

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

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Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Index

- 3.1 Scope**
- 3.2 Prerequisites**
- 3.3 Installation**
 - Advanced
 - Default
 - Stand Alone
- 3.4 Conclusion**

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

3.1 Scope

This chapter will examine the process of installing Microsoft Office SharePoint Server 2007 (MOSS) onto a new stand alone Windows 2003 server.

3.2 Prerequisites

There are a number of requirements on any system onto which you plan to install Microsoft Office SharePoint Server 2007 (MOSS). These minimum requirements are:

- Windows Server 2003 Service Pack 1
- Dot Net Framework Version 3.0
- Internet Information Services (IIS) configured with ASP .NET

The following requirements are necessary if you wish to implement additional features in MOSS :

- SMTP service

Data storage location

MOSS has the ability to store data in a number of locations, including Microsoft SQL Server 2005 Express Edition that comes with MOSS. The planned location of your MOSS data will have an impact on the installation method you are able to choose.

Once these requirements have been met it is also advisable to ensure that the machine on which you wish to install MOSS is updated with all the latest patches and service packs. It is also advisable to do a reboot of the system prior to a MOSS installation to ensure a clean run up environment.

3.3 Installation

We'll cover the following installations:

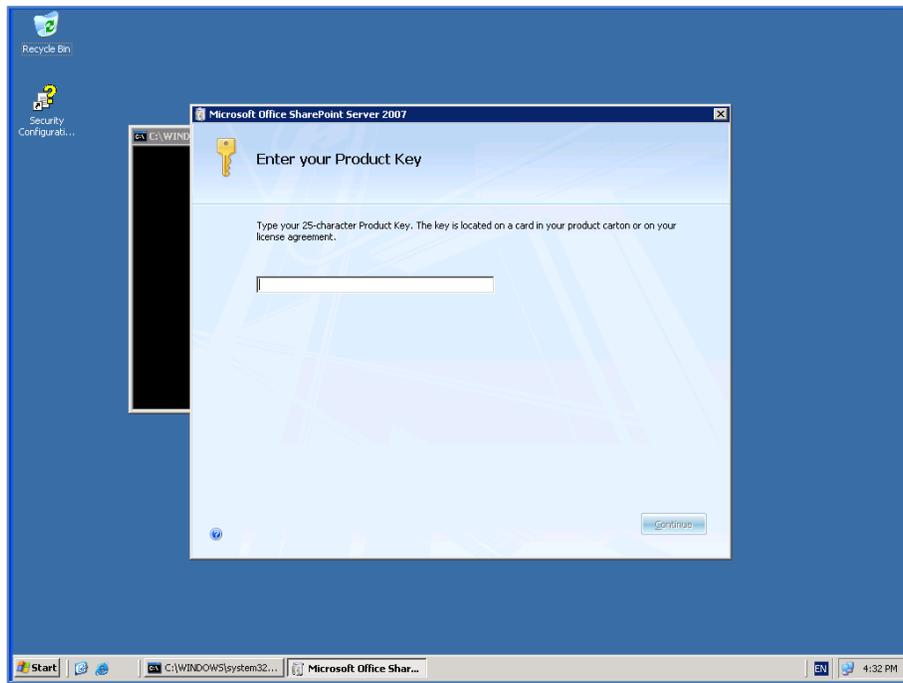
- Advanced
- Default
- Stand Alone

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

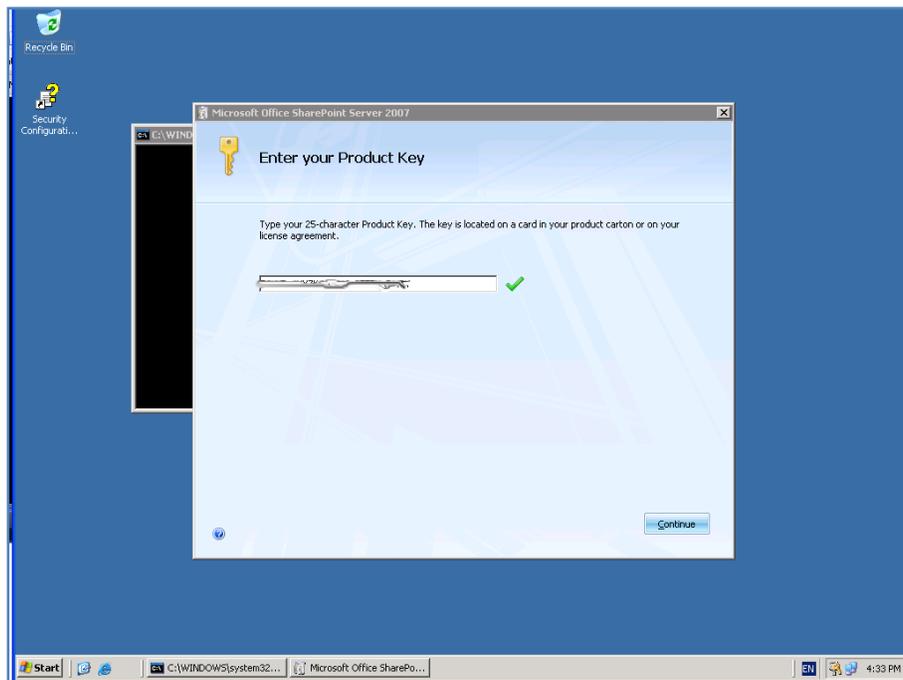
Advanced Installation

After meeting all the server prerequisites and having the MOSS media, log into the Windows Server as an administrator. Commence the installation by inserting the MOSS media.

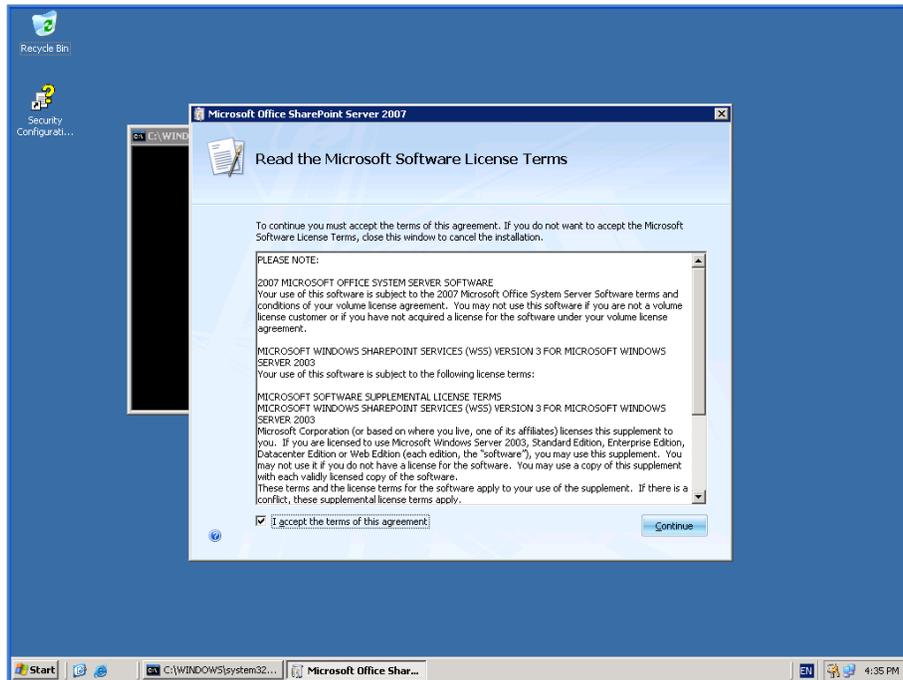
Once the setup files have been extracted you will be prompted to enter a product key for MOSS. The key that you enter here determines whether the MOSS installation is the Standard or Enterprise version. It is also important to keep in mind that it is only possible to upgrade from the Standard edition to the Enterprise edition and not the reverse (i.e. you have to do a reinstallation if you want to downgrade from MOSS Enterprise to MOSS standard).



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

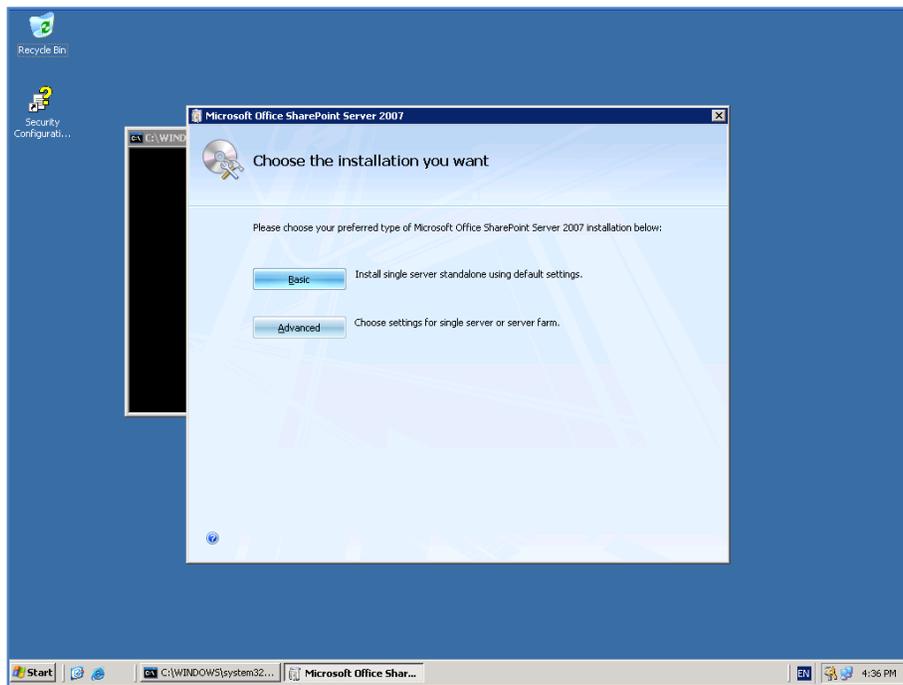


Once the key is entered correctly you should receive a green tick like that shown above. Click the **Continue** button.



The next window displayed will be the Microsoft Software License Terms. After reviewing this, check – *I accept the terms of this agreement* in the lower left of the windows and press the **Continue** button.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



The next windows to be displayed will ask you for the type of installation you wish. It is important to pause here and consider the options that are presented and the ramifications they may have for your installation.

Installation type

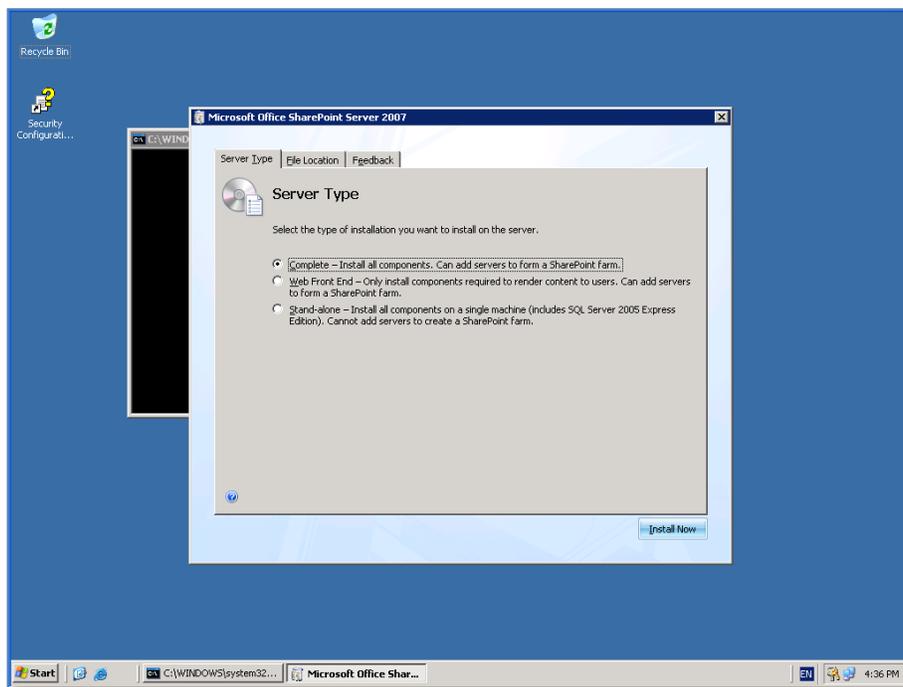
- a. **Basic** – Selecting this option will install MOSS onto your server using the standard defaults. You will not be prompted about things like file locations, database locations or whether you wish to only create a web front end. Selecting this option will automatically complete the following tasks:
 - a. Install SharePoint programs into *c:\program files\common files\Microsoft shared\web server extensions\12\data*
 - b. Install MOSS specific programs into *c:\program files\Microsoft Office Servers\12.0*
 - c. Install Microsoft SQL Server 2005 Express Edition as the MOSS storage option and install this automatically to *c:\program files\Microsoft SQL Server*. It will also install the MOSS databases in *c:\program files\Microsoft Office Servers\12.0\data\mssql.1\mssql\data*
 - d. Configure a MOSS web site on port 80.
 - e. Configure a MOSS collaboration portal.
 - f. MOSS will be configured for a single stand alone server. You will be unable to create a SharePoint farm later if required.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Note that using the basic option you are unable to change any of the selections mentioned above.

- b. **Advanced** - Selecting this option will provide you with the full range of options with your MOSS installation. However, it is important to note that you will have to complete ALL of the configuration steps and selections (including the creation of a MOSS portal) manually.

To give you a better idea of all the options that are available we will initially consider the Advanced installation option, which is commenced by pressing the **Advanced** button.

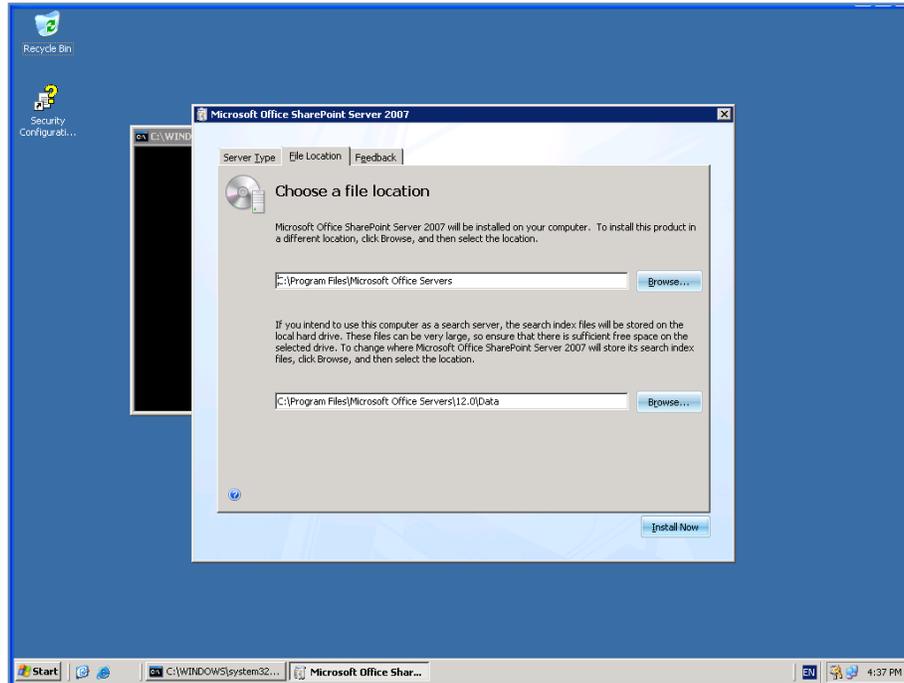


The next windows that is displayed after pressing the **Advanced** button is shown above. On the first tab you can select what type of installation you desire. Here again, the choices that you make can have a major impact on your installation going forward.

1. Complete – This option will install all the SharePoint components on the server. This will allow the server to function as a web front end, index server or stand alone server. This provides increased flexibility in that is the role of this server ever changes in the future all the required program files already reside here. The configuration of the MOSS server is completed at a later stage in the installation process. You will need to have an SQL server in place prior to selecting this option.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

2. Web Front End – This option simply installs the files required for this machine to function as processing web requests for SharePoint. A web front machine will need to be joined to an existing MOSS 'farm' before it can function. This option will require a reinstall if you need to support other services on this server later. It will however allow you to add more servers at a later date to form a 'farm'. You will need to have an SQL server in place prior to selecting this option.
3. Stand-alone – This option will not allow you to choose your own data storage location. It will also install Microsoft SQL Server 2005 Express Edition into *c:\program files\Microsoft SQL Server* and the MOSS databases into *c:\program files\Microsoft Office Servers\12.0\Data\MSSQL.1\MSSQL\Data*. Another limitation of this installation is that you are unable to add additional servers to this configuration to create a 'farm'.

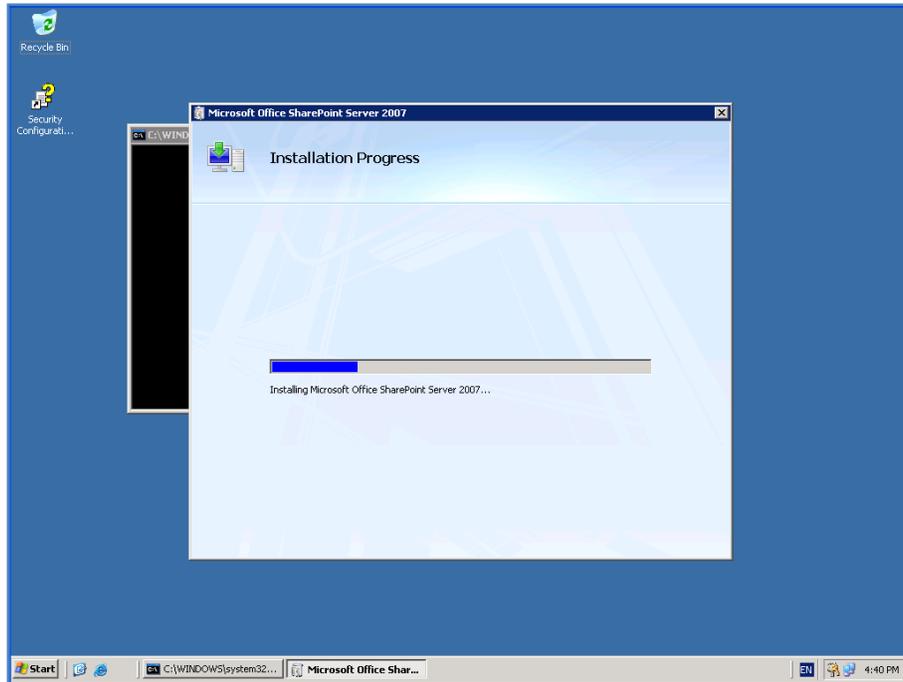


The data location tab allows you to specify where the MOSS program files will be stored. By default these will be installed in *c:\program files\Microsoft office servers*. You can specify any location by changing the entry displayed. It is recommended that you only change the drive letter if necessary to ensure compatibility and ease of future support.

Once you have made your selections click the **Install Now** button in the lower right of the window to continue.

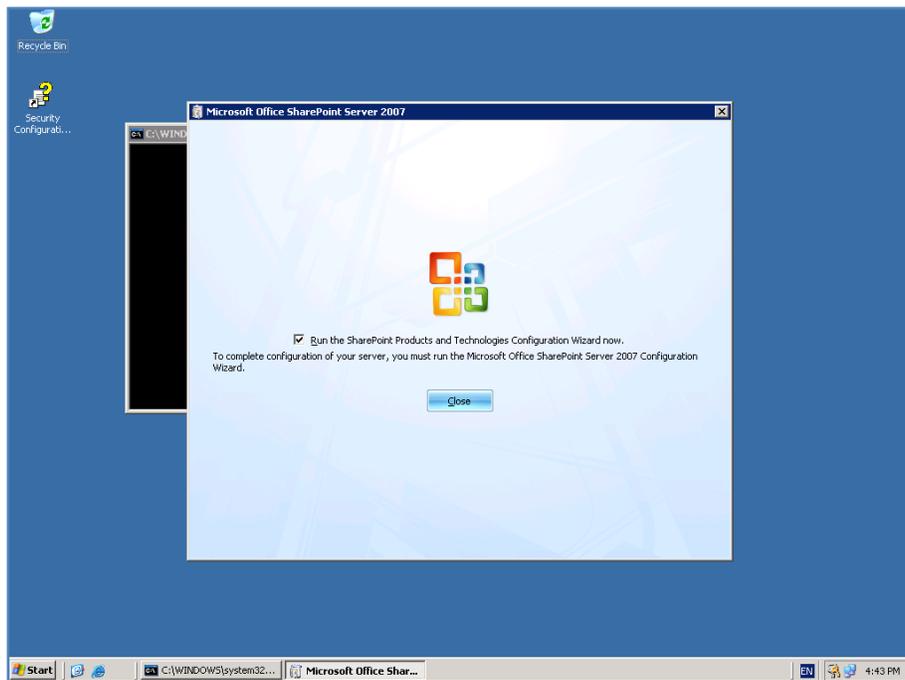
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Our installation here will continue along the installation of the Complete option since it illustrates all of the available options.



MOSS will now be installed onto your system with the options you have previously selected. You will be prompted for no further input until the installation progress bar has reached the far right hand side.

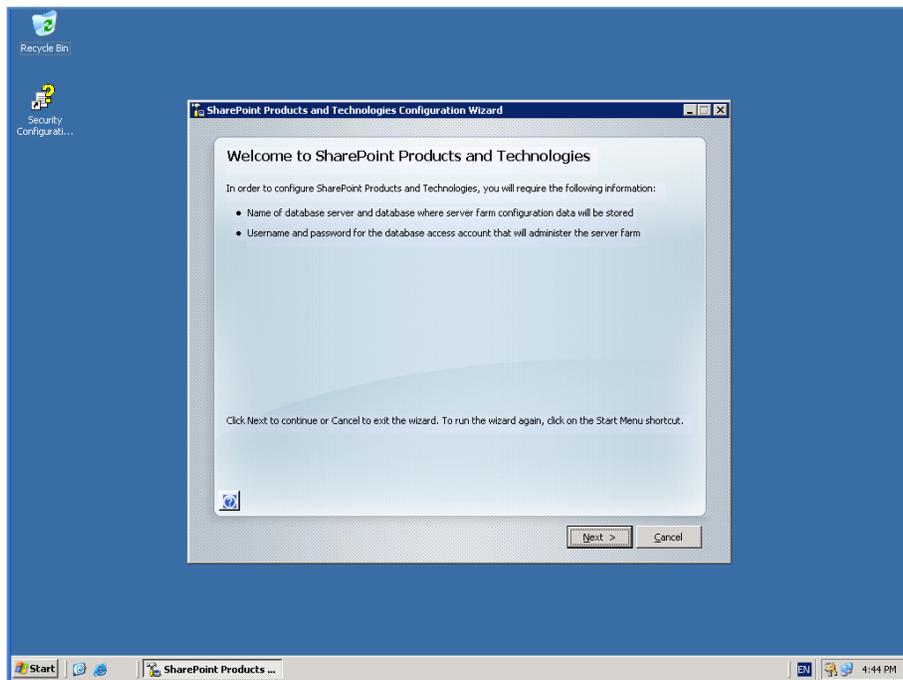
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



When the installation has successfully completed you will see the above window. By default, the *Run the SharePoint Products and Technologies Configuration Wizard now* option is selected. If you wish to configure MOSS at a later stage simply uncheck this option.

