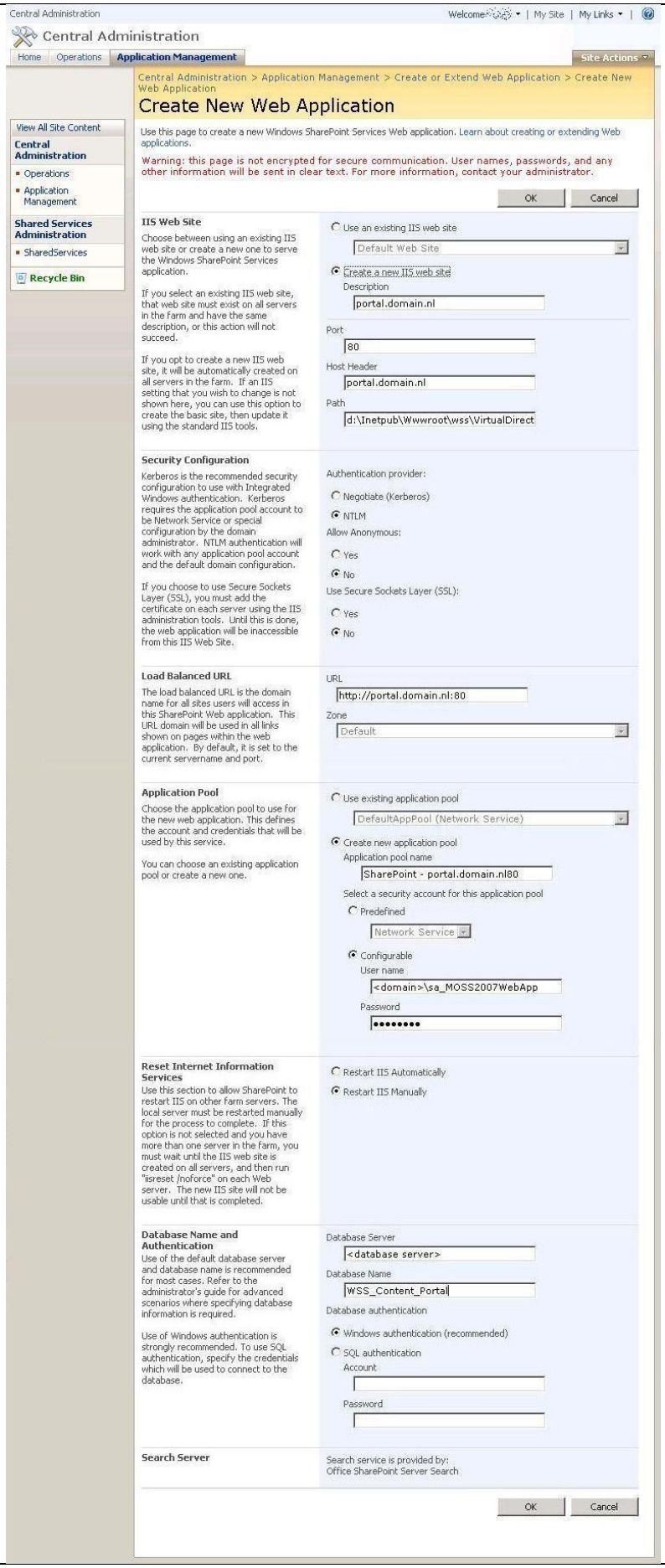
Application Pool:
- Select “Create new application pool”
- Application pool name: Leave default
- Username: “domain\sa_MOSS2007WebApp”
- Password: Enter the configured password in the password field.