Press the **Close** button to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



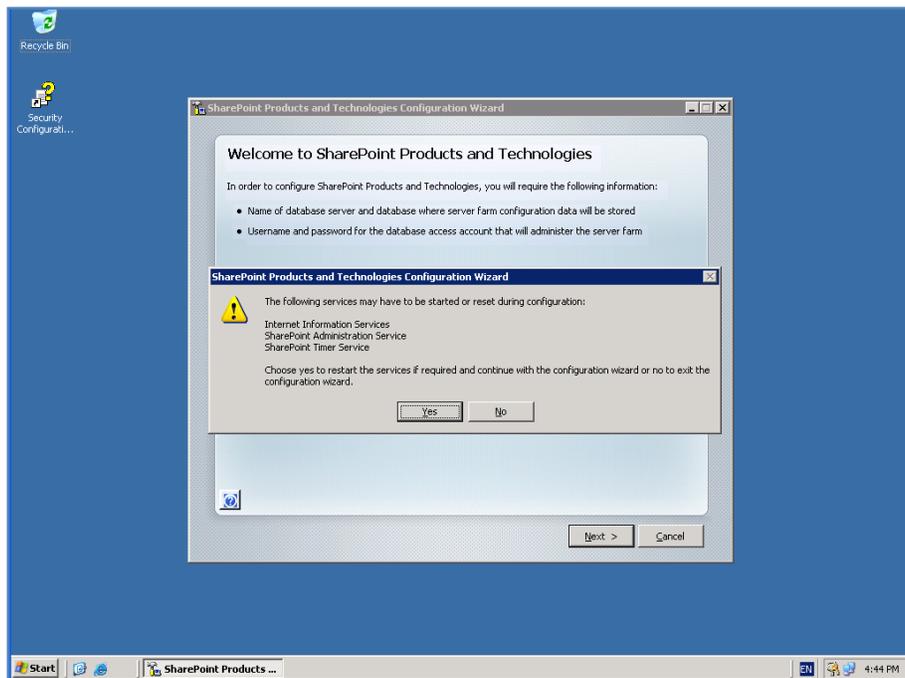
If you selected to run the configuration wizard then the following windows will appear.

The window warns you that to complete the wizard you will require:

- Name of the database server and database where the server farm configuration will be stored. You must have this database in place prior to proceeding.
- Username and password for the database access account that will administer the server farm.

Press the **Next** button to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



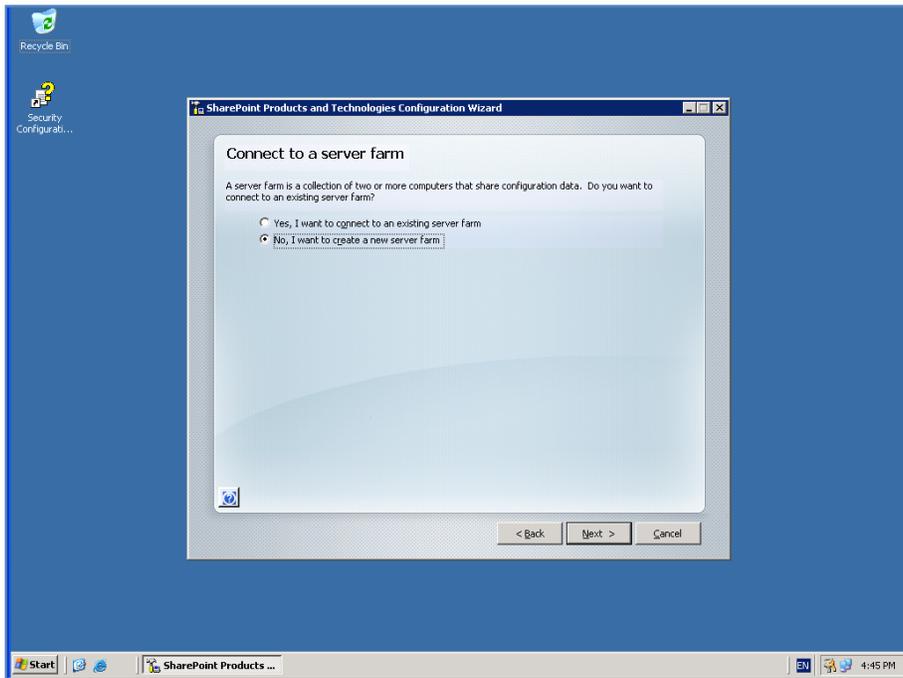
You will now receive a warning that the wizard will start or restart the following services

- Internet Information Services (IIS)
- SharePoint Administration Service
- SharePoint Timer Service

You need to be aware that this operation may have an impact on other applications that uses these services which could affect network users interacting with them.

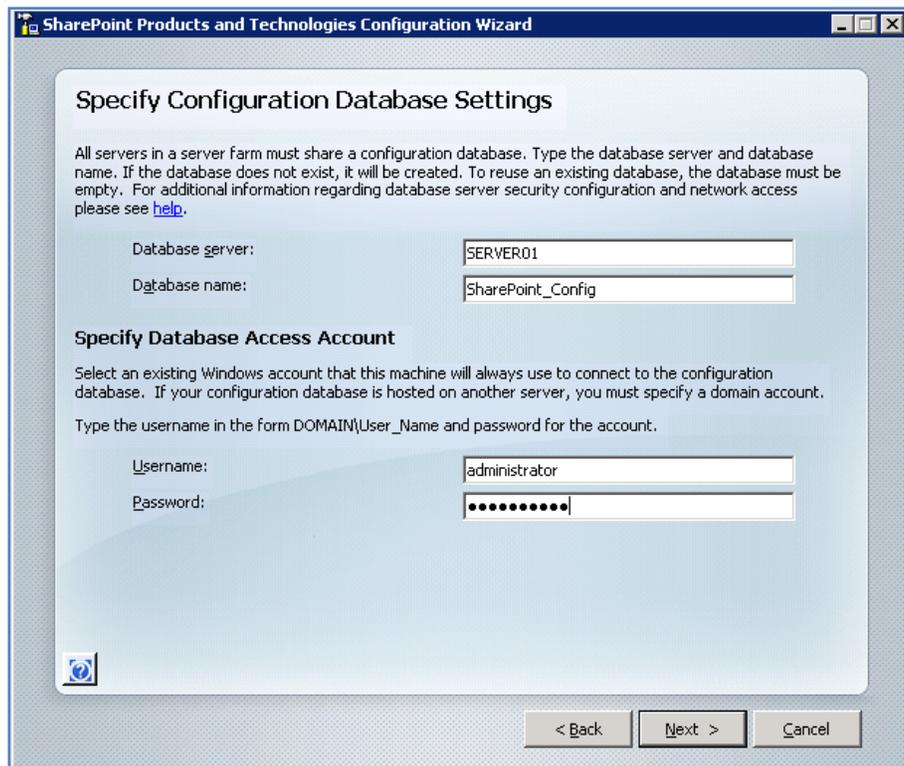
If you wish to proceed with the installation press the **Yes** button.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



You are now presented with the option to either connect to an existing MOSS 'SharePoint farm' or create a new farm. In this case because this is a new installation, select – *No, I want to create a new server farm* and press the **Next** button to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Because you selected the option to create a new farm you will now be prompted for the location of your database server. The Advanced Installation option selected previously does not automatically install Microsoft SQL Server 2005 Express Edition and thus you need to already have a compatible database server available on your network. Typically, this database server will be Microsoft SQL Server (2000, 2005 Express, 2005 Workgroup, 2005 Standard, 2008 Express, etc). For more information about the MOSS database options see the Chapter on Database Operations.

Note that you may be required to enter your database name as `<SERVER>\<INSTANCE>` (but generally `<SERVER>` is fine and the database access account as `<domain>\<username>`). By default, the MOSS configuration database will be called `SharePoint_config`, which you are able to change if desired.

When these options are complete, press the **Next** button to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

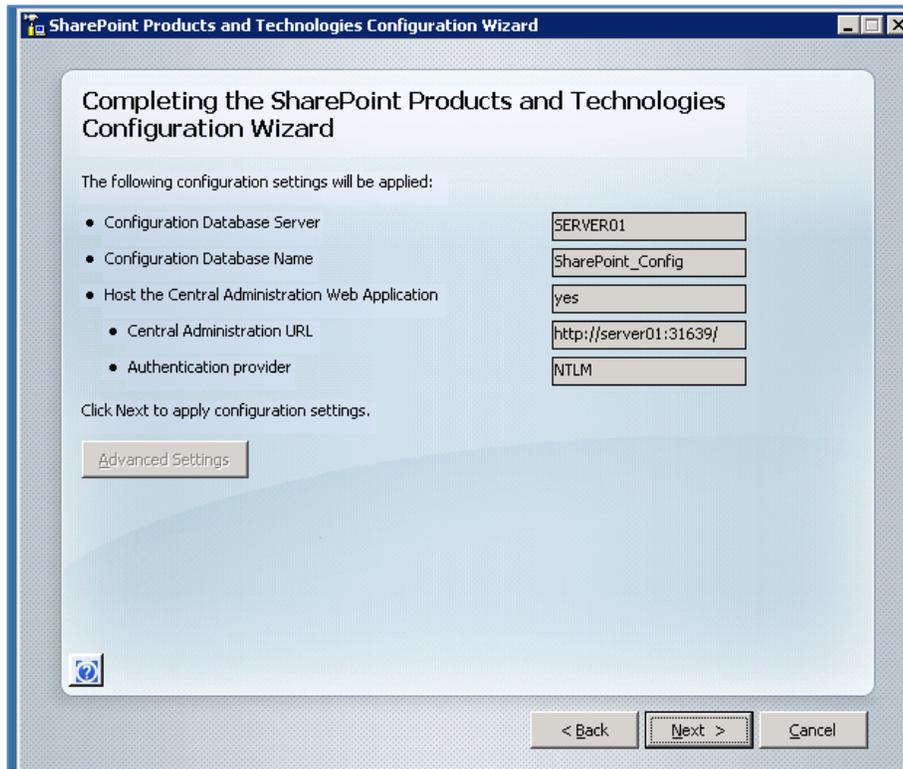


Now you will be prompted to set the SharePoint Central Administration Web Site port number if you want. By default, the installation will choose a random port. This configuration will ensure that the SharePoint Central Administration site doesn't conflict with an existing web site (especially the default web site on port 80). It is recommended that you leave this option unchecked so the installation can select a free port or set it to something like 5000 to make it easier to remember.

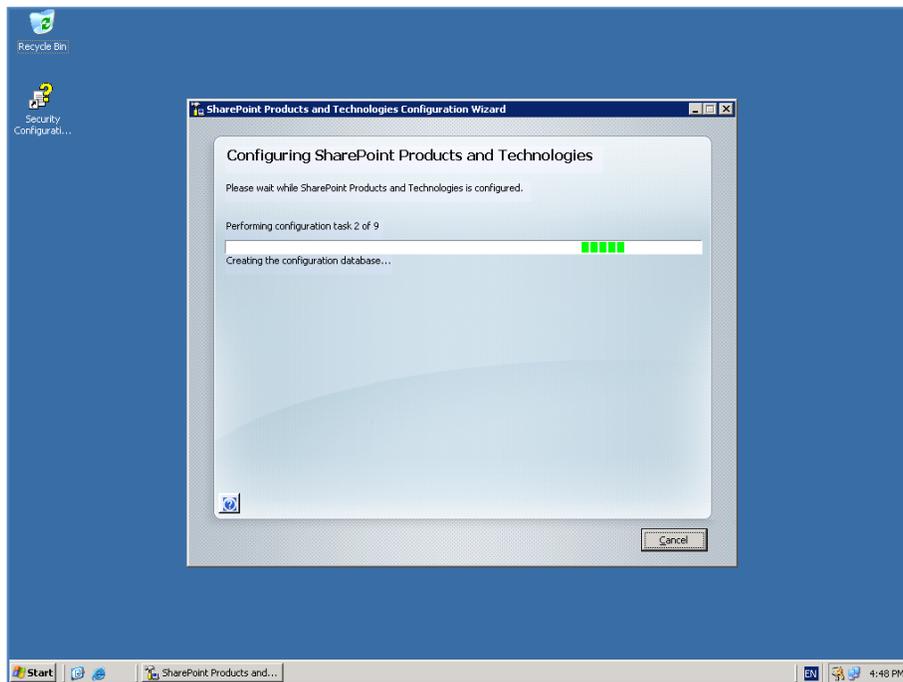
You are also prompted for the authentication provider required for MOSS security. This provider is referenced by MOSS to determine who has access to the information in MOSS. It is possible to change this at a later stage, however initially it is recommended that it be left as NTLM.

When this is complete press the **Next** button to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



You are now finally presented with a summary of your installation choices. After reviewing these press the **Next** button to continue.



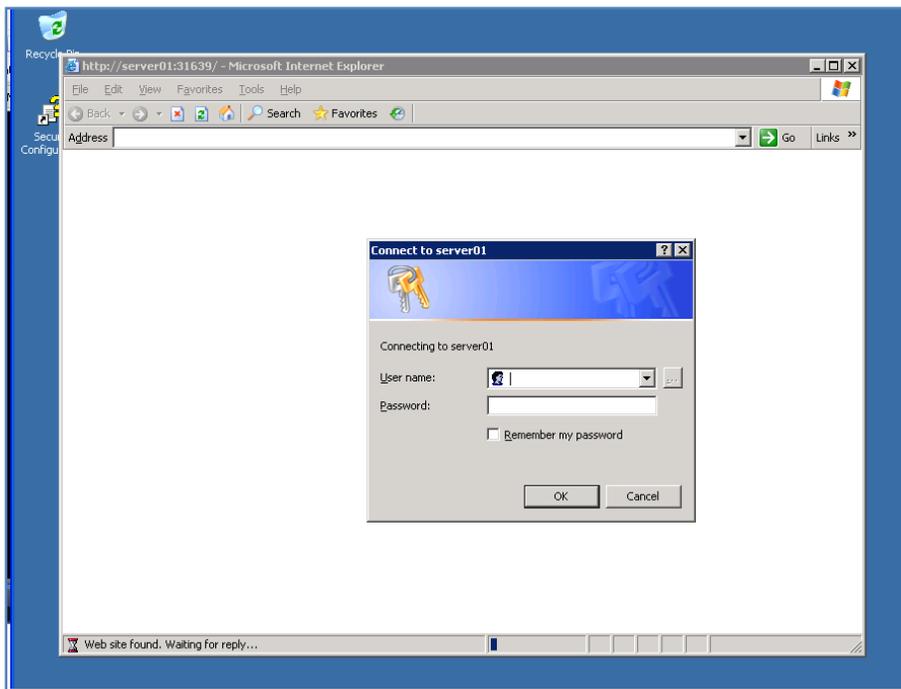
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The configuration wizard will now run through nine or so stages to complete the configuration on the server. During this process there is no option to enter further information and the only option available is to press the **Cancel** button to halt the process.

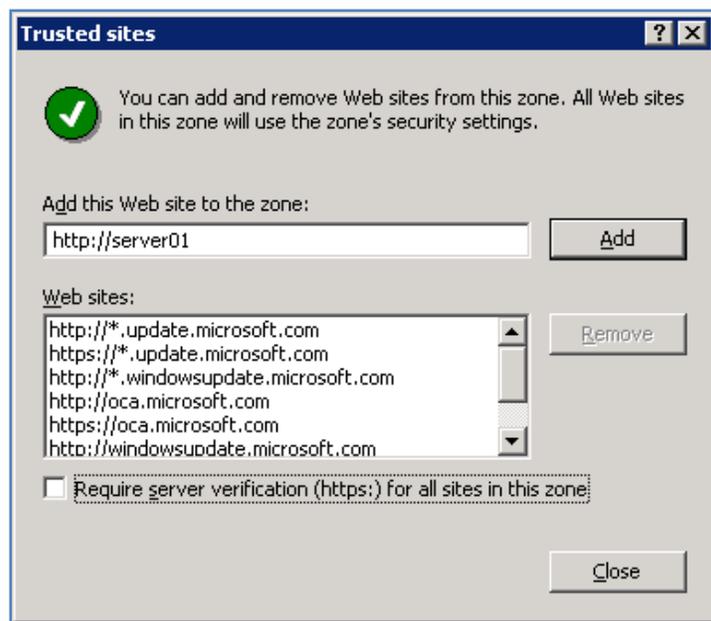


Once the wizard has completed all the steps you will see the above summary screen indicating that the configuration was successful. Press the **Finish** button to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

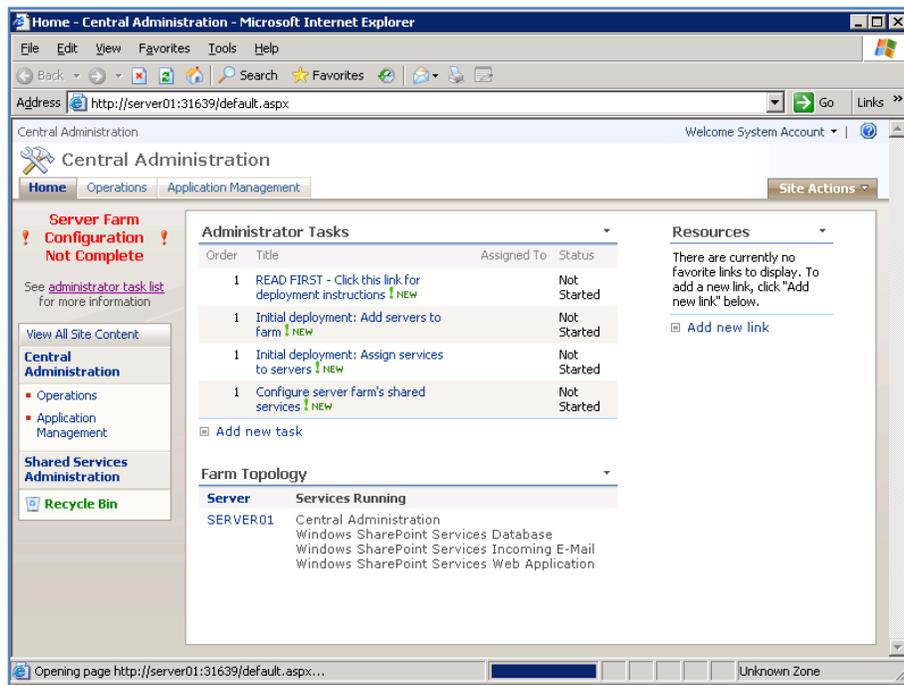


The server will now attempt to display the *SharePoint Central configuration* page. You may need to enter the administrator login credential to gain access.



It is also recommended that you take the opportunity to add the site into the safe sites for the browser.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

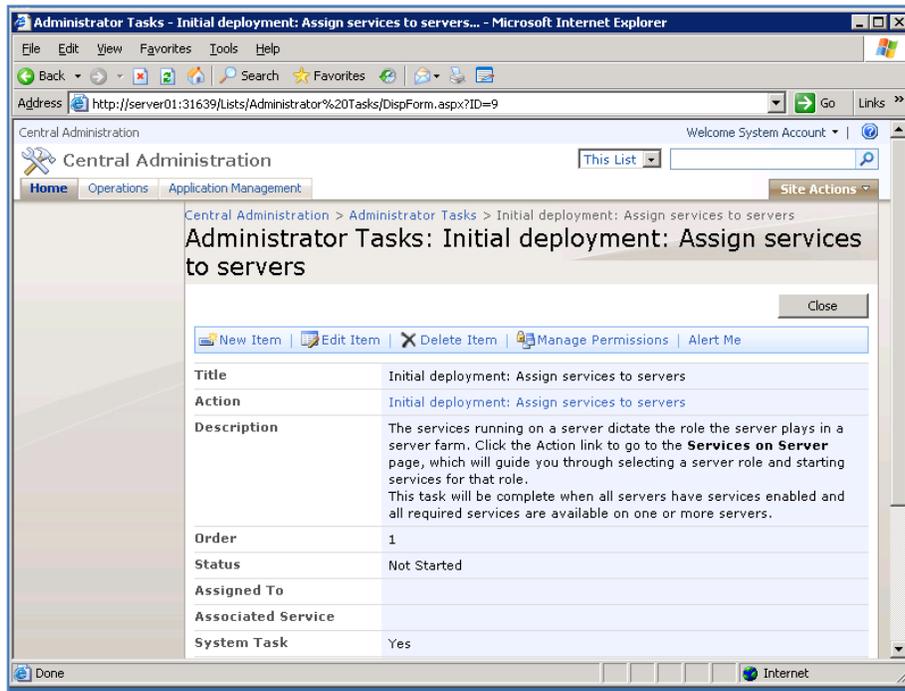


Since the Advanced Installation option was selected at the beginning of this process you now need to configure MOSS server services, an SSP, web site and site collection. This is done through the *SharePoint Central Administration* which is automatically displayed upon the completion of the configuration wizard.

If you plan to join additional servers to this farm it is advisable to do so before proceeding.

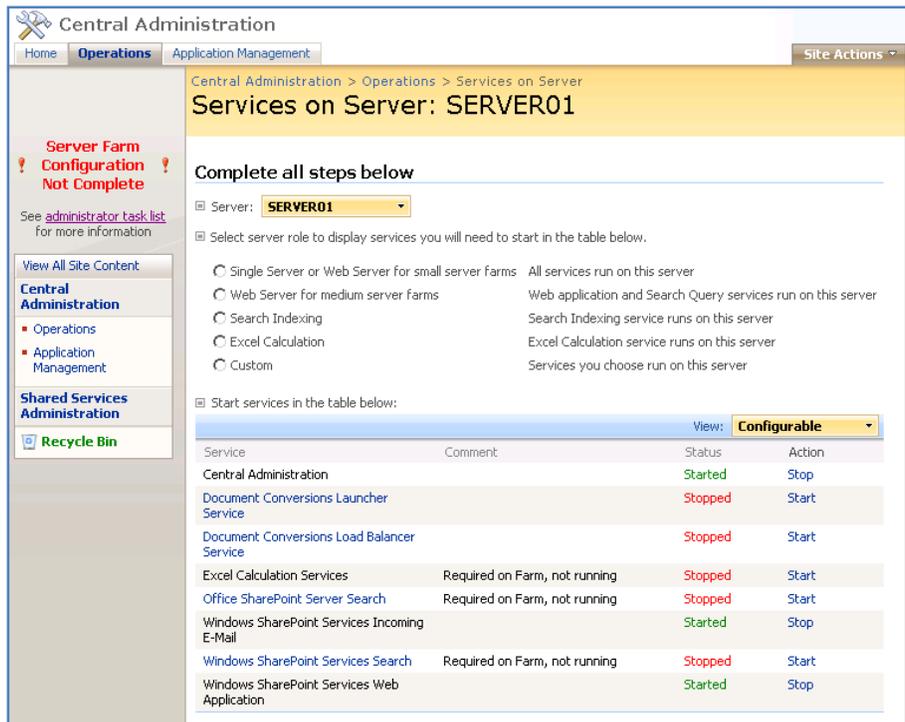
Once any additional servers have been added to the farm select the third option on the list *Initial deployment: Assign services to servers*.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



You will now see a description of what will be accomplished with this task.

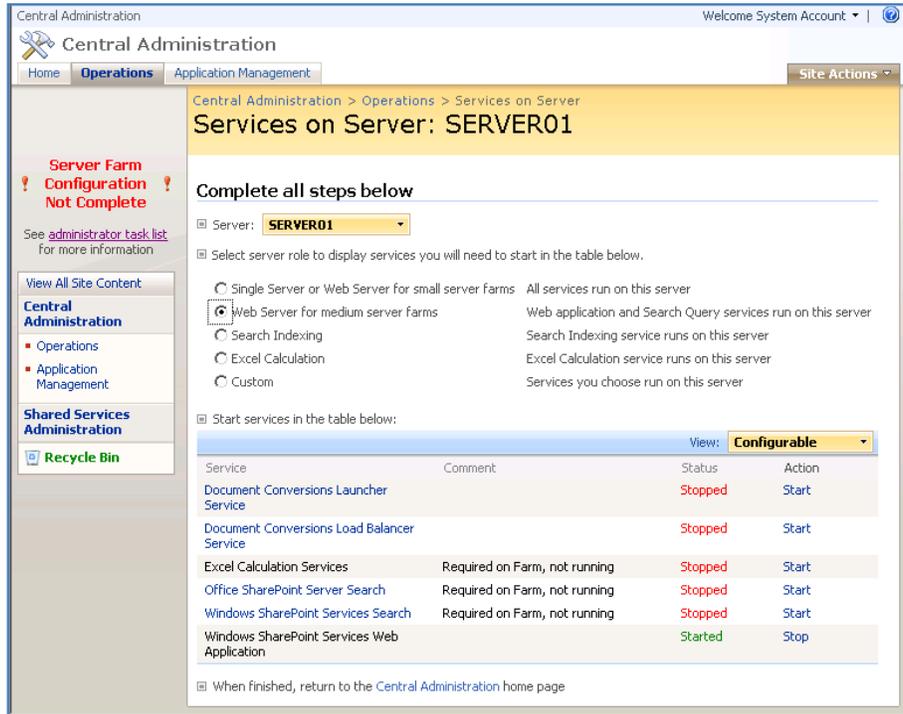
Click the link *Initial deployment: Assign services to servers* to continue.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

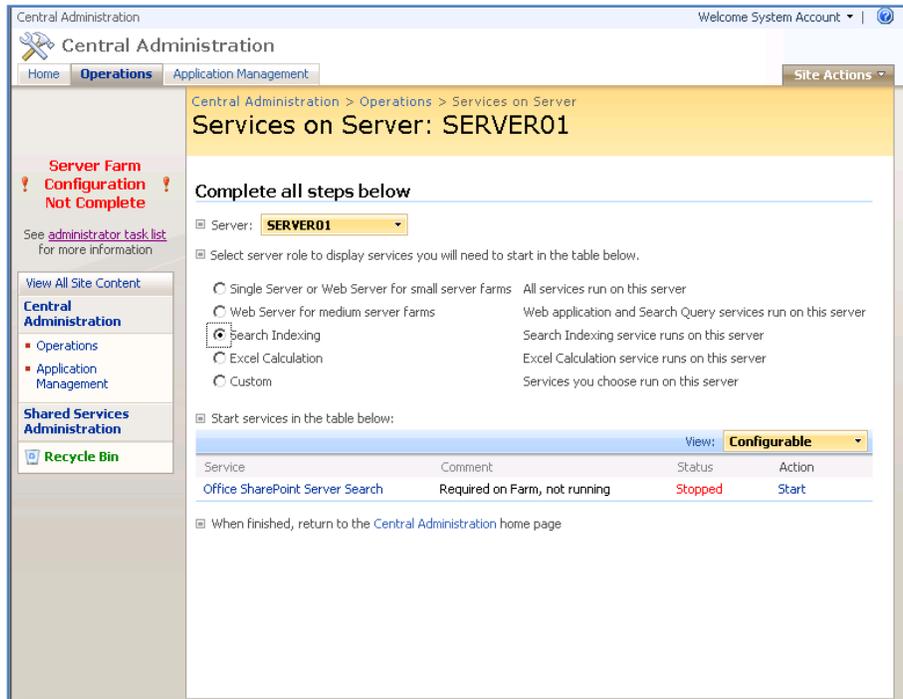
Here you will see a list of all the services for the farm.

At the top you will see the option to select the role for the current server. Select any of these options will show you what services are required on that server.

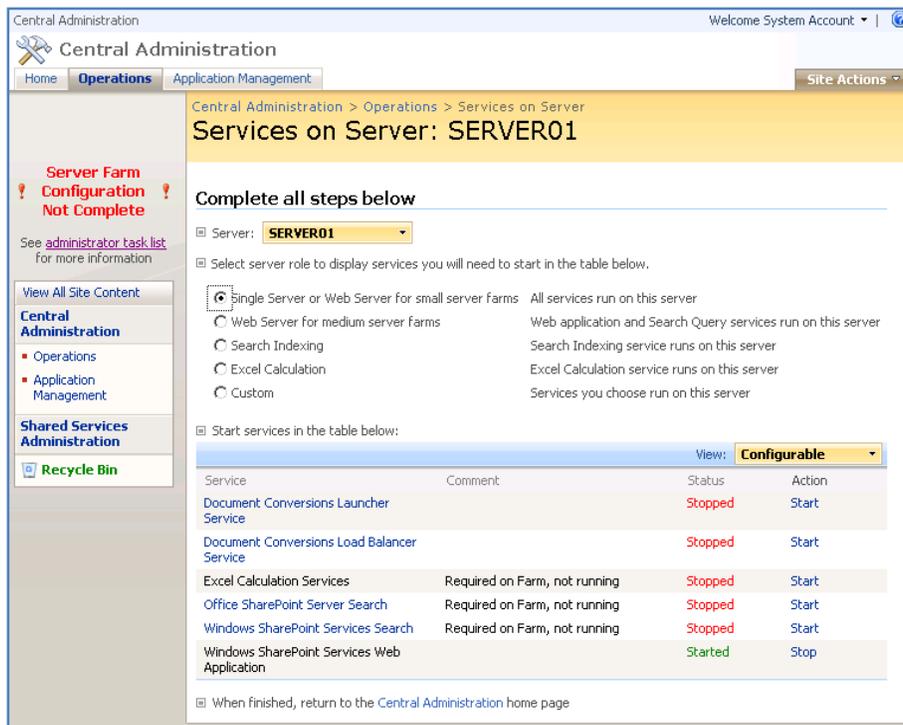


If, for example, you click the *Web Server for medium server farms* options the number of services shown in the lower portion of the window will change.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



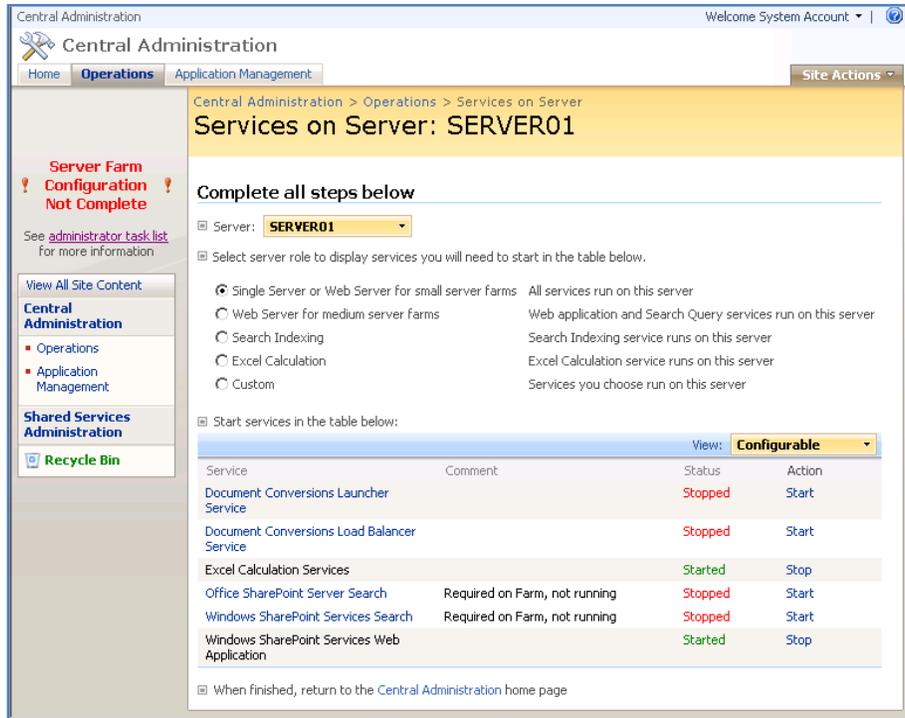
If you select the option *Search Indexing* in the top section you again will see the services required changed in the bottom part of the window.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

In this configuration we currently only have a single server available select the option *Single Server or Web Server for small server farms*.

In the list of services shown below you will note in the comment field that some services are *Required on Farm, not running*. Before proceeding further these services must be started.



Central Administration

Central Administration > Operations > Services on Server

Services on Server: SERVER01

Complete all steps below

Server: SERVER01

Select server role to display services you will need to start in the table below.

- Single Server or Web Server for small server farms: All services run on this server
- Web Server for medium server farms: Web application and Search Query services run on this server
- Search Indexing: Search Indexing service runs on this server
- Excel Calculation: Excel Calculation service runs on this server
- Custom: Services you choose run on this server

Start services in the table below:

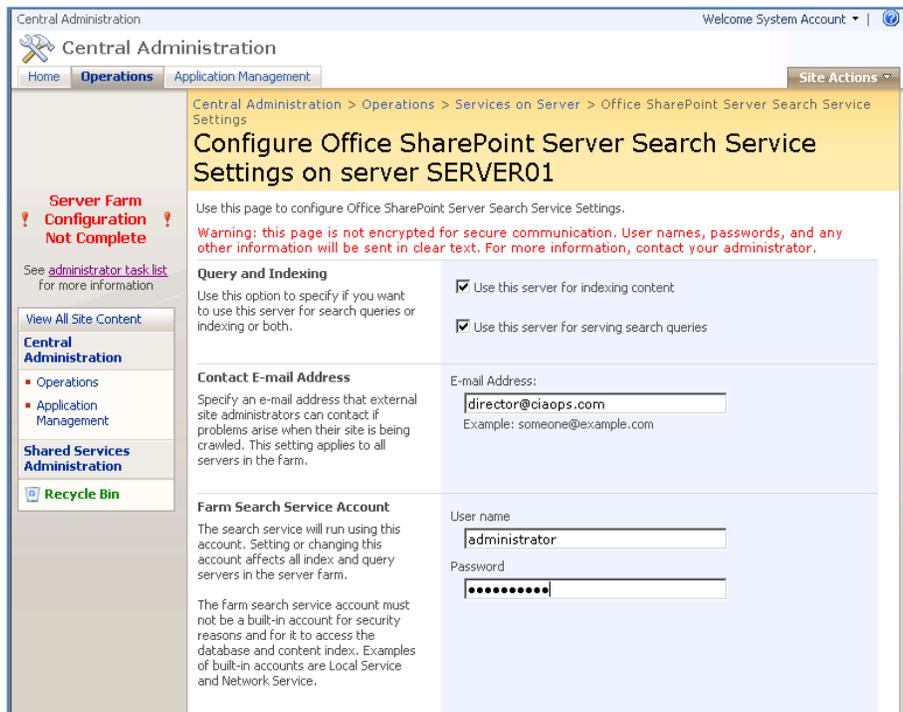
Service	Comment	Status	Action
Document Conversions Launcher Service		Stopped	Start
Document Conversions Load Balancer Service		Stopped	Start
Excel Calculation Services			
Office SharePoint Server Search	Required on Farm, not running	Stopped	Start
Windows SharePoint Services Search	Required on Farm, not running	Stopped	Start
Windows SharePoint Services Web Application		Started	Stop

When finished, return to the Central Administration home page

To start the *Excel Calculation Services* service simply click on the **Start** link under the *Action* column to the right of that row.

Once the service is started you will see that its status has changed from *Stopped* to *Started* (also now displayed in green) and the *Action* field has changed to *Stop* as shown above.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Click the **Start** link for the row that corresponds to the *Office SharePoint Server Search Service* to the right of the row.

You will now be taken a page to configure this service as shown above. Since this is a single server installation check both options in the *Query and Indexing* section (i.e. Use this server for indexing content and Use this server for serving search queries).

Now enter a suitable contact email address and an account for performing search on the farm.

When this is complete scroll down for more options.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

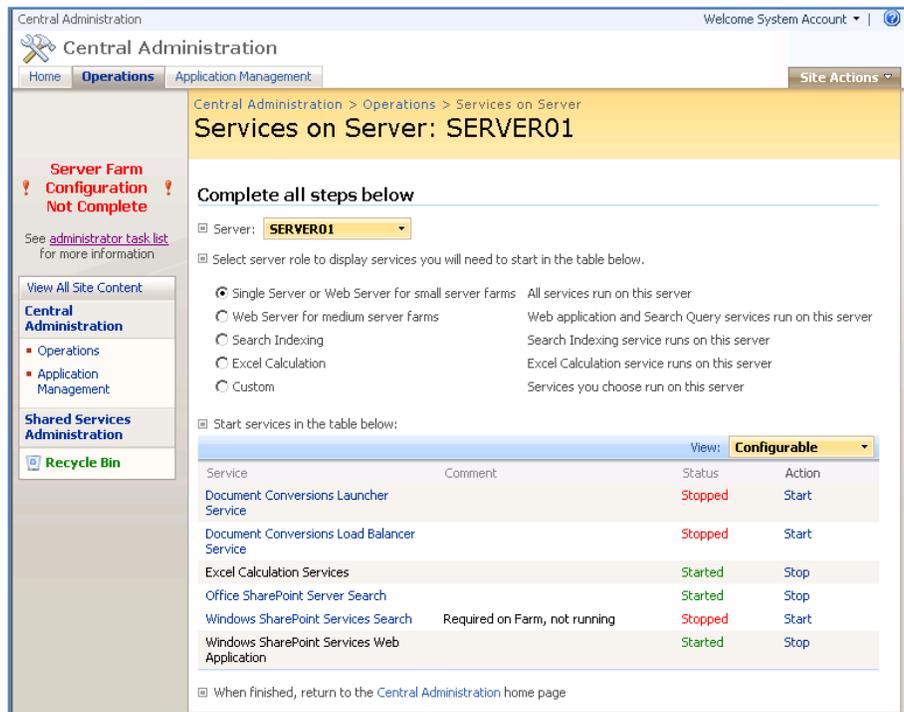
Index Server Default File Location The search index will be located at this path by default on this server. For index servers, you can specify a different path when you create a Shared Services Provider. To change this index file location for an existing Shared Services Provider, use the command stsadm.exe -o editssp.	Default index file location: <input type="text" value="C:\Program Files\Microsoft Office Serv"/>
Indexer Performance Indexing information can place a large load on the local SQL Server database and might slow down the responsiveness of the local SharePoint sites. However, reducing the maximum allowed indexing activity will slow down the speed at which items are indexed, and therefore might cause search results to be outdated. Use information about the local server load to select the appropriate indexer performance level.	<input type="radio"/> Reduced <input checked="" type="radio"/> Partly reduced <input type="radio"/> Maximum
Web Front End And Crawling Use this option to specify a dedicated web front end for crawling. Crawling through a dedicated web front end will reduce the impact of crawling on the other web front ends in the farm. If your index server is not running other shared services, it is recommended to enable the web front end role on this computer and use it as the dedicated web front end for crawling. If your index server is also running the Excel Calculation service or other shared services, select no dedicated web front end for crawling. Otherwise,	<input checked="" type="radio"/> Use all web front end computers for crawling <input type="radio"/> Use a dedicated web front end computer for crawling <input type="text" value="SERVER01"/>

You can elect to change the Indexer Performance but it is recommended you leave it as *Partly reduced* in this case.

When you have additional machines in a MOSS farm you can elect to dedicate one of these solely to perform indexing. In this case we only have a single server so leave the default setting for *Web Front End And Crawling* as the default.

When complete scroll down the page and press the **OK** button to save this configuration.

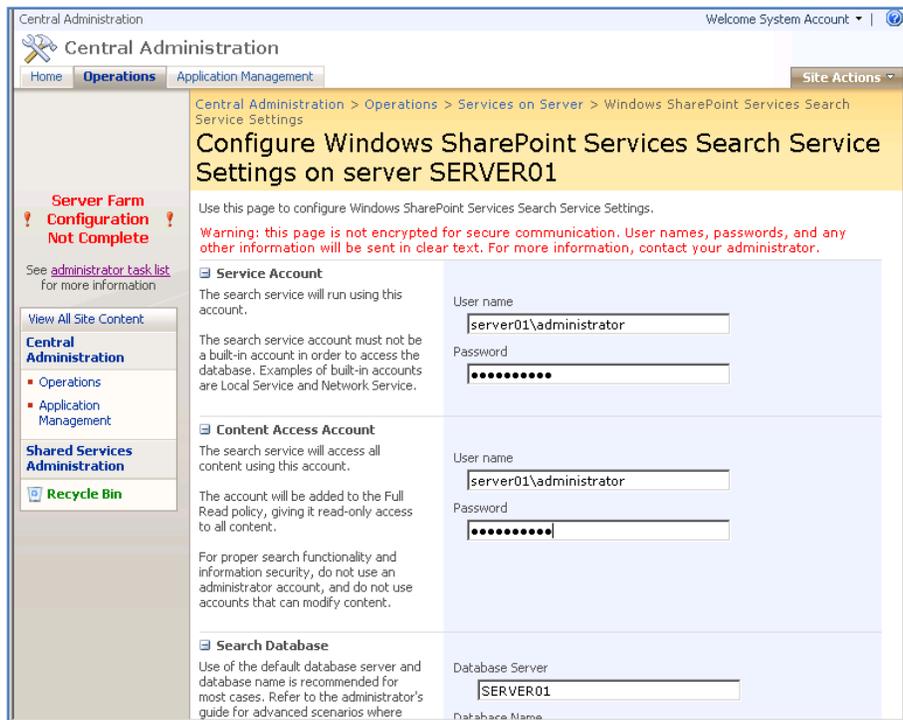
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



When the configuration process is complete you are returned to the *Services on Server page* and will note that the service *Office SharePoint Server Search* is started.

Click on **Start** option for the remaining option to be configured for the farm, the *Windows SharePoint Services Search*.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Upon clicking the **Start** link you will be prompted to complete the configuration for this service.

Enter a *Service Account* that will run this service. Ensure that you enter these details in the format of <domain\user>.

Now enter an account for the *Content Access*. You may choose to make this the same account if desired.

Scroll down the page for further options.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

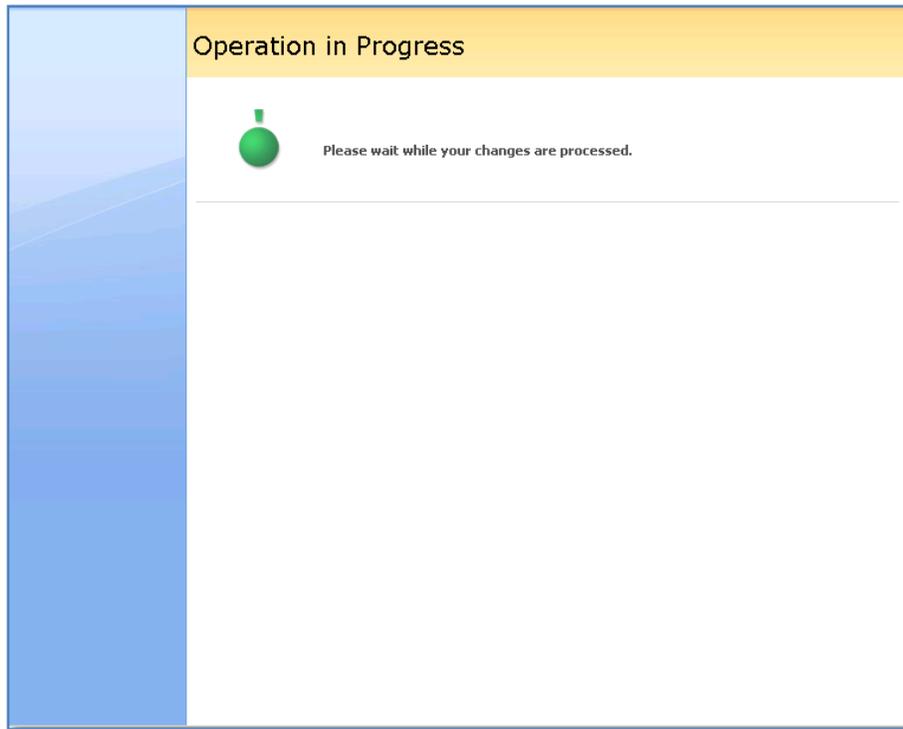
The screenshot shows a configuration window for the Search Database. It is divided into two main sections: 'Search Database' and 'Indexing Schedule'.
Search Database Section:
- A warning message at the top: 'For proper search functionality and information security, do not use an administrator account, and do not use accounts that can modify content.'
- A section titled 'Search Database' with instructions: 'Use of the default database server and database name is recommended for most cases. Refer to the administrator's guide for advanced scenarios where specifying database information is required.'
- Another instruction: 'Use of Windows authentication is strongly recommended. To use SQL authentication, specify the credentials which will be used to connect to the database.'
- Fields for 'Database Server' (containing 'SERVER01') and 'Database Name' (containing 'WSS_Search_SERVER01').
- 'Database authentication' options: 'Windows authentication (recommended)' is selected with a radio button. 'SQL authentication' is unselected.
- Fields for 'Account' and 'Password' are present but empty.
Indexing Schedule Section:
- A section titled 'Indexing Schedule' with the instruction: 'Configure the indexing Schedule.'
- 'Indexing schedule:' options: 'Every 5 Minutes' is selected with a radio button. 'Hourly between [] and [] minutes past the hour' and 'Daily' are unselected.
- 'Daily' options: 'Between 12 AM and 12 AM' is selected with radio buttons and dropdown menus.
- At the bottom right, there are 'Start' and 'Cancel' buttons.

You should find that the *Database Server* name and *Database Name* fields have automatically been completed. You can change either of these if desired as well as the *Database authentication*.

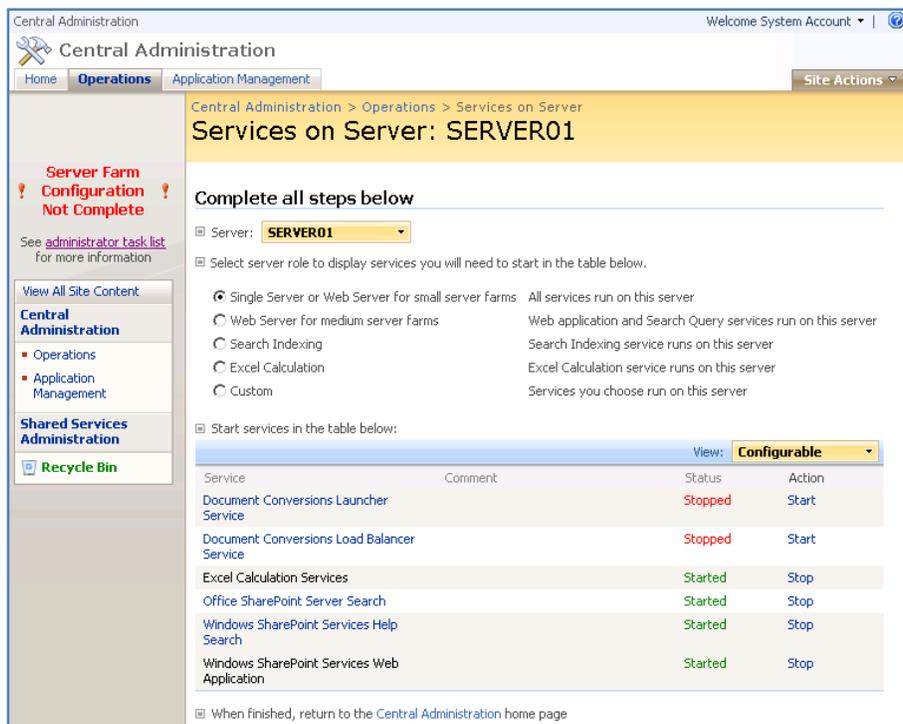
In the last section you will need to complete how often you wish the indexing to schedule. In most cases it is recommended that you accept the default.