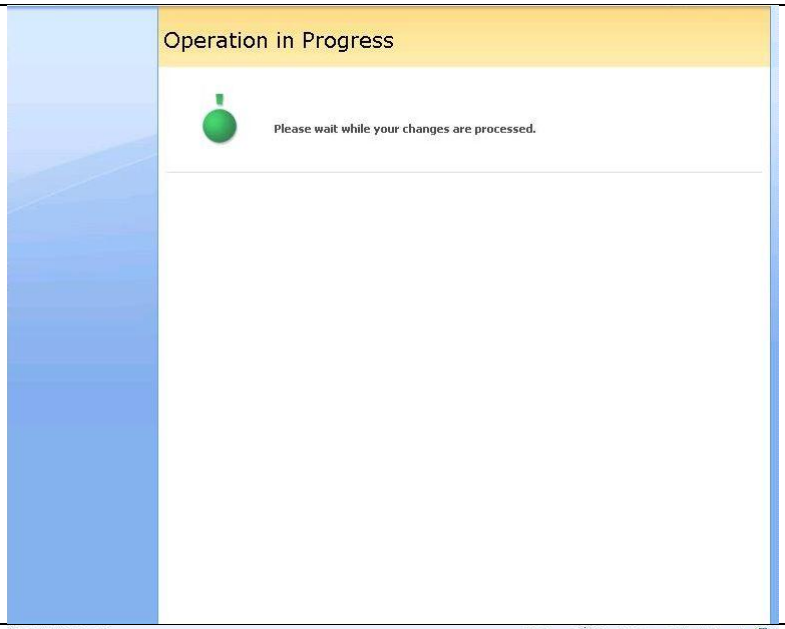
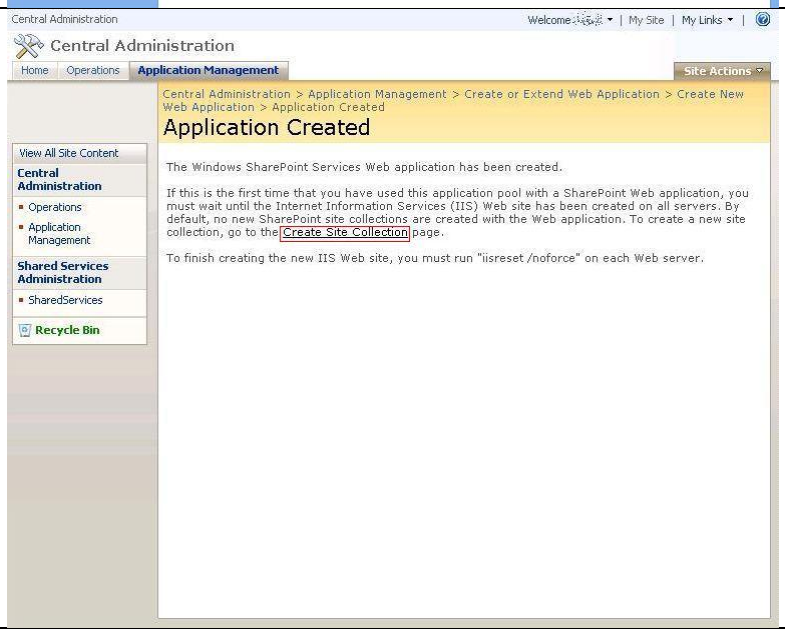
Reset Internet Information Services:
- Select “Restart IIS Manually”

Database Name and Authentication:
- Database server: Enter the database server (probably automatically entered correctly)
- Database Name: Add “_Portal” to the default name.

Click “OK”

NOTE: Use your own domain name instead of domain.nl



The web application will be created.	
The web application has been created. Click “Create Site Collection” to create a site collection in the web application.	

Enter the following information:
Web Application:
- Choose "http://portal.domain.nl"

Title and Description:
- Title: "Portal"
- Description: Enter if necessary.

Web Site Address:
- Choose root "/"