Press the **Start** button when the configuration changes are complete.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



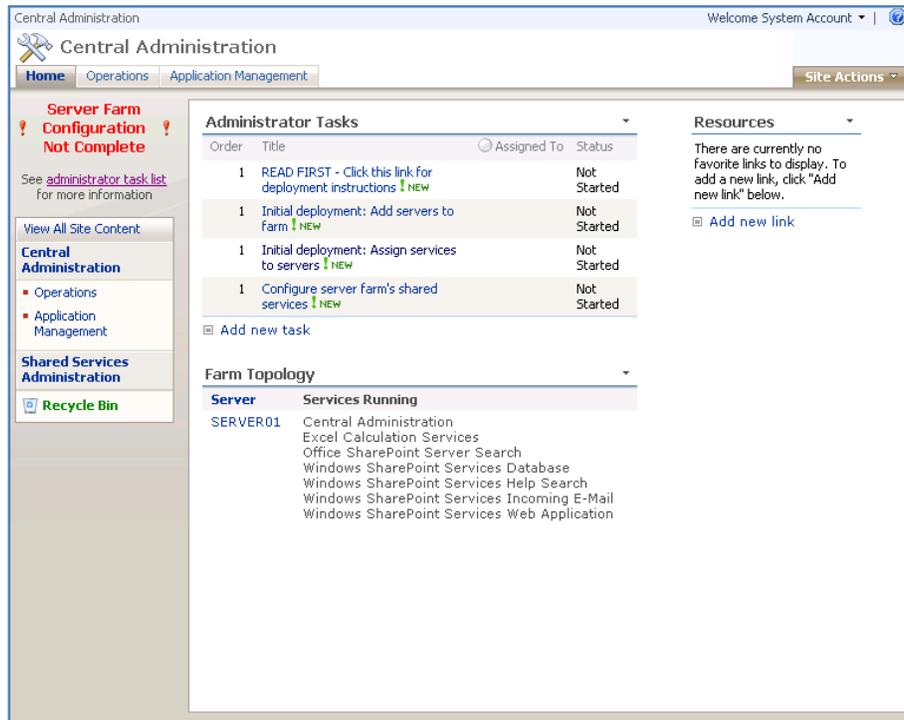
You should now see a window indicating that these services are being configured.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

When this configuration is complete you will be returned to the *Services on Server* screen.

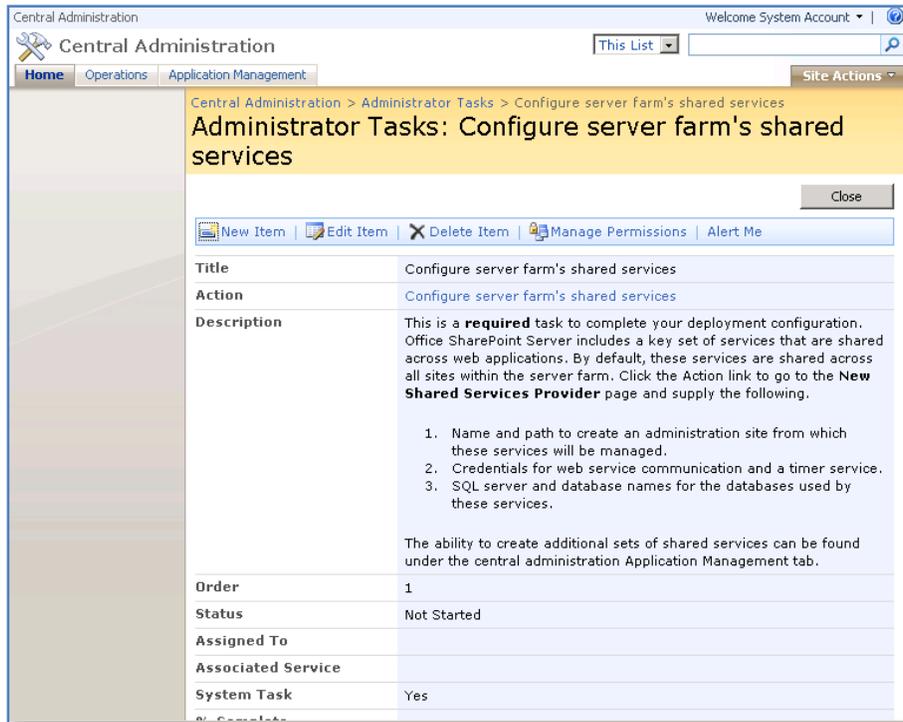
You should now see that there are no longer any services that are required on the farm that are not running.



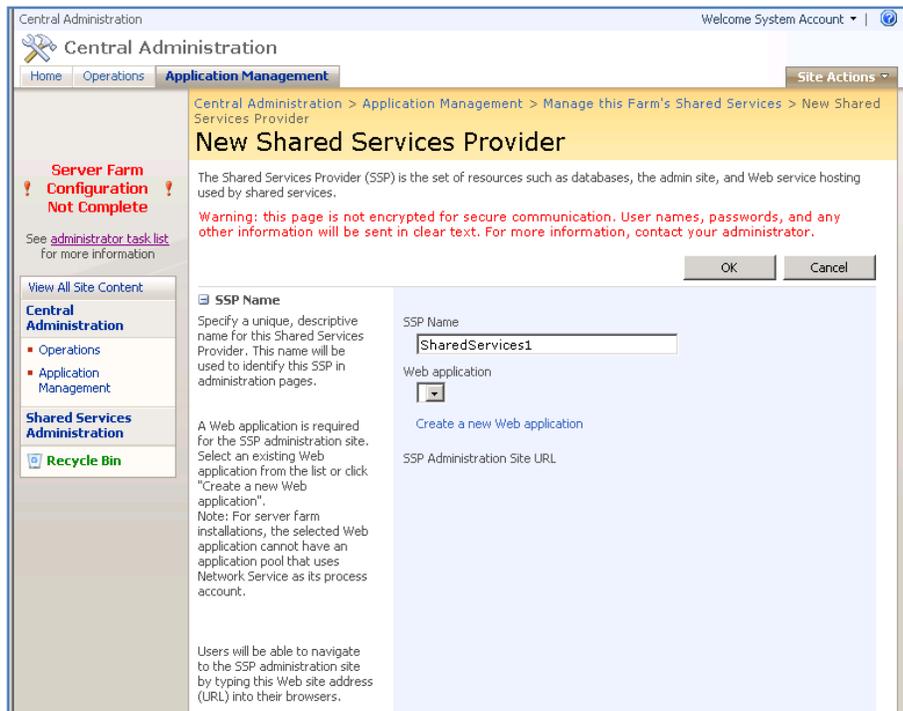
Return to the *Central Administration Home* page by pressing the **Home** tab in the top left of the screen.

Now select the fourth option on the list *Configure server farm's shared services*.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



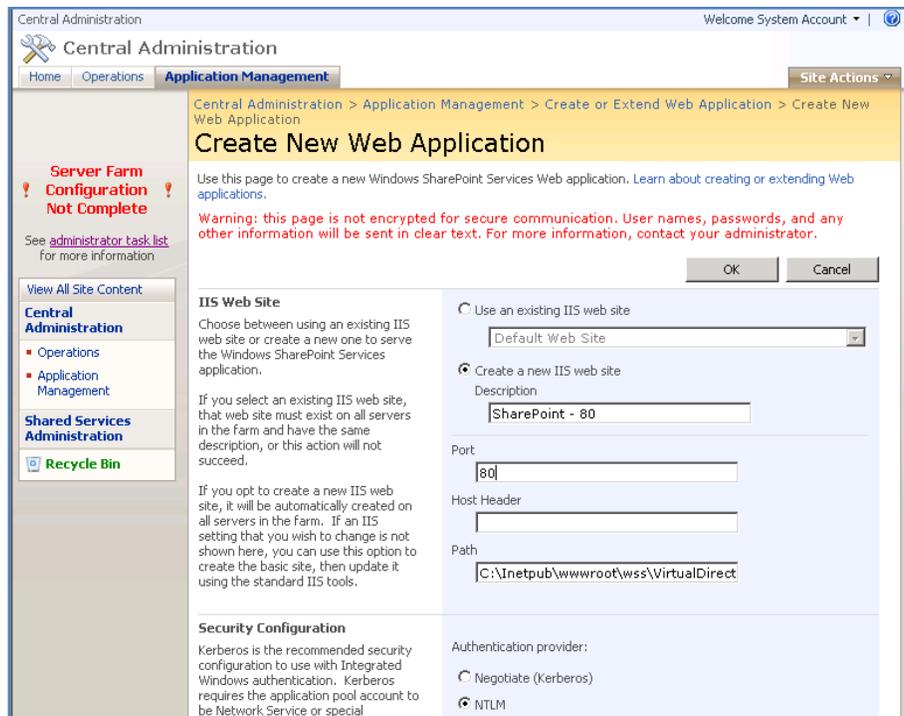
At the summary screen select the hyperlink *Configure server farm's shared services*.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

You will now be placed in a Windows that allows you to create a new *Shared Services Provider* (SSP). An SSP is a collection of farm services, such as profiles, configuring global search and creating audience groups that are available to different web applications and site collections.

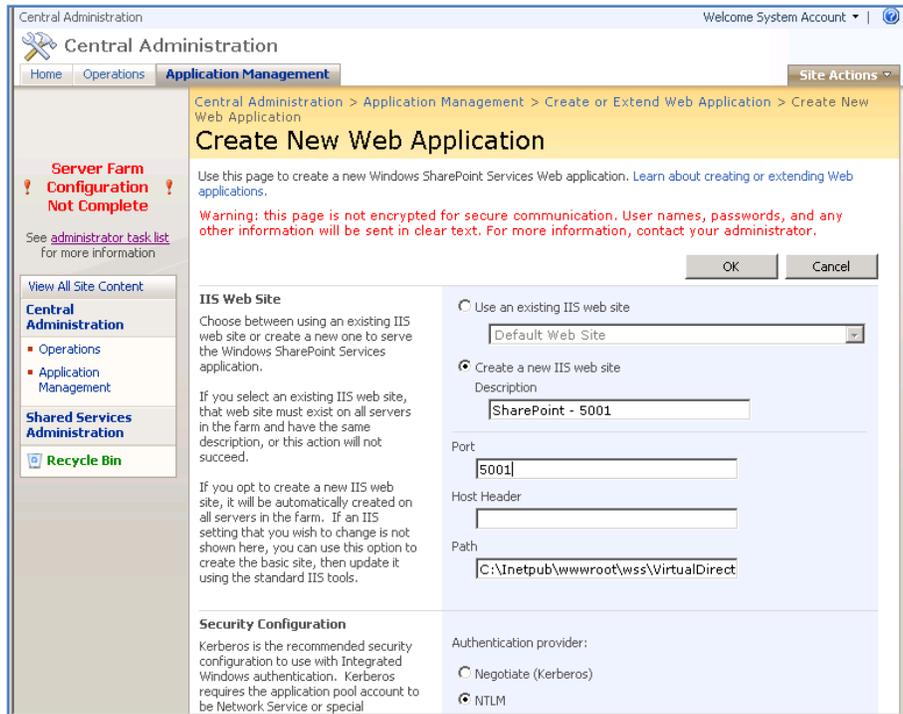
You should configure a new Web application to host the SSP so select the hyperlink *Create a new web application* to continue.



By default the new web application will show Port 80 but generally you should configure the SSP on another port since the SharePoint site itself will operate on Port 80.

Select the Port section (that currently show 80) and change it to something like 5001.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Now that the SSP web site port is changed return to the *Description* field and modify the description to reflect the new port as shown above.

When complete, scroll down the page for more options.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The screenshot shows the 'Security Configuration' section of the SharePoint installation wizard. It is divided into three main sections: Security Configuration, Load Balanced URL, and Application Pool. The Security Configuration section includes instructions on Kerberos and SSL, with radio buttons for 'Negotiate (Kerberos)', 'NTLM', 'Allow Anonymous' (Yes/No), and 'Use Secure Sockets Layer (SSL)' (Yes/No). The Load Balanced URL section has a text box for the URL (http://SERVER01:5001) and a dropdown for the Zone (Default). The Application Pool section has radio buttons for 'Use existing application pool' (DefaultAppPool) and 'Create new application pool' (SharePoint - 5001), with a dropdown for the security account (Network Service) and radio buttons for 'Predefined' and 'Configurable'.

Security Configuration Kerberos is the recommended security configuration to use with Integrated Windows authentication. Kerberos requires the application pool account to be Network Service or special configuration by the domain administrator. NTLM authentication will work with any application pool account and the default domain configuration. If you choose to use Secure Sockets Layer (SSL), you must add the certificate on each server using the IIS administration tools. Until this is done, the web application will be inaccessible from this IIS Web Site.	Authentication provider: <input type="radio"/> Negotiate (Kerberos) <input checked="" type="radio"/> NTLM Allow Anonymous: <input type="radio"/> Yes <input checked="" type="radio"/> No Use Secure Sockets Layer (SSL): <input type="radio"/> Yes <input checked="" type="radio"/> No
Load Balanced URL The load balanced URL is the domain name for all sites users will access in this SharePoint Web application. This URL domain will be used in all links shown on pages within the web application. By default, it is set to the current servername and port.	URL <input type="text" value="http://SERVER01:5001"/> Zone <input type="text" value="Default"/>
Application Pool Choose the application pool to use for the new web application. This defines the account and credentials that will be used by this service. You can choose an existing application pool or create a new one.	<input type="radio"/> Use existing application pool <input type="text" value="DefaultAppPool (Network Service)"/> <input checked="" type="radio"/> Create new application pool Application pool name <input type="text" value="SharePoint - 5001"/> Select a security account for this application pool <input type="radio"/> Predefined <input type="text" value="Network Service"/> <input checked="" type="radio"/> Configurable

Unless you have Kerberos configured on your network leave the *Authentication provider* set to NTLM. It is also recommended that you leave the *Allow Anonymous* and *Use Secure Sockets layer (SSL)* options set to *No*.

The URL in the *Load Balanced URL* section should reflect the port number you selected above. If not simply click in the field to update it.

Scroll down the page to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The screenshot shows the 'Application Pool' configuration wizard. It is divided into three main sections:

- Application Pool:** Contains instructions on choosing an application pool. The right-hand side has two radio buttons: 'Use existing application pool' (selected) and 'Create new application pool'. Under 'Use existing', a dropdown menu shows 'DefaultAppPool (Network Service)'. Under 'Create new', there is a text box for 'Application pool name' containing 'SharePoint - 5001'. Below that, there are two radio buttons: 'Predefined' (selected) and 'Configurable'. Under 'Predefined', a dropdown menu shows 'Network Service'. Under 'Configurable', there are text boxes for 'User name' (containing 'administrator') and 'Password' (containing a series of dots).
- Reset Internet Information Services:** Contains instructions on allowing SharePoint to restart IIS. There are two radio buttons: 'Restart IIS Automatically' (selected) and 'Restart IIS Manually'.
- Database Name and Authentication:** Contains instructions on using the default database server. There are two text boxes: 'Database Server' (containing 'SERVER01') and 'Database Name' (containing 'WSS_Content').

It is recommended that you create a new application pool for the SSP. It is recommended that the name of the pool reflect the port you have chosen for the SSP previously. You will also need to configure a user name and password for this pool.

Select the option to *Restart IIS Automatically*.

Scroll down the screen for further choices.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Reset Internet Information Services
Use this section to allow SharePoint to restart IIS on other farm servers. The local server must be restarted manually for the process to complete. If this option is not selected and you have more than one server in the farm, you must wait until the IIS web site is created on all servers, and then run "isreset /noforce" on each Web server. The new IIS site will not be usable until that is completed.

Restart IIS Automatically
 Restart IIS Manually

Database Name and Authentication
Use of the default database server and database name is recommended for most cases. Refer to the administrator's guide for advanced scenarios where specifying database information is required.

Use of Windows authentication is strongly recommended. To use SQL authentication, specify the credentials which will be used to connect to the database.

Database Server
SERVER01

Database Name
WSS_Content

Database authentication
 Windows authentication (recommended)
 SQL authentication

Account
Password

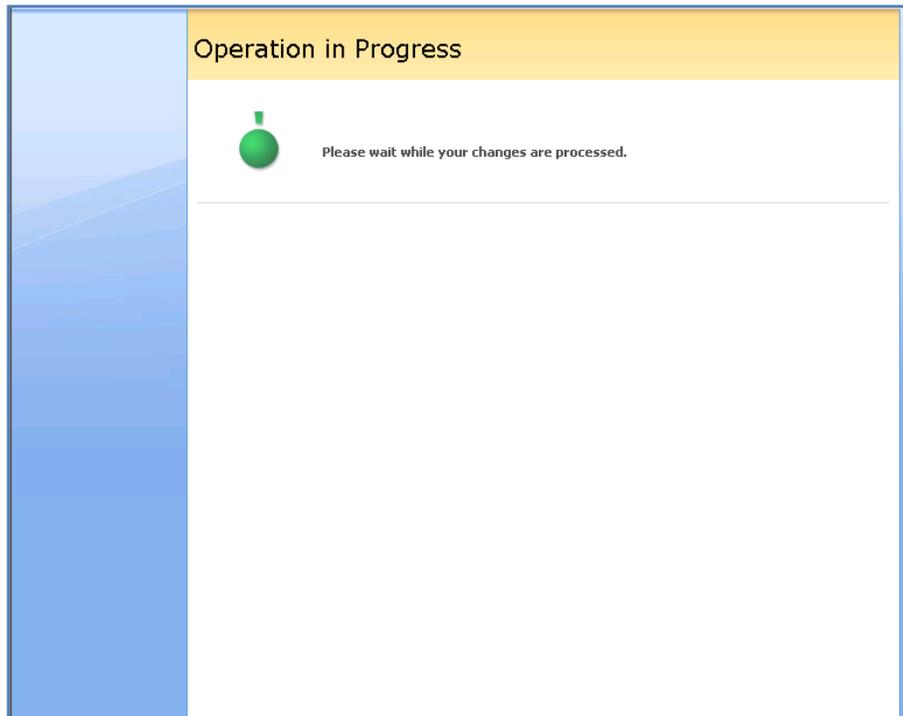
Search Server
Search service is provided by:
Office SharePoint Server Search

OK Cancel

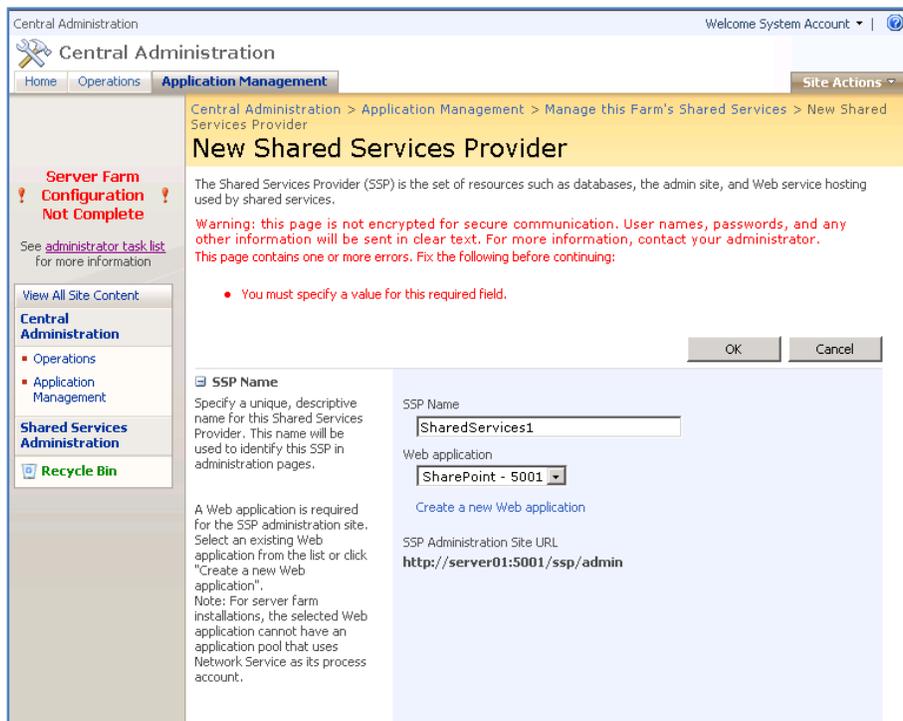
Enter the database server and database name for the SSP. By default the Database name will show WSS_Content. It is recommended that you change this to something that better reflects the fact that it will be hosting SSP information.

When complete press the **OK** button to proceed.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



The SSP web site will now be created according to parameters you just defined.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

You will now be returned to the *New Shared Services Provider* screen. You should now see that the Web application that has been assigned to the SSP is the one you just created (in this case SharePoint – 5001).

Scroll down the screen for more options.

My Site Location
A Web application is required for My Sites. This Web application will be used to host personal sites and profile pages. To use an existing Web application, select from the Web applications in the drop down list. If a new Web application is needed, select the "Create a new Web application" link. We recommend using a different Web application than the one used for the SSP administration site, so that you can backup and restore My Sites independently.
To host My Sites at a location other than the root, change the Relative URL.

SSP Service Credentials
Specify the credentials for the SSP Web services to use for inter-server communication and for running SSP-scoped timer jobs.