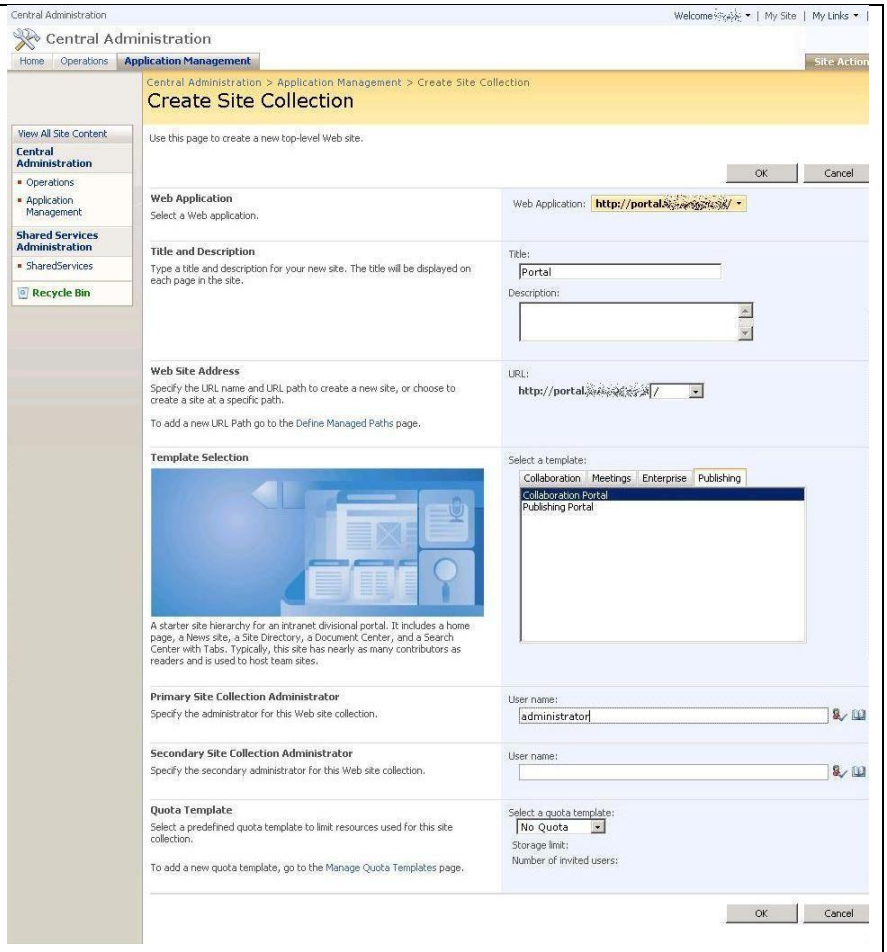
Template Selection:
- Tab: "Publishing"
- Template: "Collaboration Portal"

Primary Site Collection Administrator:
- User name: "Administrator"

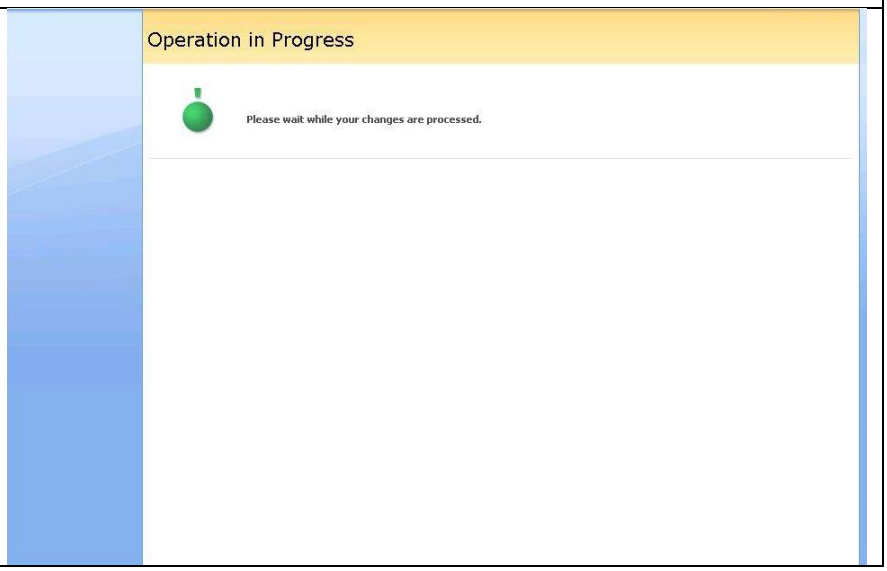
Secondary Site Collection Administrator:
- User name: If desired.

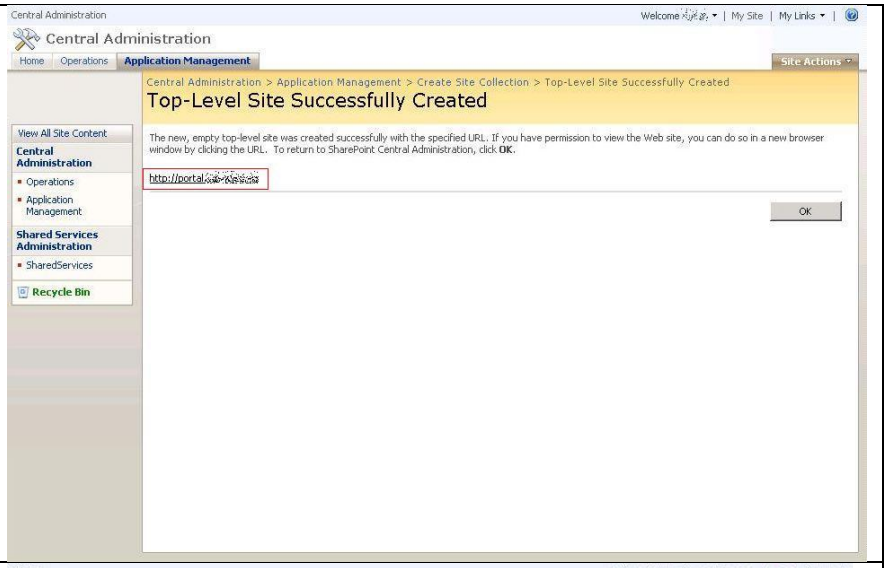
Quota Template:
- Quota template: Leave default

Click "OK"



The site collection will be created.



The site collection has been created. Click the link to open the portal.	
You have looking at the portal you have just created!!	

If you like to create a web application especially for team sites, create another web application by performing step 10 once more. Only this time using teamsite.<domain> instead of portal.<domain>.

Step 12: Install .NET Framework Service Packs

Step	
Download the Service Pack 1 for the .NET Framework v2.0 and v3.0 .NET Framework v2.0 Service Pack 1: x86: http://www.microsoft.com/downloads/details.aspx?FamilyID=79bc3b77-e02c-4ad3-aacf-a7633f706ba5&DisplayLang=en x64: http://www.microsoft.com/downloads/details.aspx?FamilyId=029196ED-04EB-471E-8A99-3C61D19A4C5A&displaylang=en .NET Framework v3.0 Service Pack 1: Web install: http://www.microsoft.com/downloads/details.aspx?FamilyID=EC2CA85D-B255-4425-9E65-1E88A0BDB72A&displaylang=en	
Install both service packs. They will fix some issues which cause problems with SharePoint 2007. Both Service Packs are also available via Microsoft Update: http://update.microsoft.com	

Step 13: Install Service Pack 1 for MOSS2007

If Service Pack 1 for MOSS2007 hasn't been installed using the slipstream method, you can install the Service Pack using the following steps:

Step		
Download Service Pack 1 for WSS and MOSS Details: WSS 3.0 http://support.microsoft.com/?kbid=936988 MOSS 2007 http://support.microsoft.com/?kbid=936984		WSS 3.0 - DOWNLOADS KB936988: http://www.microsoft.com/downloads/details.aspx?FamilyId=4191A531-A2E9-45E4-B71E-5B0B17108BD2&displaylang=en MOSS 2007 - DOWNLOADS KB936984: http://www.microsoft.com/downloads/details.aspx?FamilyId=AD59175C-AD6A-4027-8C2F-DB25322F791B&displaylang=en
Perform the steps below for both the WSS and MOSS Service Pack. ***NOTE: Start with the WSS Service Pack***		
	Install the Service Pack, start with the server that runs the Central Administration role. Accept license agreement and click "Ok".	
	After the installation, the Configuration Wizard starts automatically.	

	Click Next until the following dialog box appears: *"You must run Setup to install new binary files for every server in your server farm. If you have multiple servers in your server farm, run Setup and the configuration wizard on the other servers now, and then return to this server and click OK to continue."*	
	Now install the service pack on all servers in the farm, until the same dialog box, one by one	
	If all servers show the dialog box, click Ok on the server that runs the Central Admin	
	Proceed with all servers, one by one. If one completes, click Ok at the next server.	
	The Service Pack has been installed	

Step 14: Configure PDF icon

Step	
Download the PDF icon from http://share-point.blogspot.com/2007/05/moss2007-configure-sharepoint-2007-to.html	
Copy the PDF icon to C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\Template\Images	
Add "<mapping key="pdf" value="icpdf.gif">" to the file docicon.xml which can be found in: C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\Template\XML	
Run an IISReset	

Step 15: Install IIS patch to solve "Corrupt memory" issue

Step	
Contact Microsoft to request patch KB946517: http://support.microsoft.com/kb/946517 A download link to the patch will be send to you via e-mail.	More info: http://share-point.blogspot.com/2008/04/moss2007-fix-for-event-id-6398.html
Install the patch and reboot the server	