SSP Database
Each SSP requires a database for service specific data.
Use of the default database server and database name is recommended for most cases. Refer to the Office SharePoint Server TechCenter on TechNet for advanced scenarios where specifying database

Web application
SharePoint - 5001
[Create a new Web application](#)

My Site Location URL
http://server01:5001/
Relative URL
/

Username

You must specify a value for this required field.
Password

Database Server

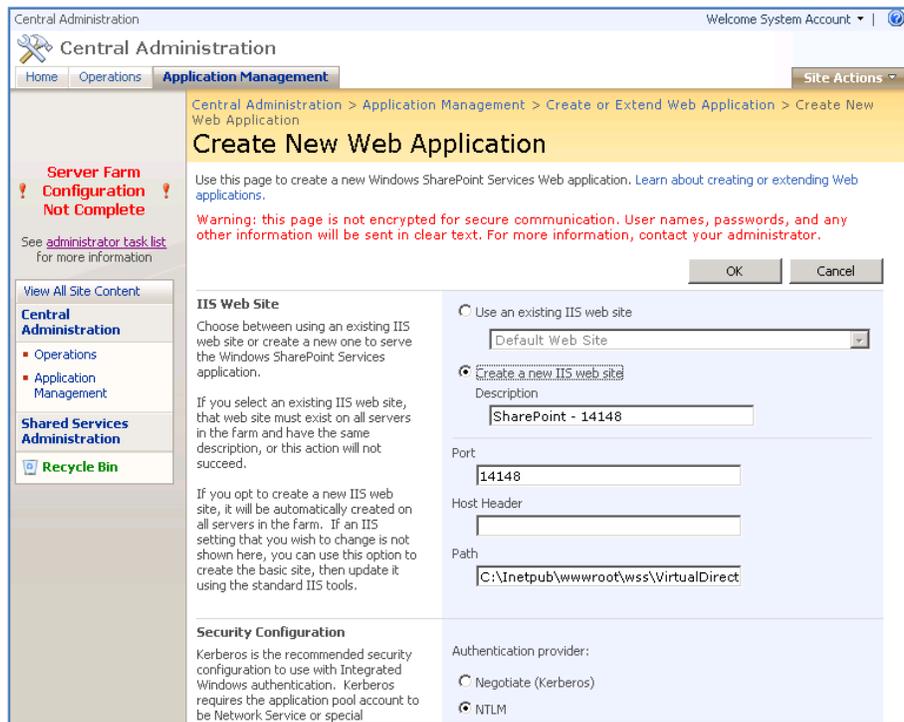
Database Name

Database authentication
 Windows authentication (recommended)

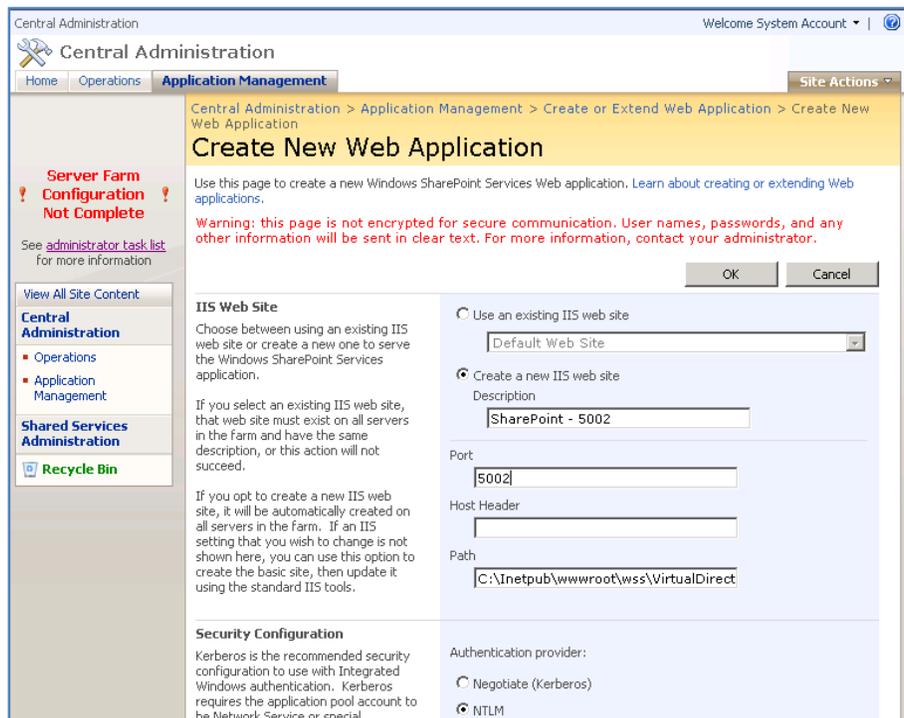
You now need to create another web application to host the users' personal *My Sites*.

It is recommended that you again create a separate web application to host this. To do this click on the link *Create a new Web application*.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



You will be returned to the *Create New Web Application* screen. This time you will notice that the port has defaulted to a random value. It is recommended that you change to something that is easy to remember.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

In this case the port has been changed to 5002. It is best practice to also make sure that the *Description* field provides matching information about the port so make any changes that are necessary before continuing.

Scroll down the page to view more options.

The screenshot displays the 'Security Configuration' page for SharePoint. It is divided into three main sections on the left and their corresponding configuration options on the right.

- Security Configuration:** Explains Kerberos and NTLM authentication. Kerberos is recommended but requires a special application pool account. NTLM works with any account. A note mentions that SSL requires a certificate on each server.
- Load Balanced URL:** Defines the domain name for all sites. The URL field is set to 'http://SERVER01:5002'.
- Application Pool:** Allows choosing an existing pool or creating a new one. The 'Create new application pool' option is selected, with the name 'SharePoint - 5002' and the security account 'Network Service' (Configurable).

Configuration options on the right include:

- Authentication provider:** NTLM, Negotiate (Kerberos)
- Allow Anonymous:** No, Yes
- Use Secure Sockets Layer (SSL):** No, Yes
- URL:**
- Zone:**
- Use existing application pool:** Use existing application pool (DefaultAppPool (Network Service))
- Create new application pool:** Create new application pool (Application pool name:
- Select a security account for this application pool:** Predefined (Network Service), Configurable

Again, generally leave the *Authentication provider* set to NTLM, *Allow Anonymous* and *Use Secure Sockets Layer (SSL)* set to No. The *Load Balanced URL* should reflect the value of the port you selected above. If not simply click in the field and it should automatically update.

Scroll down for more options.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The screenshot shows the 'Application Pool' configuration wizard. It is divided into three main sections:

- Application Pool:** Contains instructions on choosing an application pool. The 'Create new application pool' option is selected. The 'Application pool name' is 'SharePoint - 5002'. Under 'Select a security account for this application pool', the 'Configurable' option is selected. The 'User name' and 'Password' fields are empty.
- Reset Internet Information Services:** Contains instructions on restarting IIS. The 'Restart IIS Automatically' option is selected.
- Database Name and Authentication:** Contains instructions on the default database server. The 'Database Server' is 'SERVER01' and the 'Database Name' is 'WSS_Content_fa36d03edeab4798bce2'.

It is recommended that you create a new application pool for this web site. Enter a suitable user name and password into the Configuration fields.

Select the option to *Restart IIS Automatically*.

Scroll down the screen for more options.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The screenshot shows a configuration window for SharePoint Server installation. It is divided into three main sections:

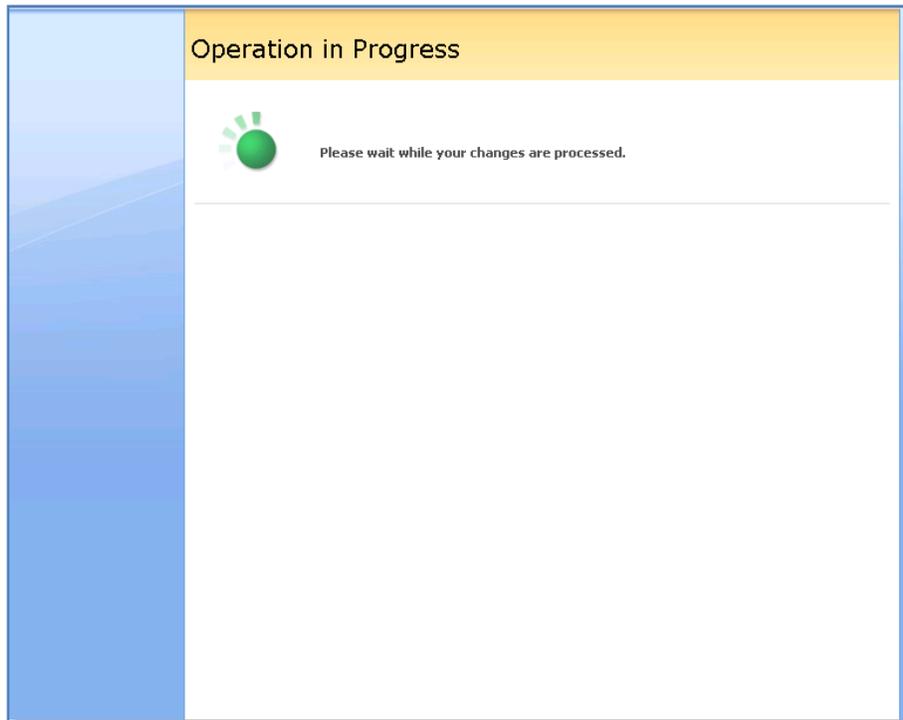
- Reset Internet Information Services:** Contains instructions on how to restart IIS on other farm servers. It offers two options: Restart IIS Automatically and Restart IIS Manually.
- Database Name and Authentication:** Contains instructions on how to specify the database server and name, and how to choose between Windows authentication (recommended) and SQL authentication. The **Database Server** field contains "SERVER01". The **Database Name** field contains "WSS_Content_fe36d03edeab4798bce2". Under **Database authentication**, Windows authentication (recommended) is selected. There are empty input fields for **Account** and **Password** under the SQL authentication option.
- Search Server:** Shows "Search service is provided by: Office SharePoint Server Search".

At the bottom right, there are **OK** and **Cancel** buttons.

Now enter a *Database Server* and *Database Name*. You will probably see that the database name has been pre-populated with the name WSS_Content_<random characters>. It is recommended that you change the database name to something that is shorter and also better describes the purpose of this database.

When complete press the **OK** button to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



The web site will be configured with the settings you just made.

The screenshot displays a configuration page with three main sections:

- My Site Location:** A Web application is required for My Sites. This Web application will be used to host personal sites and profile pages. To use an existing Web application, select from the Web applications in the drop down list. If a new Web application is needed, select the "Create a new Web application" link. We recommend using a different Web application than the one used for the SSP administration site, so that you can backup and restore My Sites independently. To host My Sites at a location other than the root, change the Relative URL.
- SSP Service Credentials:** Specify the credentials for the SSP Web services to use for inter-server communication and for running SSP-scoped timer jobs. Fields include Username (administrator) and Password (masked). A red error message states: "You must specify a value for this required field." There are also icons for help and save.
- SSP Database:** Each SSP requires a database for service specific data. Use of the default database server and database name is recommended for most cases. Refer to the Office SharePoint Server TechCenter on TechNet for advanced scenarios where specifying database... Fields include Database Server (SERVER01), Database Name (SharedServices1_DB), and Database authentication (Windows authentication (recommended)).

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

You will again be returned to the *New Shared Services Provider* screen. You should see that the new web site you just created (SharePoint – 5002 in this case) has been assigned to My Sites.

Next enter the user credentials for the SSP Service.

Scroll down the page to view more options.

The screenshot shows a configuration page with two sections: SSP Database and Search Database. Each section has a left column with instructions and a right column with input fields for database server, name, and authentication details.

Section	Instructions	Database Server	Database Name	Authentication	Account	Password
SSP Database	<p>Each SSP requires a database for service specific data.</p> <p>Use of the default database server and database name is recommended for most cases. Refer to the Office SharePoint Server TechCenter on TechNet for advanced scenarios where specifying database information is required.</p> <p>Use of Windows authentication is strongly recommended. To use SQL authentication, specify the credentials that will be used to connect to the SSP Database.</p>	SERVER01	SharedServices1_DB	<input checked="" type="radio"/> Windows authentication (recommended) <input type="radio"/> SQL authentication		
Search Database	<p>In addition to the SSP database, a separate database is required for frequently changing search related data.</p> <p>Use of the default database server and database name is recommended for most cases. Refer to the Office SharePoint Server TechCenter on TechNet for advanced scenarios where specifying database information is required.</p> <p>Use of Windows authentication is strongly recommended. To use SQL authentication, specify the credentials that will be used to connect to the SSP</p>	SERVER01	SharedServices1_Search_DB	<input checked="" type="radio"/> Windows authentication (recommended) <input type="radio"/> SQL authentication		

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The screenshot shows a dialog box for configuring SharePoint Server. It is divided into three sections:

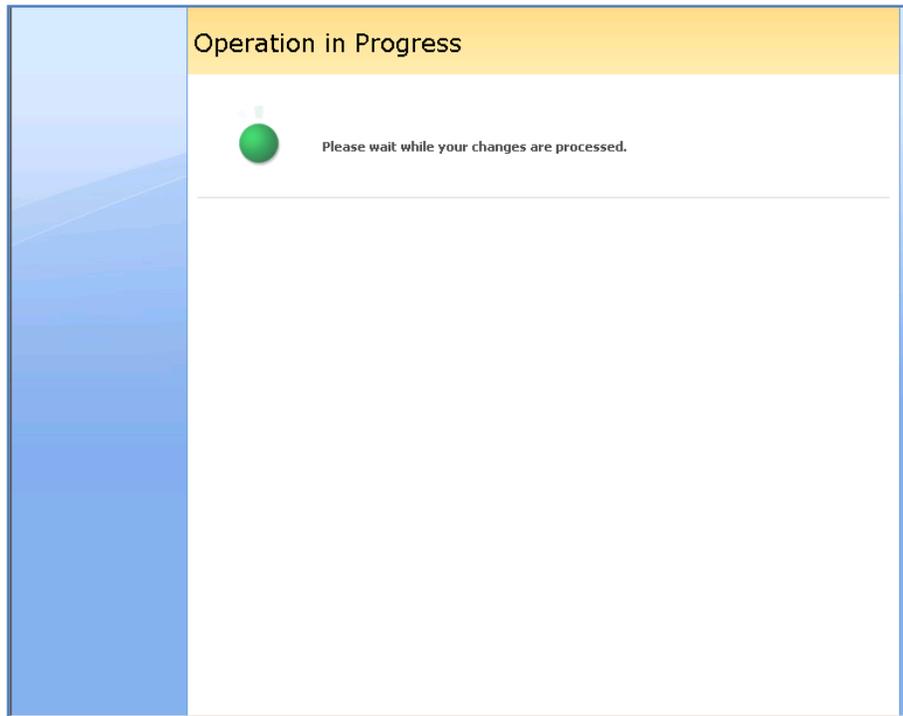
- Authentication:** A text box for "Password" is visible. A note states: "Use of Windows authentication is strongly recommended. To use SQL authentication, specify the credentials that will be used to connect to the SSP Database."
- Index Server:** A dropdown menu for "Index Server" is set to "SERVER01". Below it, a text box for "Path for index file location" contains "C:\Program Files\Microsoft Office Serv". A note reads: "Select the index server which will crawl content in all Web applications associated with this SSP. Specify the path on the index server where the indexes will be located. Note: Changing the index server will reset the index. To move the index without a reset STSAdm must be used."
- SSL for Web Services:** Radio buttons for "Use Secure Sockets Layer (SSL)" are shown, with "No" selected. A note states: "Use Secure Sockets Layer (SSL) to protect communications to and from Web services. Note: If you choose to use SSL, you must add the certificate on each server using the IIS administration tool. Until this is done, the Web services will not be available."

At the bottom right, there are "OK" and "Cancel" buttons.

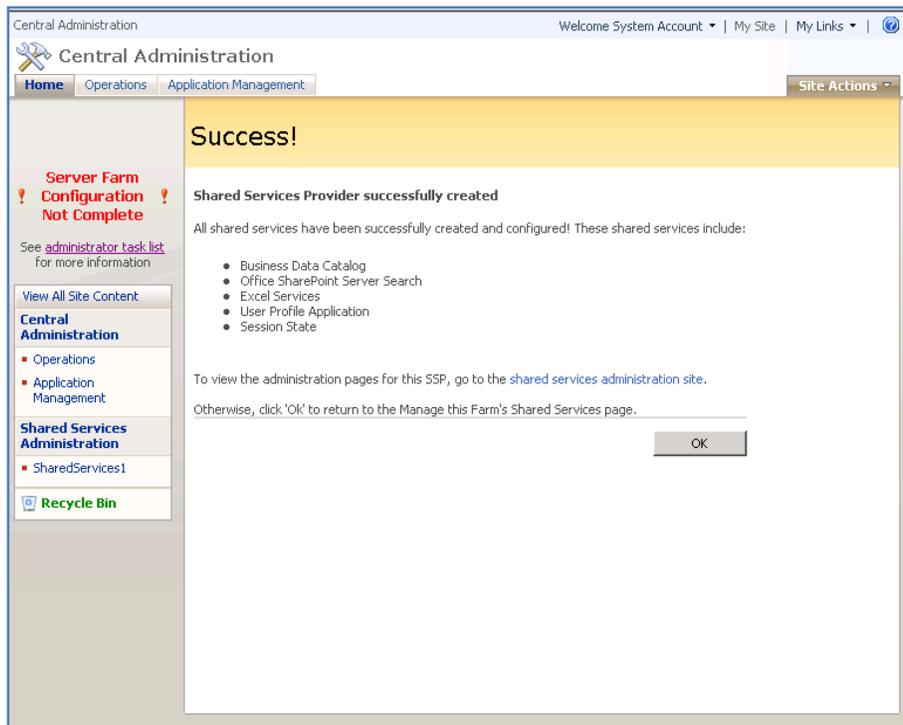
Now select an index server. You will only be able to select from multiple Index servers if there are multiple servers in your farm.

Select *No* for SSL and press the **OK** button to create the SSP.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

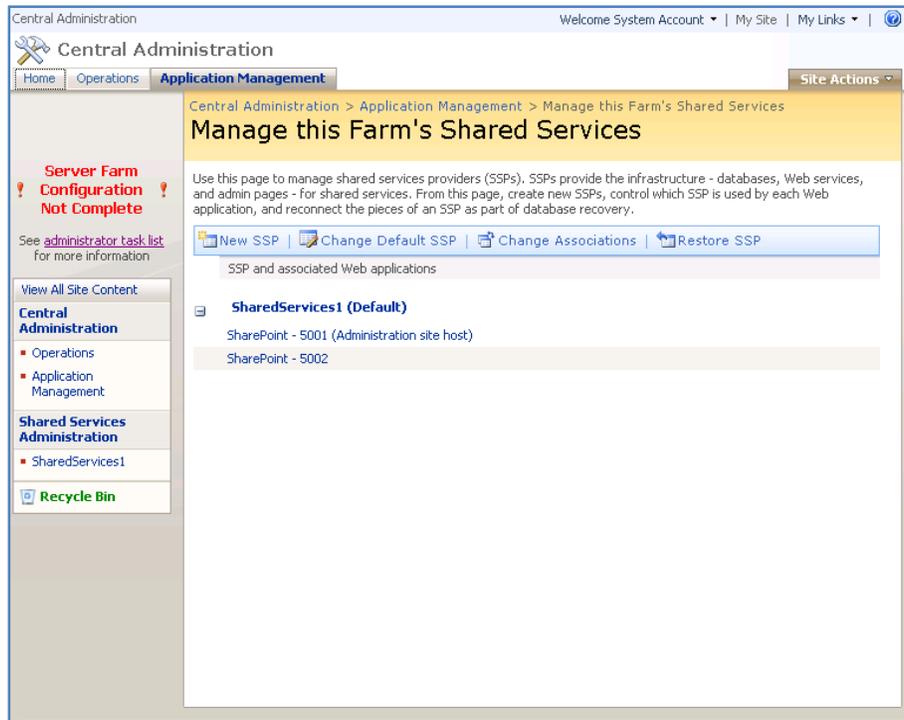


The SSP will now be created using the configuration you have just defined. This will now create and start the SSP. This step may take several minutes to complete.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

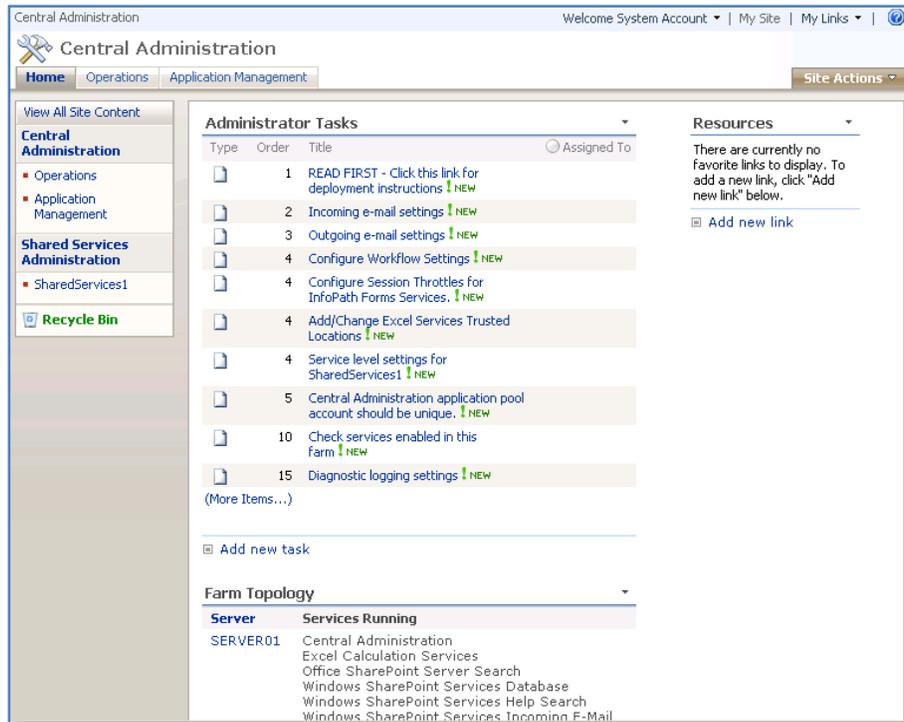
If the process is successful you should now see a screen like that shown above. Press the **OK** button to continue.



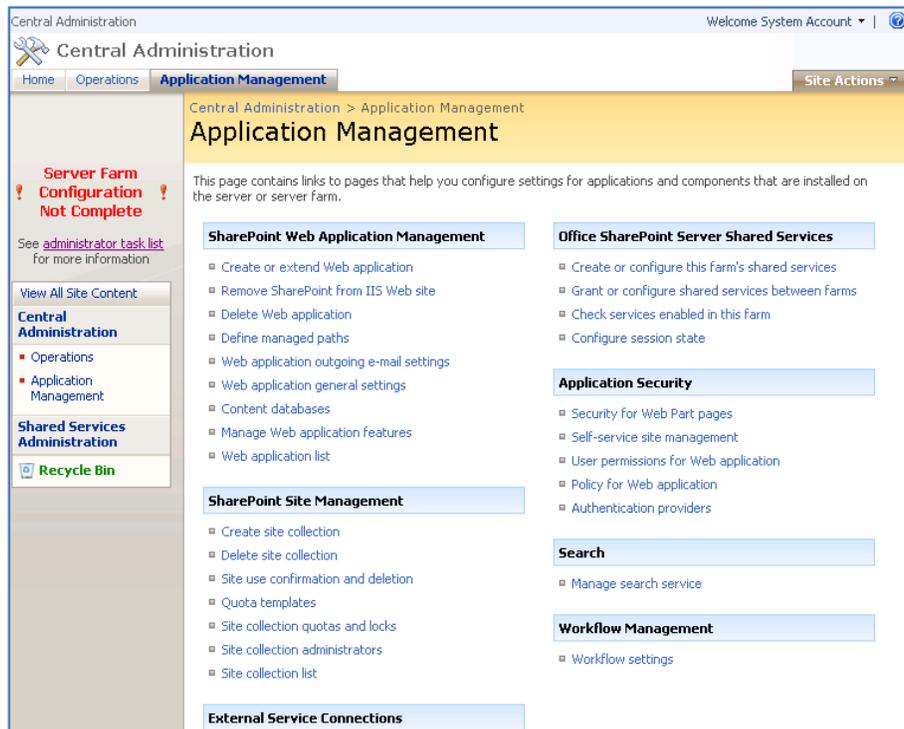
This will now show you a summary of the SSP which has 2 web applications.

Select the **Home** tab in the top left of the screen to return to the *Central Administration Home* page.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

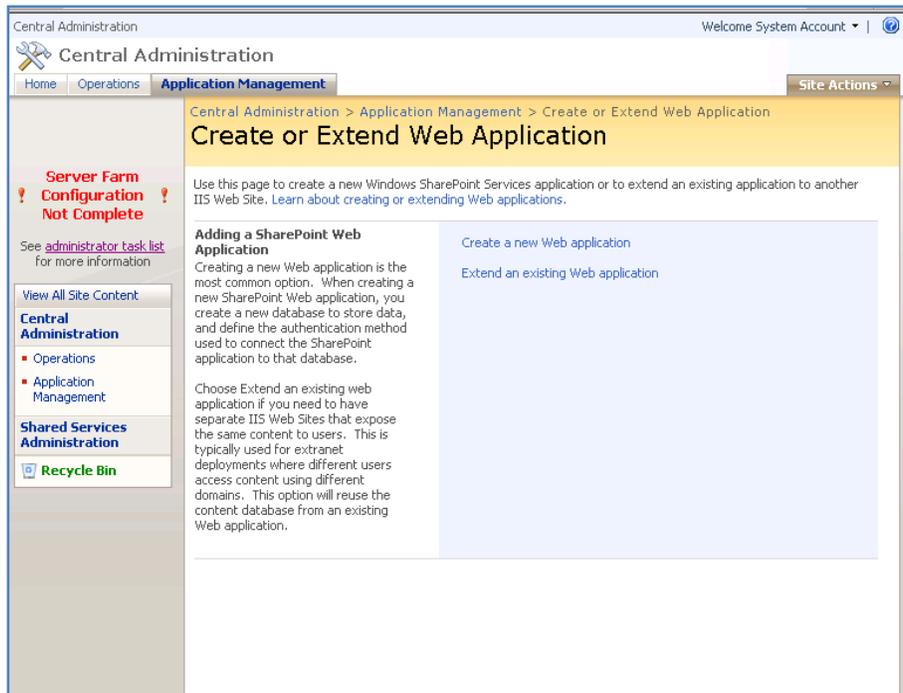


It is now necessary to create the portal web site. Select **Application Management** from the tab across the top of the *Central Administration* console.



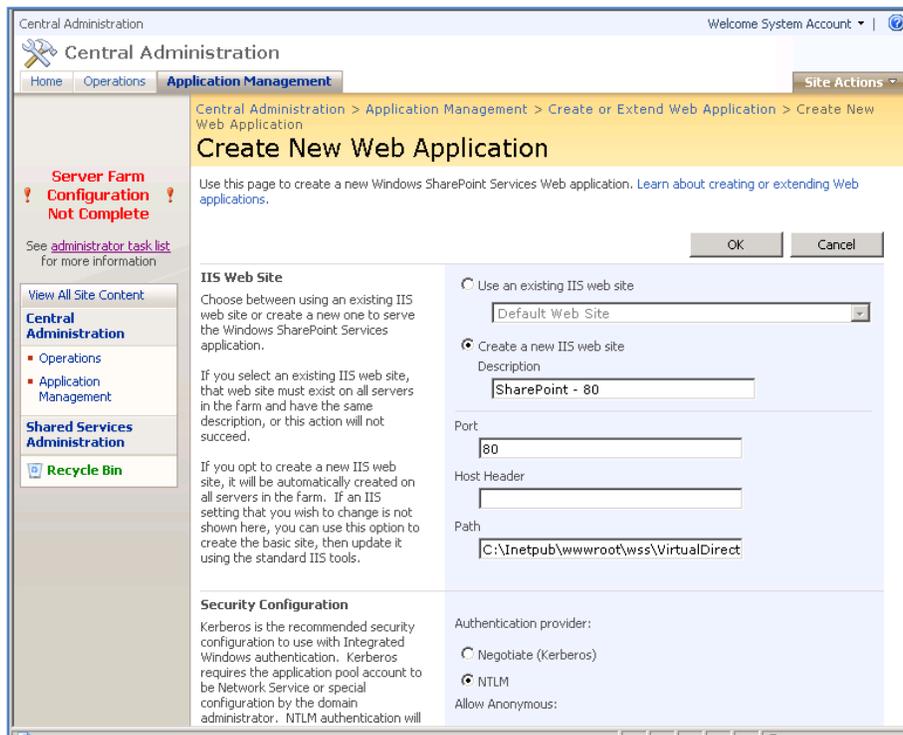
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Select **Create or extend web application** in the *SharePoint Web Application Management* section.



Click **Create a new web application**.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



You will now see the familiar *Create New Web Application* page. You can select any port that you desire for this application but if you wish to have the portal display on Port 80 then with select that port value or select Use an existing web site and select the Default web site.

Scroll down the screen for more choices.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Security Configuration

Kerberos is the recommended security configuration to use with Integrated Windows authentication. Kerberos requires the application pool account to be Network Service or special configuration by the domain administrator. NTLM authentication will work with any application pool account and the default domain configuration.

If you choose to use Secure Sockets Layer (SSL), you must add the certificate on each server using the IIS administration tools. Until this is done, the web application will be inaccessible from this IIS Web Site.

Load Balanced URL

The load balanced URL is the domain name for all sites users will access in this SharePoint Web application. This URL domain will be used in all links shown on pages within the web application. By default, it is set to the current servername and port.

Application Pool

Choose the application pool to use for the new web application. This defines the account and credentials that will be used by this service.

You can choose an existing application pool or create a new one.

Authentication provider:

Negotiate (Kerberos)

NTLM

Allow Anonymous:

Yes

No

Use Secure Sockets Layer (SSL):

Yes

No

URL

Zone

Use existing application pool

Create new application pool

Application pool name

Select a security account for this application pool

Predefined

Configurable

User name

Unless your network is configure to support Kerberos authentication leave the *Authentication Provider* set as *NTLM*. It is also recommended that you leave *Allow Anonymous* set to *No* and *Use Secure Socket Layer (SSL)* also set to *No*.

Scroll down the screen for more options.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The screenshot shows the 'Application Pool' configuration screen in the SharePoint installation wizard. It is divided into three main sections:

- Application Pool:** Contains instructions on choosing an application pool. The 'Create new application pool' option is selected. The 'Application pool name' is set to 'SharePoint - 80'. Under 'Select a security account for this application pool', the 'Configurable' option is selected, with 'User name' and 'Password' fields left empty.
- Reset Internet Information Services:** Contains instructions on resetting IIS. The 'Restart IIS Manually' option is selected.
- Database Name and Authentication:** Contains instructions on database server and name. The 'Database Server' is set to 'server01' and the 'Database Name' is set to 'WSS_Content'.

In the *Application Pool* section it is best practice to create a separate pool. Click **Create new application pool** and enter the user account details.

Select the option to *Restart IIS Automatically*. If you do so remember that people using IIS on this machine will have their operations interrupted as IIS restarts.

Scroll down the screen for further options.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The screenshot shows a configuration window with three main sections on the left and their corresponding settings on the right:

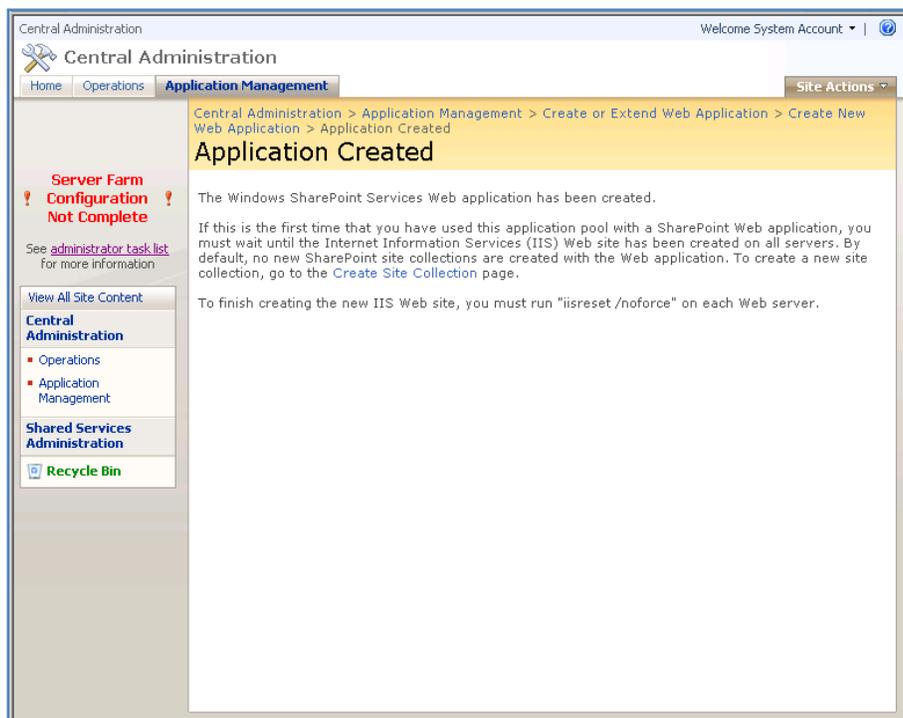
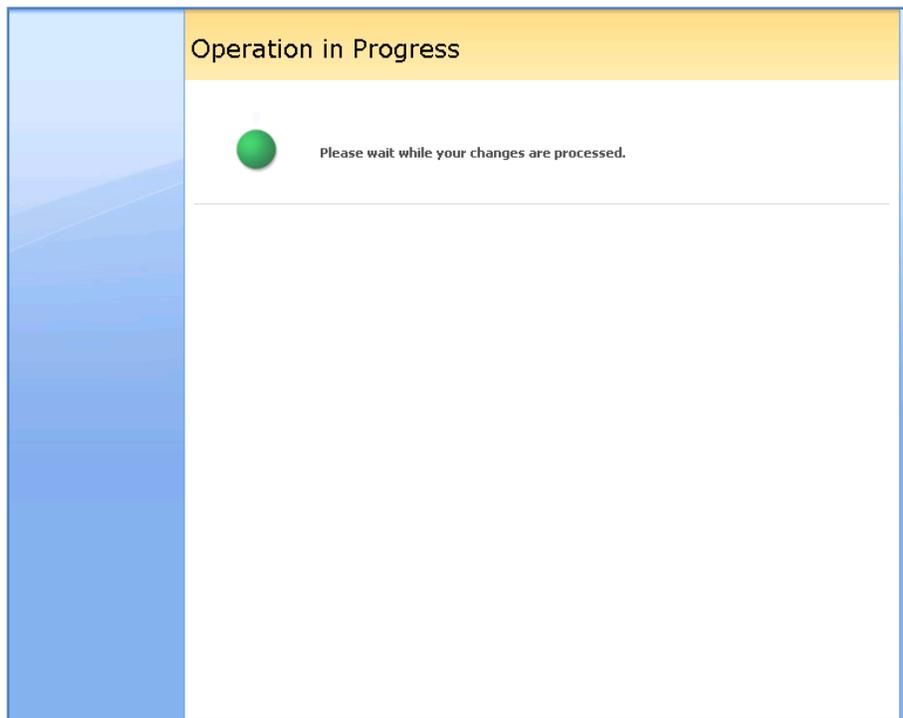
- Reset Internet Information Services:** Includes instructions on restarting IIS on other farm servers. On the right, there are two radio buttons: "Restart IIS Automatically" (unselected) and "Restart IIS Manually" (selected).
- Database Name and Authentication:** Includes instructions on using the default database server and authentication. On the right, there are three input fields: "Database Server" (containing "server01"), "Database Name" (containing "WSS_Content"), and "Database authentication" (with "Windows authentication (recommended)" selected). Below these are "Account" and "Password" input fields.
- Search Server:** Includes instructions on using Windows authentication. On the right, it says "Search service is provided by: Office SharePoint Server Search".

At the bottom right of the window are "OK" and "Cancel" buttons.

In the *Database name and Authentication* section, you will see the default Database Name for this web application. Since this will be the database used for storing user web sites it should have a name that is easy to recognize. Change it to something that is meaningful.

Click **OK** to save the configuration and create the new web application.

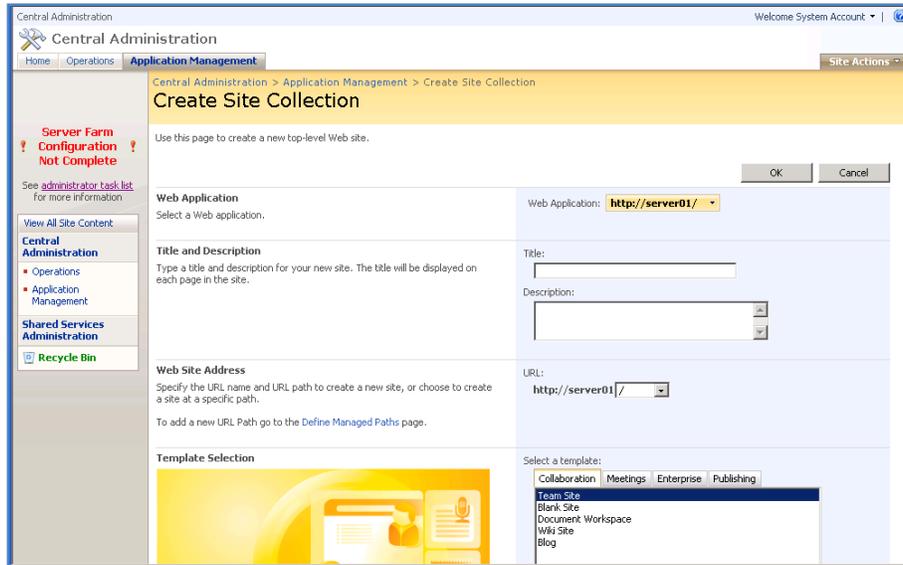
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Now that web application has been completed you will need create the site collection. To do this click the *Create Site Collection* link on the page that is displayed or click **Create**

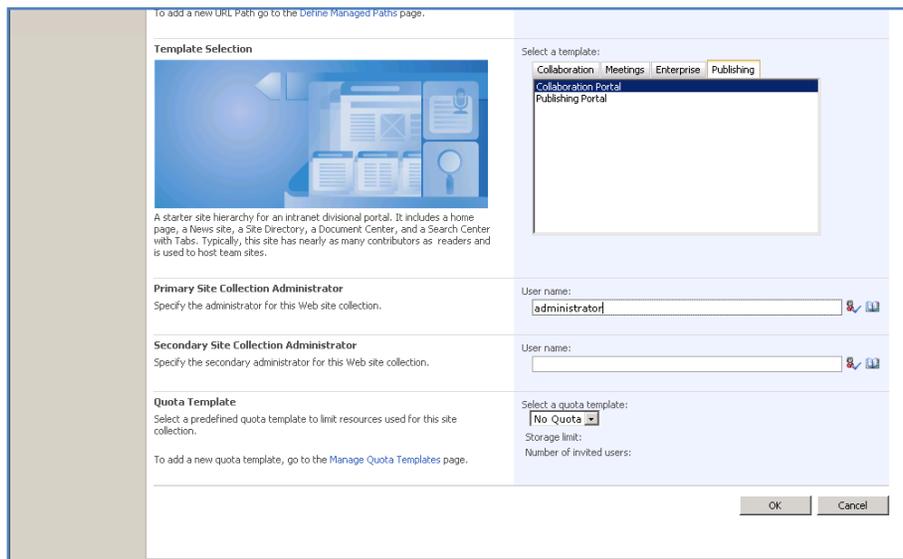
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Site Collection in the *SharePoint Site Management* section on the *Application Management* page.



Ensure that the web application you just created above is shown. If not you can click on it to change.

Enter the *Title* for the portal and a *Description*.

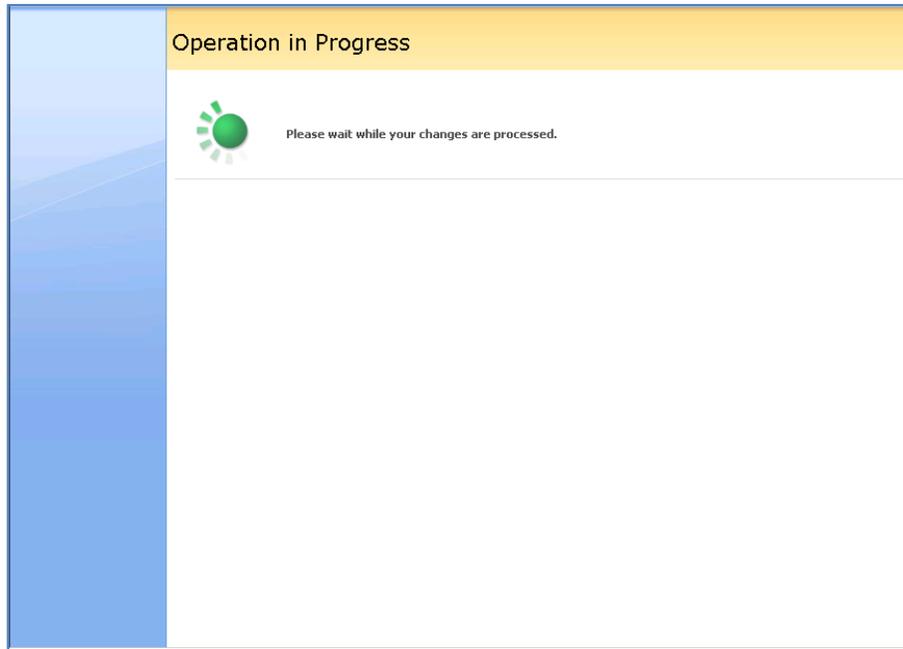


In the *Template* section click on the **Publishing** tab and select **Collaboration Portal**.

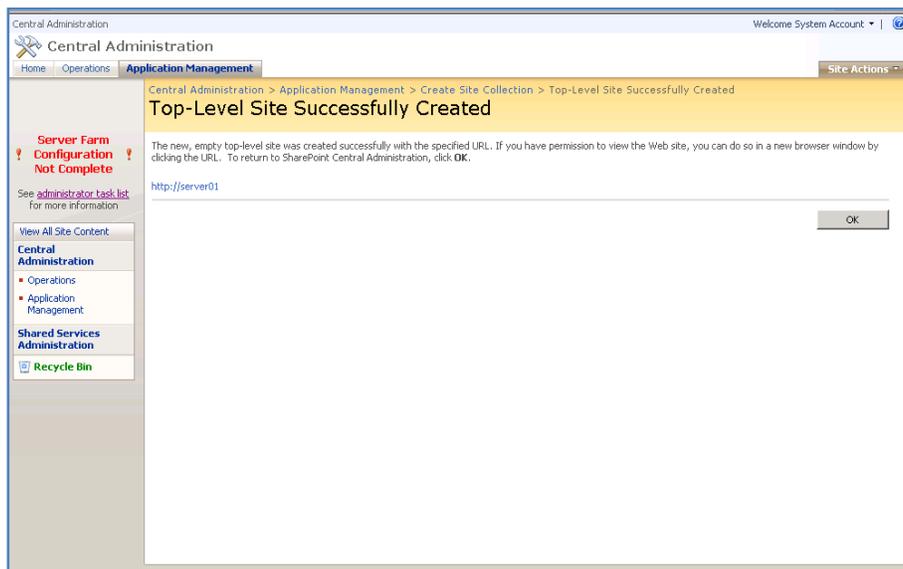
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

In the *Primary Site Collection Administrator* section, enter the user account that will be the full administrator for this site collection. You can also enter details for a secondary site collection administrator if desired.

Click **OK** to close the page and start creating this site collection. This process may take a few minutes to complete.

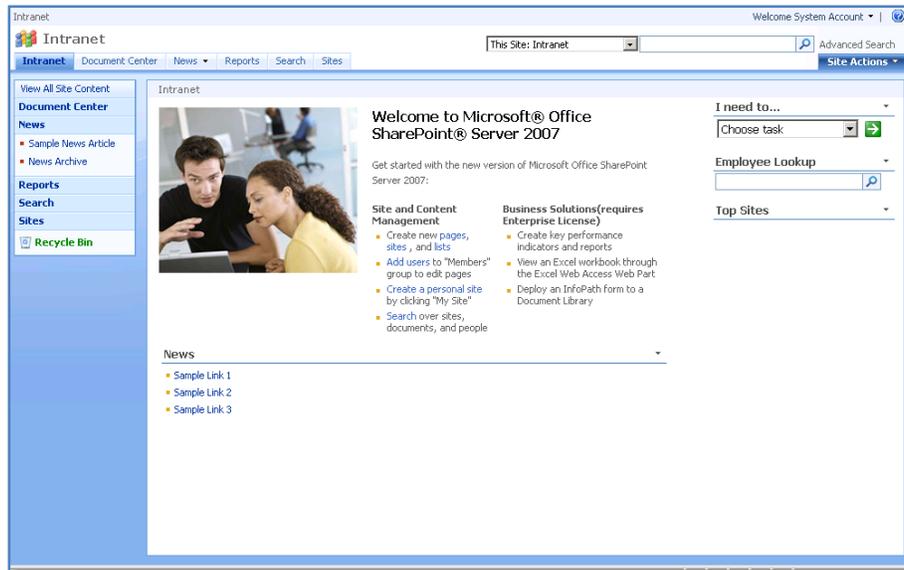


When the process is complete you will have created a new Portal site on Port 80.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

To view the new portal site simply click on the link that is provided in the above screen or enter the name of the server in a new browser window.



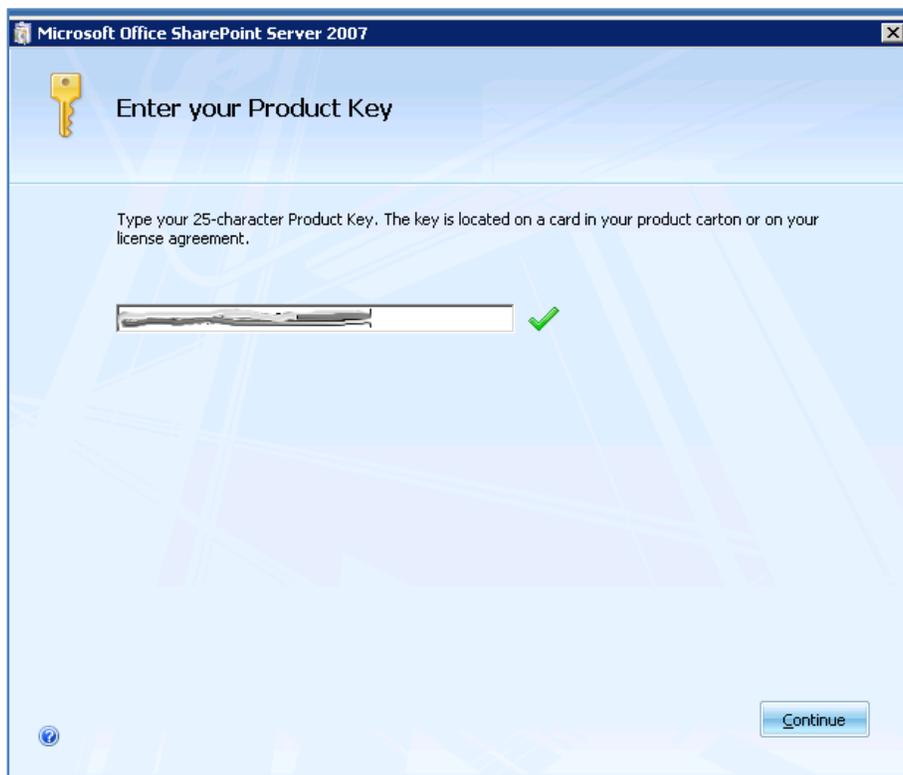
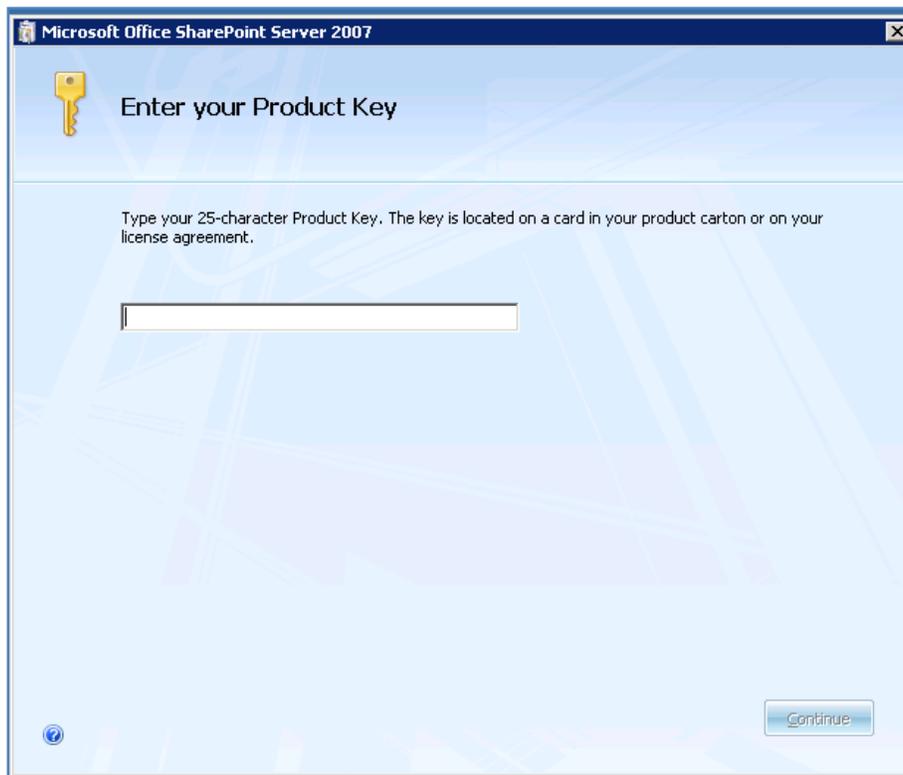
The MOSS site is now ready for use.