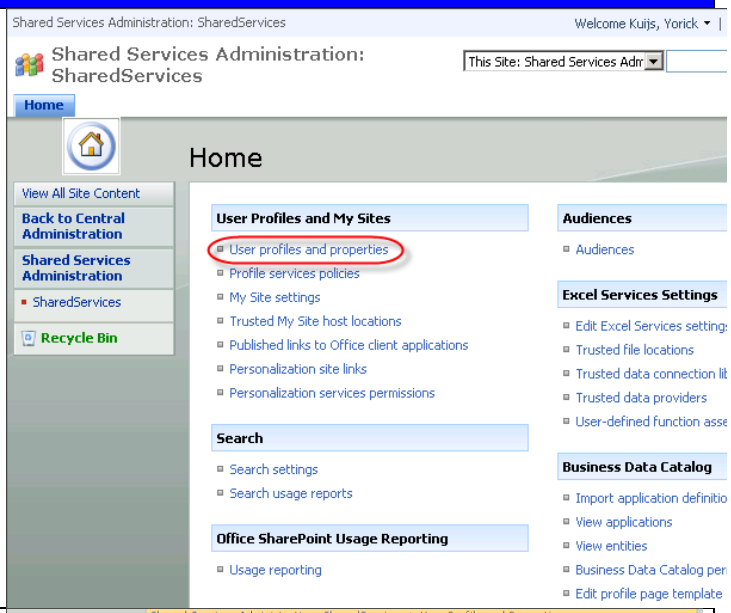
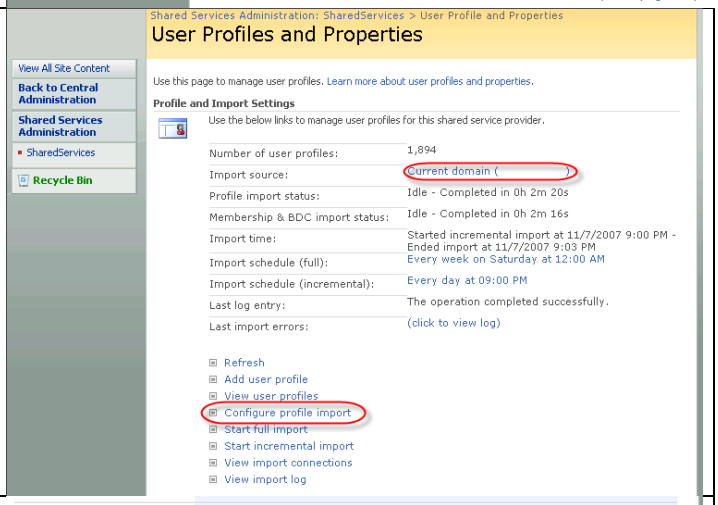
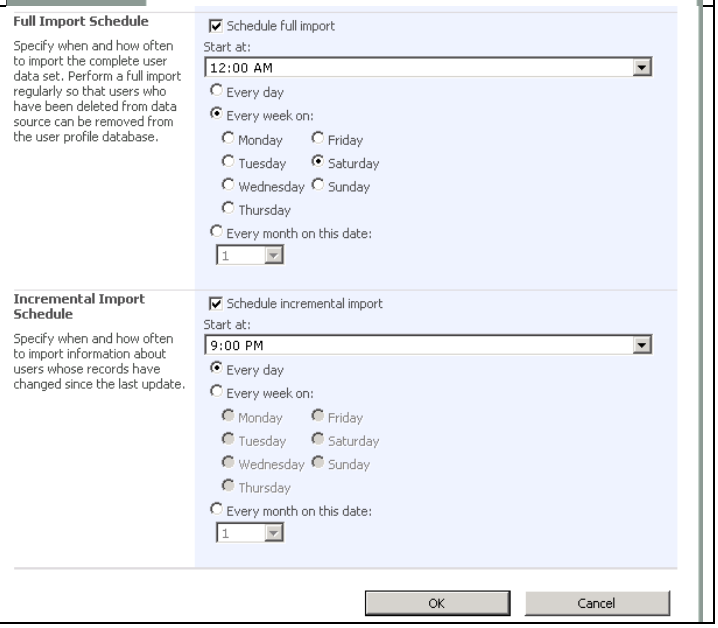
Step 16: Install PDF iFilter and configure indexed file types