Default Installation

After meeting all the server prerequisites and having the MOSS media, log into the Windows Server as an administrator. Commence the installation by inserting the MOSS media.

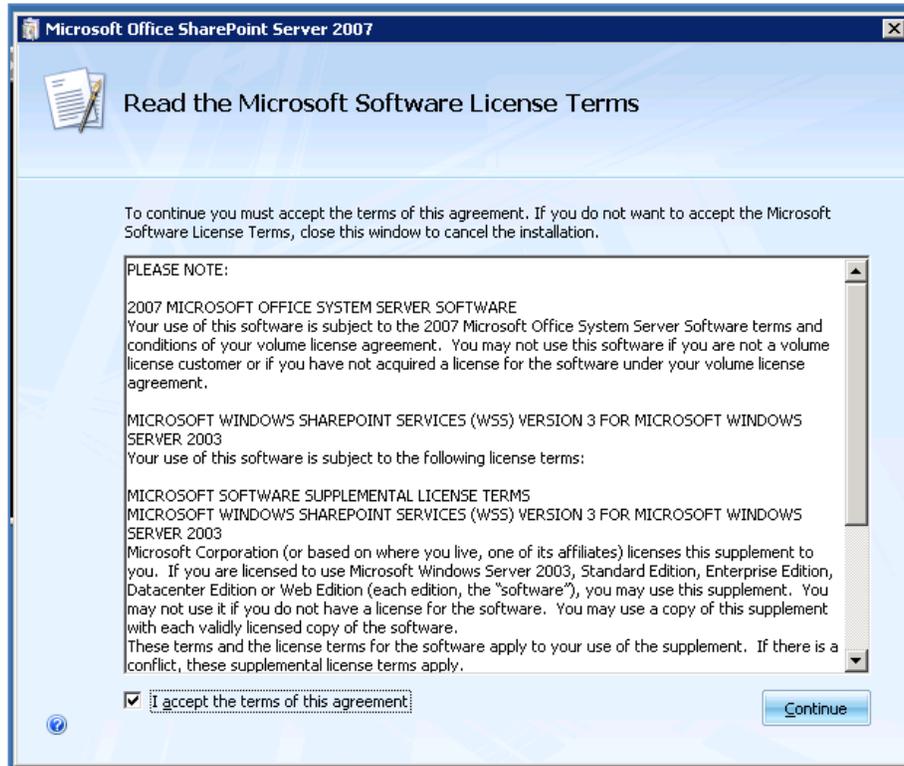
Once the setup files have been extracted you will be prompted to enter a product key for MOSS. The key that you enter here determines whether the MOSS installation is the Standard or Enterprise version. It is also important to keep in mind that it is only possible to upgrade from the Standard edition to the Enterprise edition and not the reverse (i.e. you have to do a reinstallation if you want to downgrade from MOSS Enterprise to MOSS standard).

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



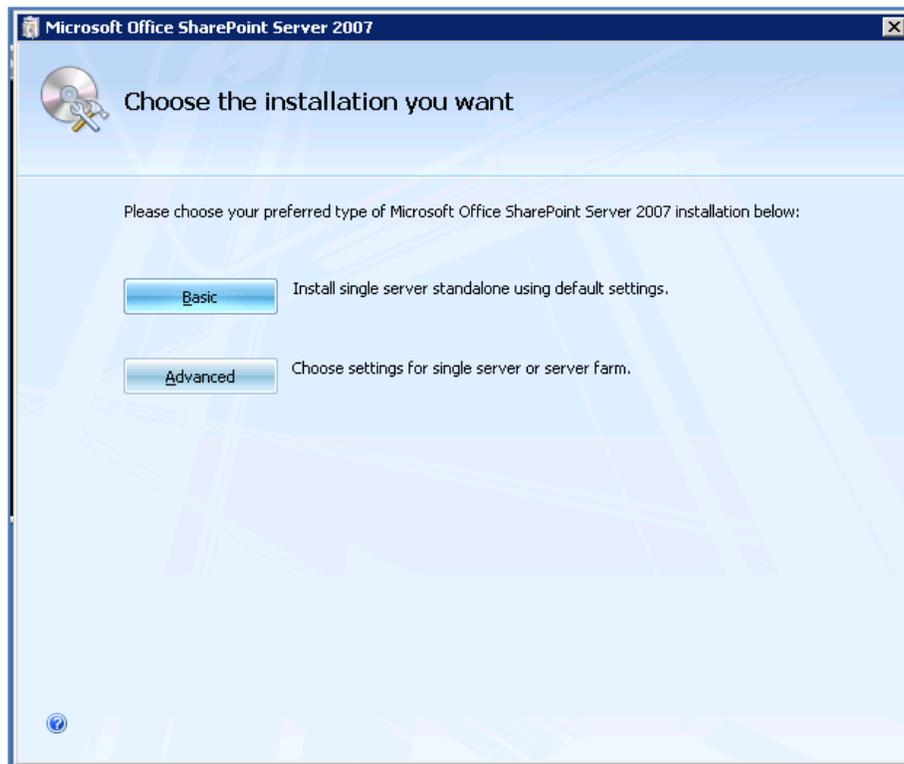
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Once the key is entered correctly you should receive a green tick like that shown above. Click the **Continue** button.



The next window displayed will be the Microsoft Software License Terms. After reviewing this, check – *I accept the terms of this agreement* in the lower left of the windows and press the **Continue** button.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

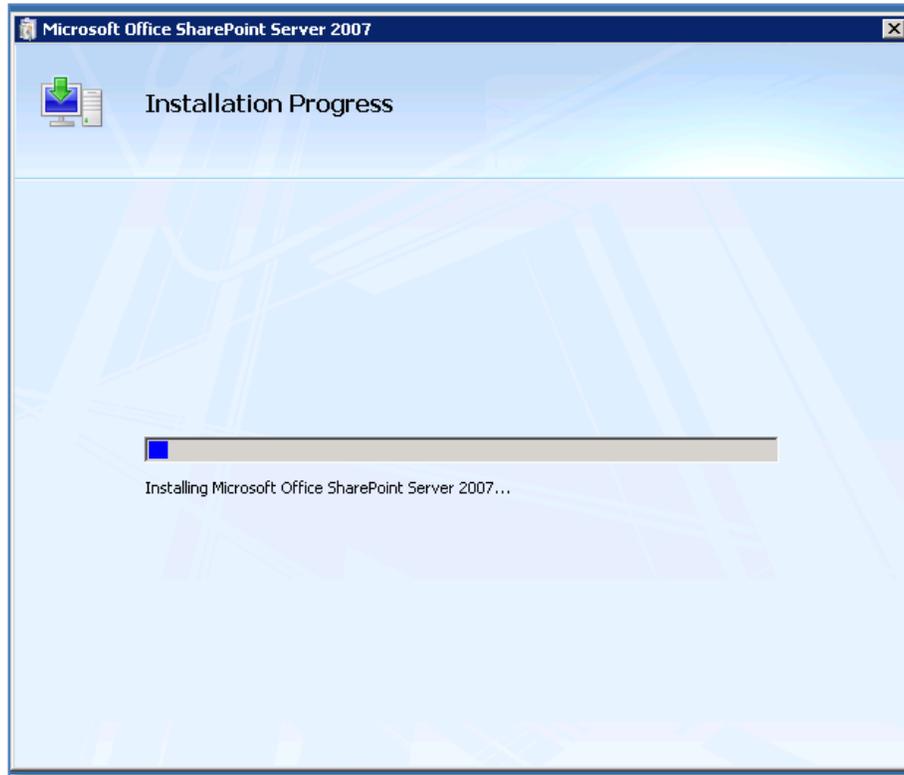


To complete a default MOSS installation click the BASIC button but remember the following items will automatically be configured:

- a. Install SharePoint programs into *c:\program files\common files\Microsoft shared\web server extensions\12\data*.
- b. Install MOSS specific programs into *c:\program files\Microsoft Office Servers\12.0*
- c. Install Microsoft SQL Server 2005 Express Edition as the MOSS storage option and install this automatically to *c:\program files\Microsoft SQL Server*. It will also install the MOSS databases in *c:\program files\Microsoft Office Servers\12.0\data\mssql.1\mssql\data*.
- d. Configure a MOSS web site on port 80.
- e. Configure a MOSS collaboration portal.
- f. MOSS will be configured for a single stand alone server. You will be unable to create a SharePoint farm later if required.

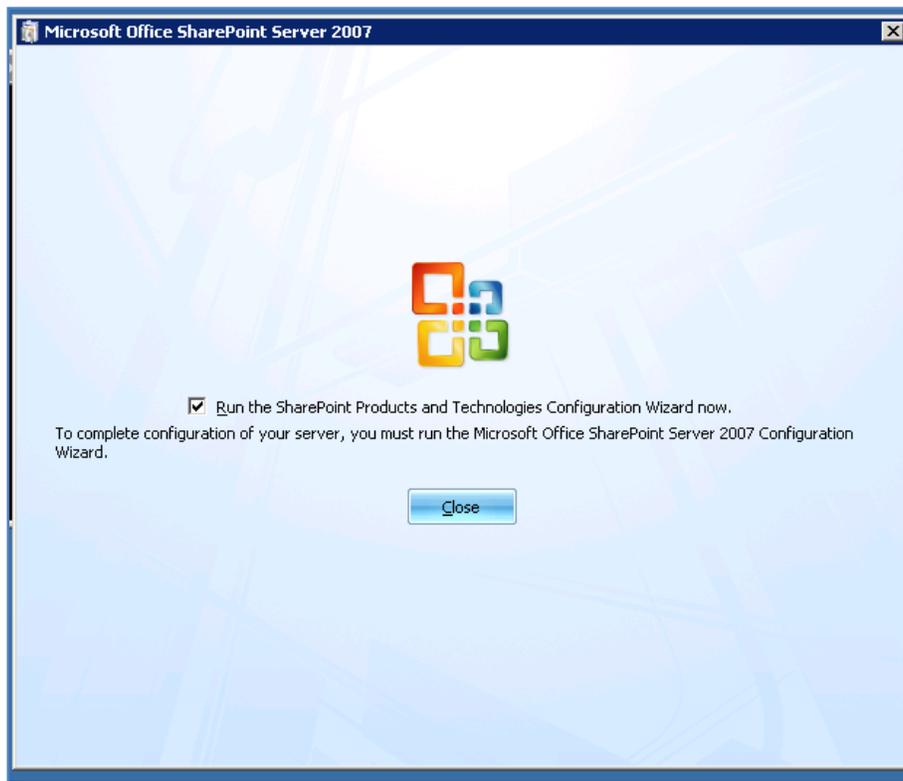
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Note that using the basic option you are unable to change any of the selections mentioned above.



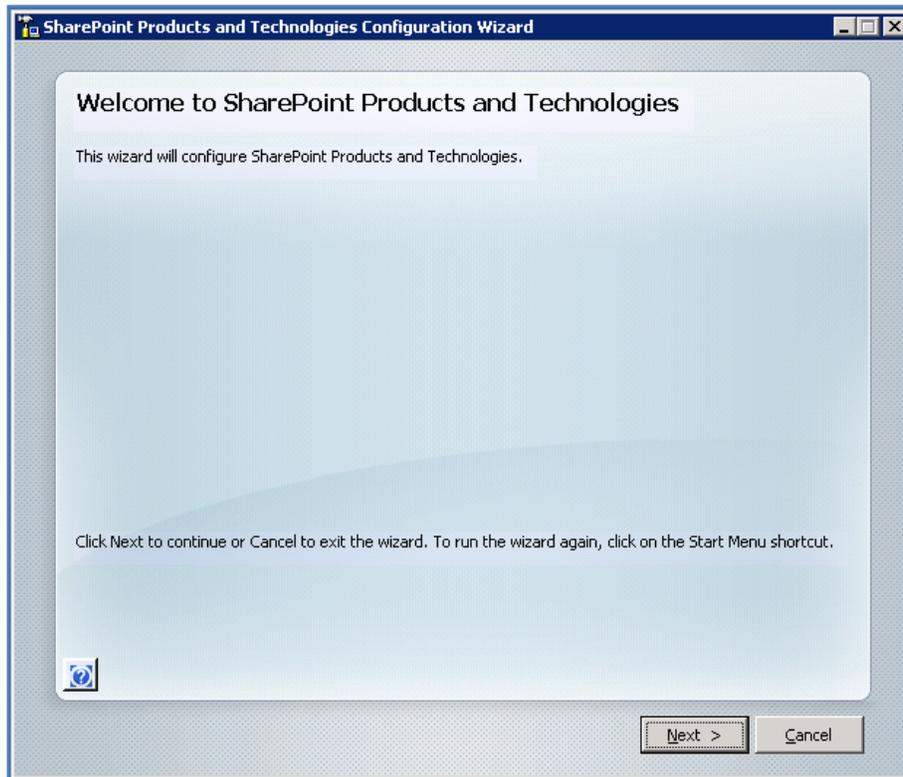
The installation will now commence. Note, that no further input is available until this process is complete.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Once the installation is complete you will see the above window. Leave the *Run the SharePoint Products and Technologies Configuration Wizard now* option checked and press the **Close** button.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Select **Next** to continue. Note, unlike the *Advanced Installation*, completed earlier, you are not reminded about the name of a database server or username and password for the database access account since these choices have already been made by the installation under the *Default Installation* option selected earlier.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

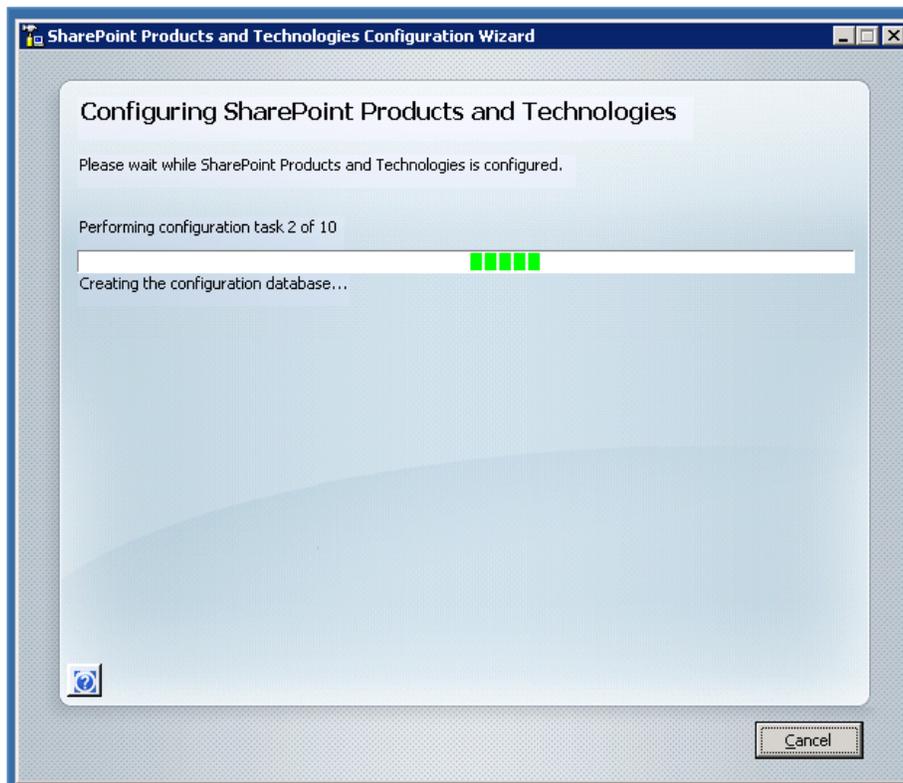


You will again be prompted to the fact that the following services will be started or restarted:

- Internet Information Services
- SharePoint Administration Service
- SharePoint Timer Service

You need to be aware that this operation may have an impact on other applications that use these services which would impact network users interacting with them. If you wish to proceed with the installation press the **Yes** button.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

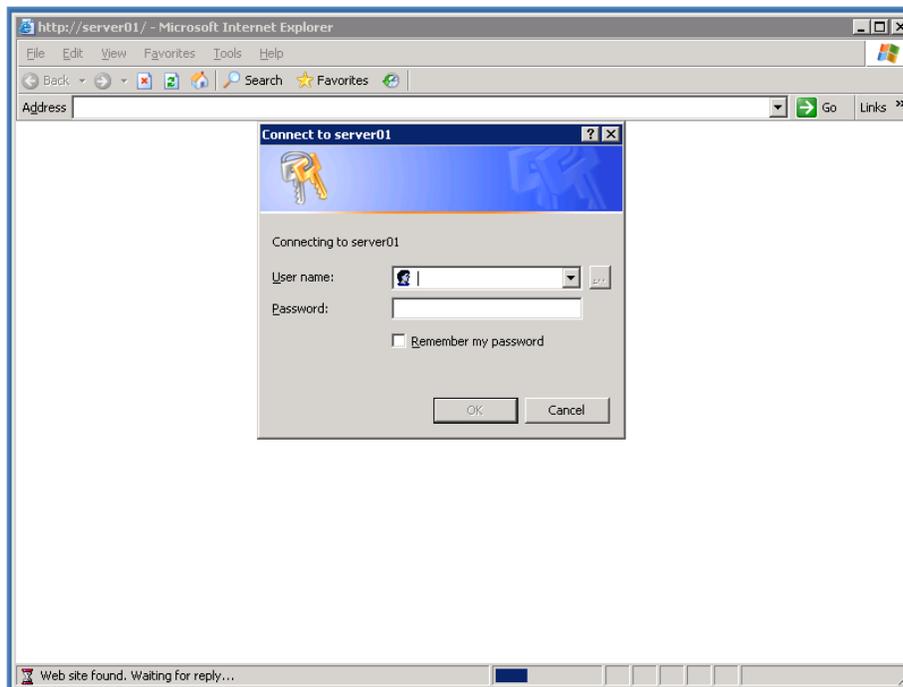


Unlike the *Advanced Installation* no further configuration options are provided and the configuration wizard will now run through ten or so stages to complete the configuration on the server. During this process there is no option to enter further information and the only option available is to press the **Cancel** button to halt the process.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

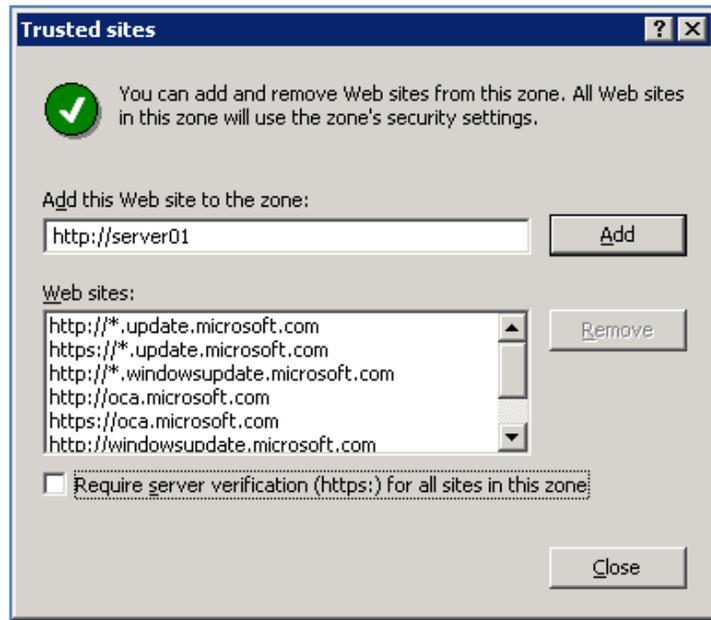


When the wizard completes you should see a *Completion Successful* window like that shown above. Press the **Finish** button to continue.

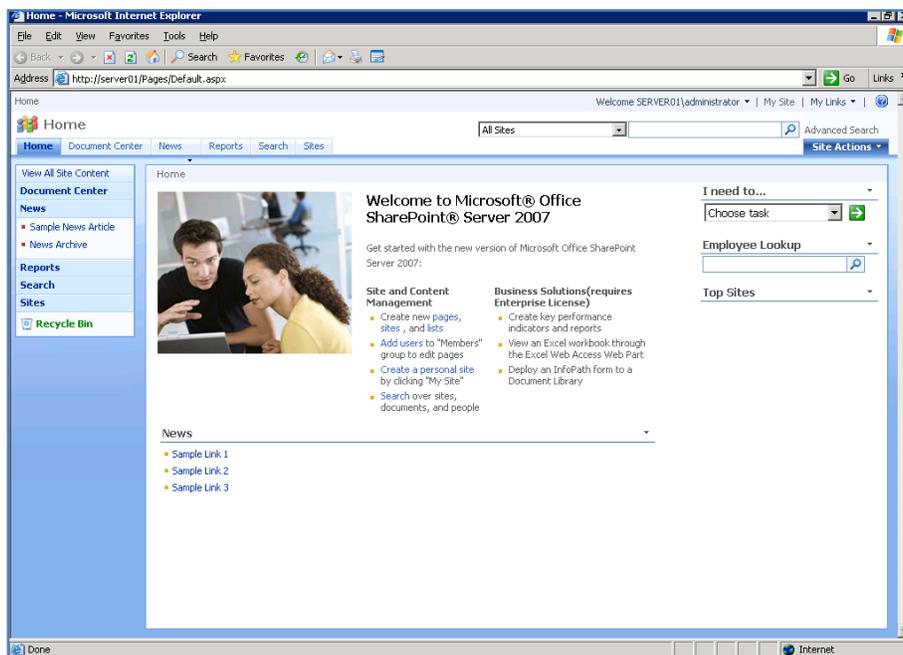


Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The server will now attempt to display the *SharePoint Central configuration* page. You may need to enter the administrator login credential to gain access.



It is also recommended that you take the opportunity to add the site into the safe sites for the browser.