Step	
Download the PDF iFilter from http://www.foxitsoftware.com/pdf/ifilter/ ***NOTE:*** *The only company that is supplying a 64 bit PDF iFilter is Fox IT.*	
Install the iFilter by running the downloaded MSI package	
Add PDF to the indexed file types: - Shared Services > Search Settings > File Types - Click "New File Type" - Enter "pdf" and click "OK"	

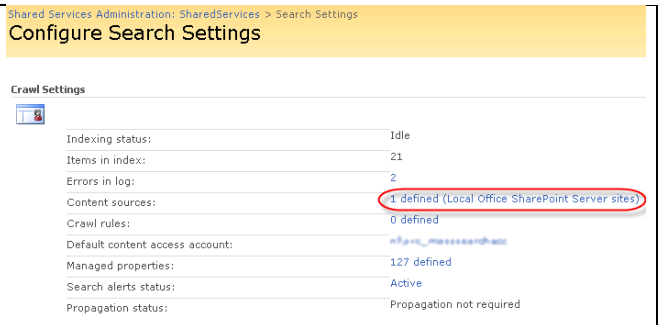
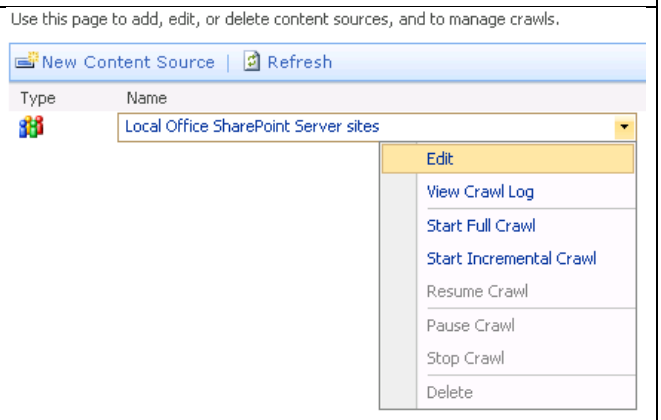
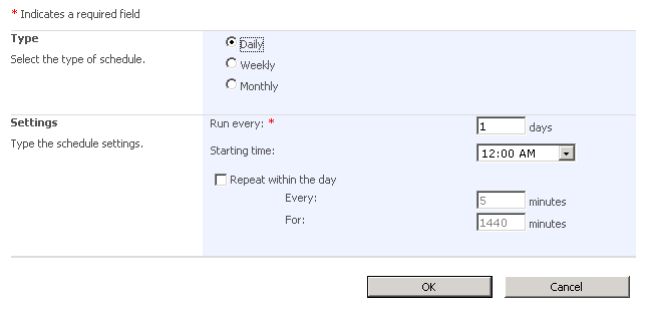
Step 17: Grant service accounts permissions to DCOM objects

Step	
Open the Knowledge Base article KB920783 and perform the mentioned steps. This will prevent DCOM errors (Event ID 10017) from appearing in the event log.	http://support.microsoft.com/kb/920783
1.) Click Start, click Run, type dcomcnfg in the Open box, and then click OK. 2.) Expand Component Services, expand Computers, expand My Computer, and then click DCOM Config. 3.) Right-click IIS WAMREG admin Service, and then click Properties. 4.) Click the Security tab. 5.) Under Launch and Activation Permissions, click Edit. 6.) In the Launch Permission dialog box, click Add. 7.) In the Select Users, Computers, or Groups dialog box, type the WSS_WPG and WSS_ADMIN_WPG groups, click Check Names, and then click OK. 8.) In the Permissions for UserName list, click to select the Allow check box that is next to Local Activation, and then click OK two times.	
This issue has been fixed since the Public Update of October 9th. Unfortunately a new issue has been introduced which can be fixed:	
Perform the same steps mentioned above for the OSearch and SPSearch DCOM components.	More info: http://share-point.blogspot.com/2007/11/mosswssv3-bug-in-sharepoint-public.html

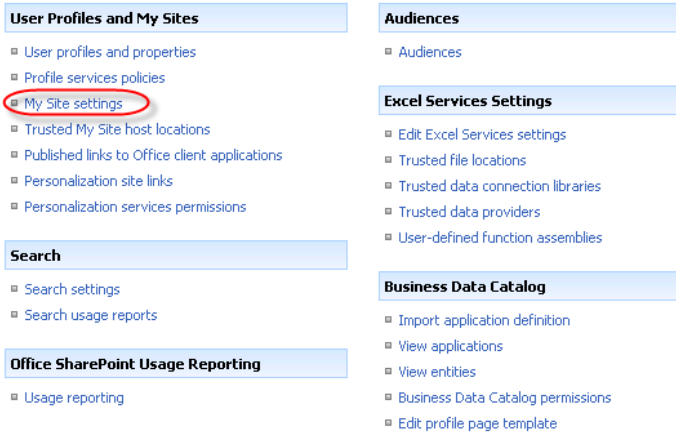
Step 18: Configure profile import schedule

Step	
When an Active Directory is present, it is possible to import user data into the SharePoint profile database. This data will be used in the users MySites. To configure the profile import, go to the Shared Services Page at http://sharedservices.domain.nl and click “User profiles and properties”.	
Verify that your current domain has been selected by checking the name after “Current domain (<domain>)”. <domain> should list your domain. Click “Configure profile import”	
Scroll down, select the checkbox “Schedule full import” and enter an appropriate time. Do the same for the Incremental Import. Click “OK”	

Step 19: Configure indexing schedule

Step	
Open the Shared Services at http://sharedservices.domain.nl and click “Search settings”	
Open the Content Sources by clicking “1 defined (Local Office SharePoint Server sites)”	
Hover over the “Local Office SharePoint Server sites” item and click the yellow arrow on the right to open the menu. Select menu item “Edit”	
Scroll down to the “Crawl Schedules” section and click “Create Schedule” under “Full Crawl” to create a new schedule.	
Select the desired schedule and click “OK”	
Do the same for the Incremental Crawl and click “OK” afterwards. Content will be crawled according to the specified schedule.	

Step 20: Change MySite settings

Step	
Open the Shared Services at http://sharedservices.domain.nl and click “My Site Settings”	
Scroll down and select “Domain and user name (will not have conflicts)” at the “Site Naming Format”. Click “OK”.	

Step 21: (Optional) Install STSADM Extensions

Step	
Gary Lapointe created some STSAdm extensions, which provide extra functionality on top of the default operations. If you like to install these extensions, download them from http://stsadm.blogspot.com Download: http://www.thelapointes.com/blog/Lapointe.SharePoint.STSADM.Commands.wsp	More info: http://stsadm.blogspot.com/2007/08/stsadm-commands_09.html
Add the solution by running the command:	stsadm -o addsolution -filename "Lapointe.SharePoint.STSADM.Commands.wsp"
Deploy the solution by running the command:	stsadm -o deploysolution -local -allowgacdeployment -name "Lapointe.SharePoint.STSADM.Commands.wsp"
Force the deployment jobs to run:	stsadm -o execadmsvcjobs

Step 22: Windows Update

Step	
Run a “Microsoft Update” and install all missing patches.	http://update.microsoft.com

Appendix 1: Create your own MOSS SP1 Slipstream

Step	
Download MOSS and WSS Service Pack 1 files You can download the MOSS and WSS SP1 files from here. You will need both service packs for a MOSS installation. Once downloaded you will have two executable files: *Wssv3sp1-kb936988-x86-fullfile-en-us.exe* and *Officeserver2007sp1-kb936984-x86-fullfile-en-us.exe*	WSS SP1: http://www.microsoft.com/downloads/details.aspx?FamilyID=4191a531-a2e9-45e4-b71e-5b0b17108bd2&DisplayLang=en MOSS SP1: http://www.microsoft.com/downloads/details.aspx?FamilyID=ad59175c-ad6a-4027-8c2f-db25322f791b&DisplayLang=en
Extract the exe's You now need to extract the exe's, to do this enter this command **NOTE: This assumes you've downloaded the exe's to your c:\, change if not**	C:\Wssv3sp1-kb936988-x86-fullfile-en-us.exe /extract:c:\wsssp1extract C:\Officeserver2007sp1-kb936984-x86-fullfile-en-us.exe /extract:c:\mosssp1extract
3 - Add the extracted files to your RTM MOSS installation Once you've extracted the service pack exe's you need to copy the extracted contents to the /Updates folder on the MOSS CD. The easiest way to do this is take a copy of your MOSS RTM CD (or extract your ISO image) onto your file system and simply copy the contents of both c:\wsssp1extract and c:\mosssp1extract into the \Updates folder (both the WSS and MOSS service pack files go into the same folder, do not use sub-folders)..	