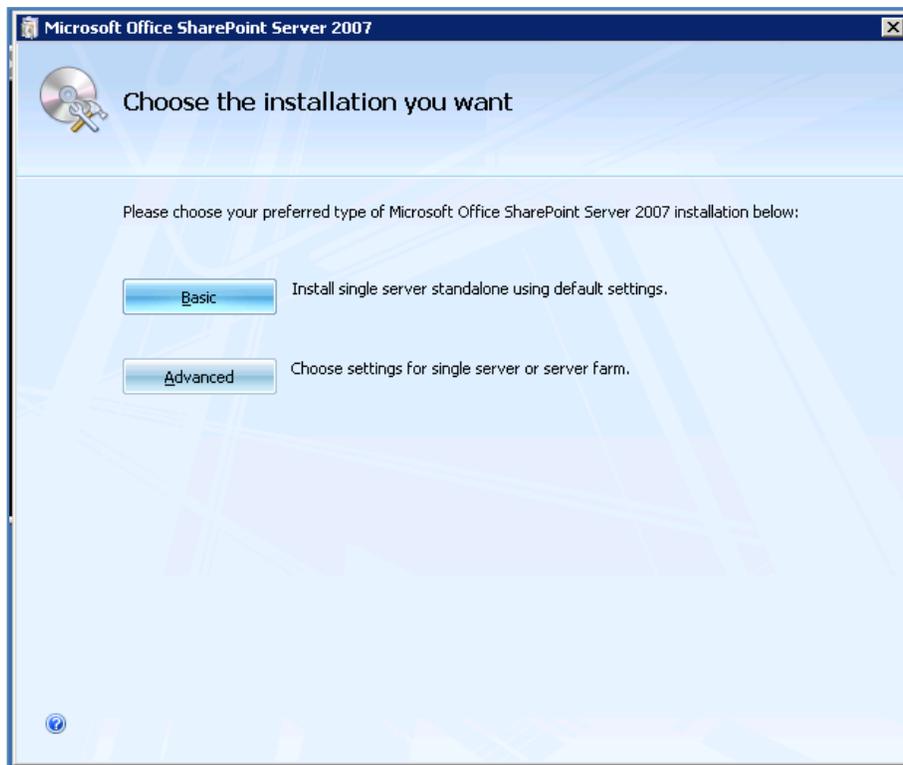
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Your new MOSS portal site should now be displayed. Unlike the *Advanced Installation*, all the SharePoint Central Administration has been completed automatically. Your MOSS site is available on the default web site for this server (i.e. Port 80).

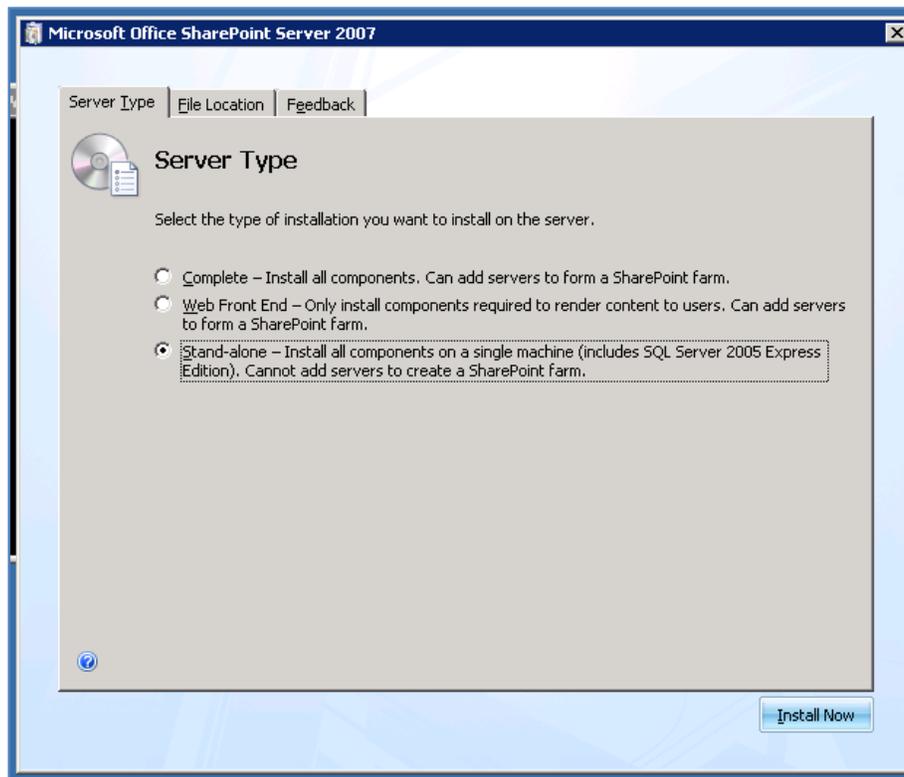
Stand Alone Installation

The final installation option not already covered is the Stand Alone option. This option is very much like the *Default Installation* mentioned previously.

You once again start the MOSS installation as normal and when presented with the installation type select **Advanced**.



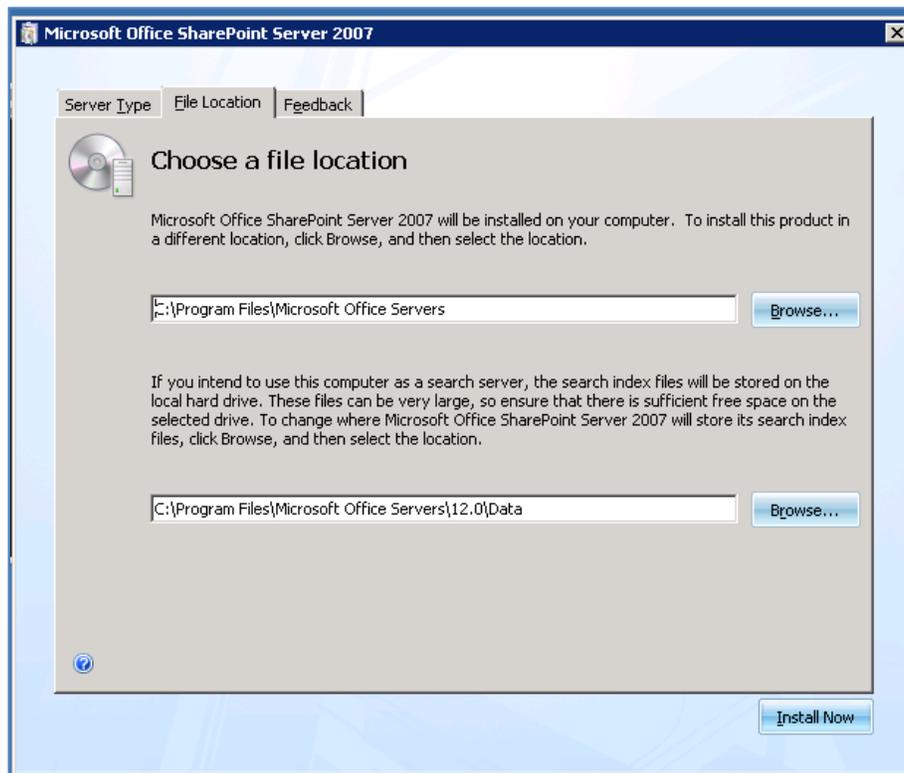
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



On the Server Type page select the Stand-alone option. Remember that by selecting this option:

- a. Install SharePoint programs into *c:\program files\common files\Microsoft shared\web server extensions\12\data*.
- b. Install MOSS specific programs into *c:\program files\Microsoft Office Servers\12.0*
- c. Install Microsoft SQL Server 2005 Express Edition as the MOSS storage option and install this automatically to *c:\program files\Microsoft SQL Server*. It will also install the MOSS databases in *c:\program files\Microsoft Office Servers\12.0\data\mssql.1\mssql\data*.
- d. Configure a MOSS web site on port 80.
- e. Configure a MOSS collaboration portal.
- f. MOSS will be configured for a single stand alone server. You will be unable to create a SharePoint farm later if required.

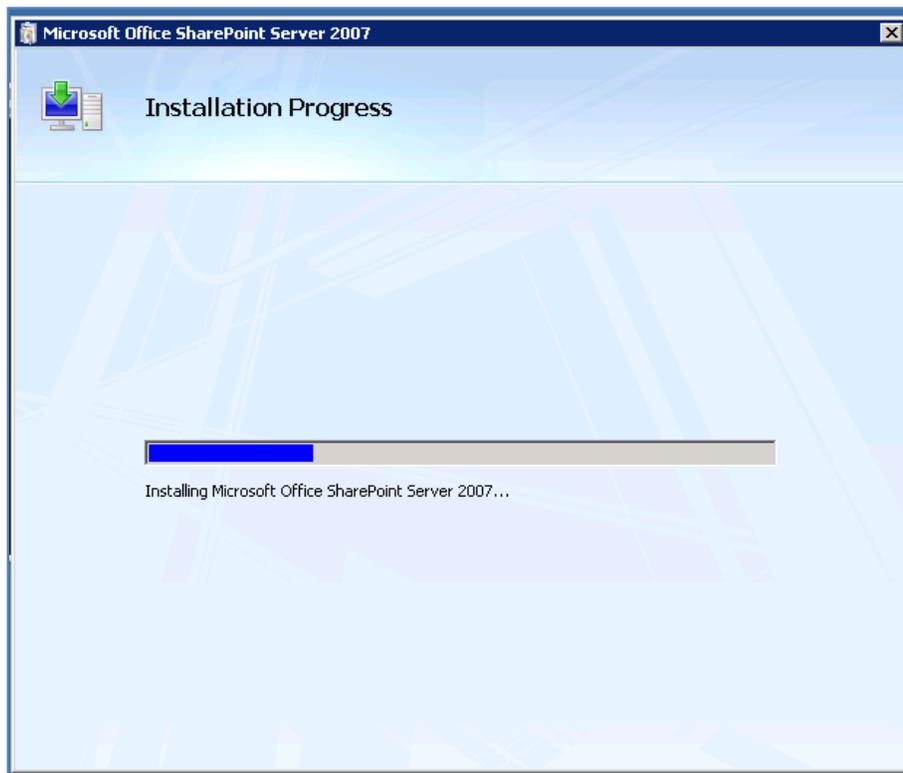
Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



The Data Location tab allows you to specify where the MOSS program files will be stored. By default these will be installed in *c:\program files\Microsoft Office Servers* and *c:\program files\Microsoft Office Servers\12.0\data* for search. You can change the drive letter if necessary by changing the entry displayed. It is recommended that you only change the drive letter if necessary to ensure compatibility and ease of use in the future.

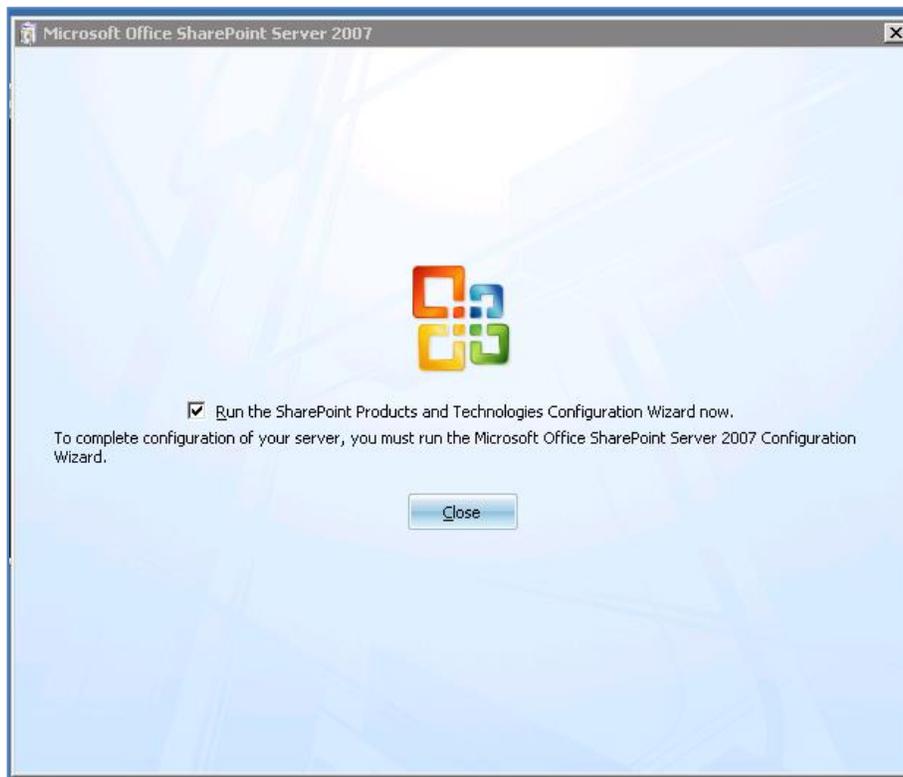
Once you have made your selections click the **Install Now** button on the lower right of the window to continue.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



The installation will now commence. Note, that no further input is available until this process is complete.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Once the installation is complete you will see the above window. Leave the *Run the SharePoint Products and Technologies Configuration Wizard now* option checked and press the **Close** button.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



Select **Next** to continue. Note, unlike the *Advanced Installation* that was completed earlier you are not reminded about the name of a database server or username and password for the database access account since these choices have already been made by the installation program under the default installation option selected earlier.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003



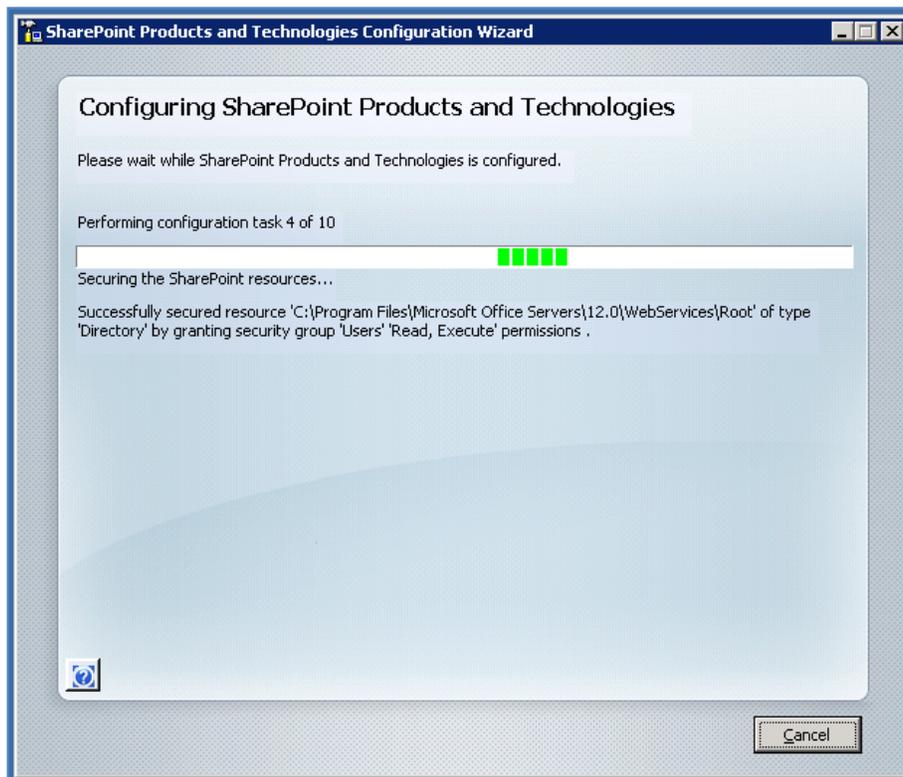
You again will be prompted to the fact that the following services will be started or restarted:

- Internet Information Service (IIS)
- SharePoint Administration Service
- SharePoint Timer Service

You need to be aware that this operation may have an impact on other applications that use these services which could impact network users interacting with them.

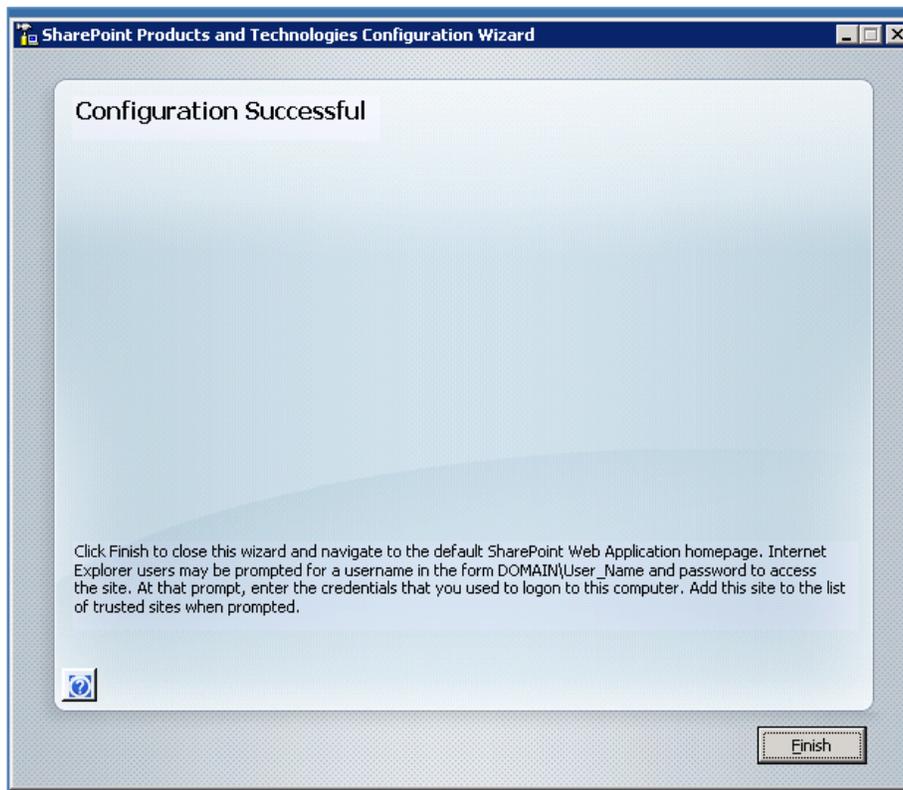
If you wish to proceed with the installation press the **Yes** button.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

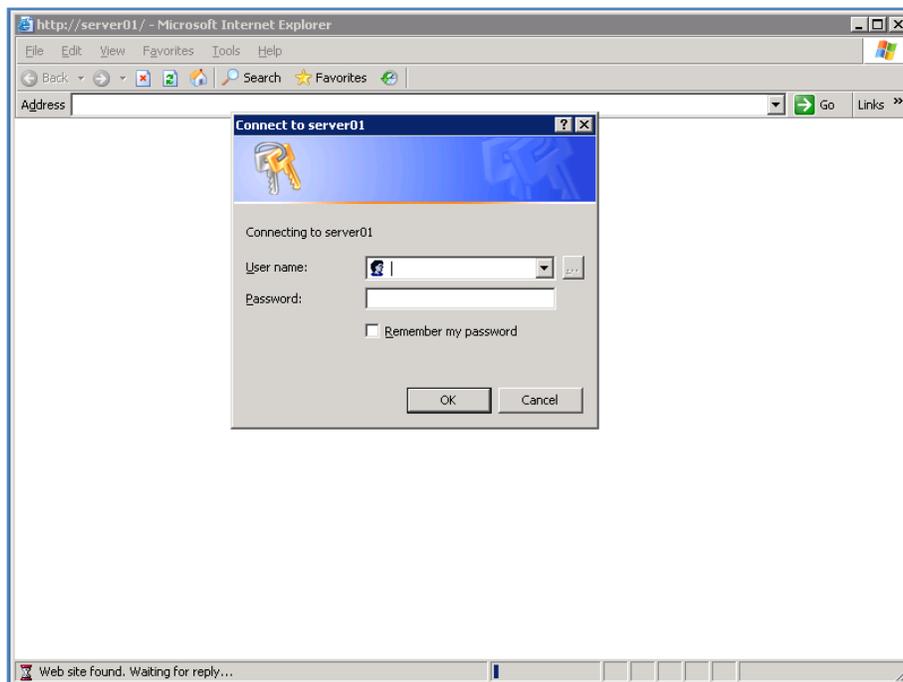


Unlike the *Advanced Installation*, no further configuration options are provided and the configuration wizard will now run through ten or so stages to complete the configuration on the server. During this process there is no option to enter further information and the only option available is to press the **Cancel** button to halt the process.

Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

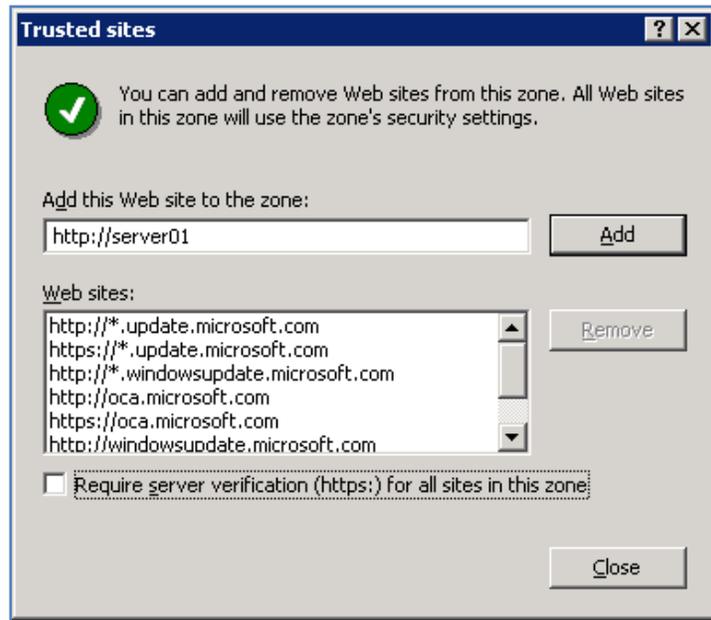


When the wizard completes you should see a *Completion Successful* window like that shown above. Press the **Finish** button to continue.

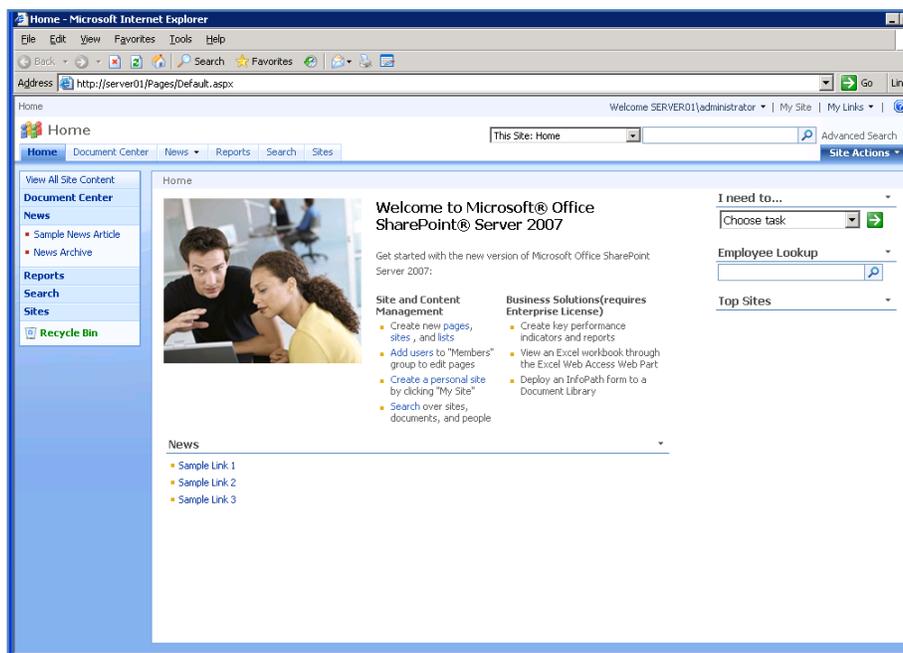


Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

The server will now attempt to display the *SharePoint Central configuration* page. You may need to enter the administrator login credential to gain access.



It is also recommended that you take the opportunity to add the site into the safe sites for the browser.



Chapter 3 – Installing Microsoft Office SharePoint Server onto Windows Server 2003

Your new MOSS web site should automatically be brought up in a browser window. Unlike the *Advanced Installation*, all the SharePoint Central Administration set up will have been completed automatically. Your MOSS site is available on the default web site for this server (i.e. port 80)

3.4 Conclusion

Prior to any installation you need to decide on what type of installation you wish to perform, advanced, default or stand alone. Each of these options presents a number of different options that can be selected during the installation process and can affect the future growth of your installation.

Please send your comments and feedback to director@ciaops.com.