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8.1 Scope

Windows SharePoint Services v3 (WSS v3) depends on databases for both its configuration and content storage. Not only is it important to understand what database options are available and how to install them, it is also critical be able to maintain these to ensure that WSS v3 continues to run optimally.

8.2 Microsoft SQL Server 2005 Express Embedded Edition (SSEE)

This database is installed if you select to install WSS v3 using the default or stand alone installation option (for more information see **Chapters 3 and 4**). By default, the databases are stored on the system partition (C: drive) of the server and no graphical management tools are installed. It is however possible to manipulate the databases using the command line but a free graphical management tool is available from:

http://www.microsoft.com/downloads/details.aspx?FamilyID=c243a5ae-4bd1-4e3d-94b8-5a0f62bf7796&DisplayLang=en

It is strongly recommended that you install this application on your server to make working with the Microsoft SQL Server 2005 Express Embedded Edition (SSEE) easier.

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| Server Manag | jement | 😏 My Compute | er | | |
| CAL Command Pro | mpt | Control Panel | • | | |
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| | 🛅 Startup | . 592 501101 2000 | • | SQL Server Management Studio Express | |
| All <u>P</u> rograms → | UltraVNC Different Microsoft Outlook I L Remote | Explorer Baseline Security An Express Assistance | alyzer 2.0 | | 🤕 Recycle Bin |
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Once the management studio has been installed on the server it can be accessed via Start | All Programs | SQL Server Management Studio Express.



Once the management studio is running you will need to connect to the Microsoft SQL Server 2005 Express Embedded Edition (SSEE). To do so use the following string in the server name field:

\\.\pipe\mssql\$microsoft##ssee\sql\query



Once the management console has connected you should see an interface similar to that of other SQL 2005 server installations. The databases are located under the database folder.

By default the location of the Microsoft SQL Server 2005 Express Embedded Edition (SSEE) data will be:

c:\windows\sysmsi\ssee\mssql.2005\mssql\data

and this cannot be changed during the installation process. In many cases, as the data held in the databases grows it may cause problems because typically C: is the Windows system partition.

Unlike Microsoft SQL Server 2005 Express Edition the Embedded edition does not have a limitation on the size of a database, while the non-embedded edition has a maximum database limit of 4GB.

The other issue with Microsoft SQL Server 2005 Express Embedded Edition (SSEE) is that it cannot be upgraded and must be installed on the same server that WSS v3 is installed on.

8.3 Microsoft SQL Server 2005 Express Edition

This is a freely available download from Microsoft. It can be downloaded from:

http://www.microsoft.com/downloads/details.aspx?FamilyID=220549b5-0b07-4448-8848-dcc397514b41&DisplayLang=en

The benefits of Microsoft SQL Server 2005 Express over the embedded edition include:

- Ability to nominate data directory.
- Ability to be upgraded to SQL Server 2005 workgroup or standard editions.

Disadvantages of Microsoft SQL Server 2005 Express Edition in comparison to Microsoft SQL Server 2005 Workgroup edition:

- Limited to 1GB of RAM usage.
- Limited to 1 processor.
- Limited to 4GB database size.
- No included management tools.
- Must reside on the same server as WSS v3.

As with Microsoft SQL Server 2005 Embedded Edition (SSEE) you can install the free graphical management tools found at:

http://www.microsoft.com/downloads/details.aspx?FamilyID=c243a5ae-4bd1-4e3d-94b8-5a0f62bf7796&DisplayLang=en

to assist managing the software.

8.4 Microsoft SQL Server 2005 Workgroup Edition

This product is a commercial product and requires appropriate licensing for each server.

The benefits Microsoft SQL Server 2005 Workgroup in comparison to the Microsoft SQL Server 2005 Express Edition include:

- No limit on database size.
- Includes graphical management tools.
- Includes support for 2 processors.
- 3GB rather than 1GB RAM usage limitation.

Disadvantages of Microsoft SQL Server 2005 Workgroup in comparison to Microsoft SQL Server 2005 Standard edition:

- Limited to 3GB of RAM

8.5 Microsoft SQL Server 2005 Standard

This product is a commercial offering and requires appropriate licensing for each server.

The benefits Microsoft SQL Server 2005 Standard in comparison to the Microsoft SQL Server 2005 Workgroup Edition include:

- Includes support for 4 processors.
- Operating system limit rather than 3GB RAM usage limitation.

8.6 Relocating Databases

In some cases it may be necessary to relocate some of the existing WSS v3 databases after the initial installation. This is especially true with Microsoft SQL Server 2005 Express Embedded Edition (SSEE) since it will always places the databases in the C: partition of the server.

During any process of relocating WSS v3 databases users will be unable to use WSS v3.

The basic process to relocate any SQL Server databases is:

- Stop the World Wide Publishing Service
- Stop the SharePoint Timer Service
- Detach the Content Databases from SQL Server.
- Move the database files to the new location via file copies.
- Re-attach the databases in SQL server.
- Re-start the SharePoint Timer Service.
- Restart World Wide Publishing Service



The first step is to shutdown the appropriate Windows services. Logon on the WSS v3 server as an administrator and select **Start | Administrative Tools | Services**. Scroll down the list of services until you locate *Windows SharePoint Services Timer*. In the *Status* column for this service you should see *Started*. **Right mouse** click on the service and select **Stop** from the menu that is displayed.

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| ur d | shi në ka i në | Name / | Description | Statuc | Startun Tyne |
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| Start th | ne service | Windows Audio | Manages a | Startoa | Manual |
| | | Windows CardSpace | Securely e | | Manual |
| Descrip | tion | Windows Eirewall (Internet Connectio | Provides n | | Disabled |
| Sends r | notifications and performs | Windows Image Acquisition (WIA) | Provides im | | Disabled |
| schedu | scheduled tasks for Windows SharePoint | Windows Installer | Adds. modi | | Manual |
| Service | s | Windows Internet Name Service (WINS) | Resolves N | Started | Automatic |
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| | | Windows Presentation Foundation Fo | Optimizes | | Manual |
| | | Windows SharePoint Services Adminis | Performs a | | Manual |
| | | Windows SharePoint Services Search | Provides fu | Started | Manual |
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| | | 🦓 Windows SharePoint Services VSS Wri | Windows S | | Manual |
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| | | WMI Performance Adapter | Provides p | | Manual |
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Once complete you should now see that the *status* column is blank. This indicates that the service is no longer running.

| No. Services | | | | | | _ <u>8 ×</u> |
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| 🍓 Services (Local) | 🍇 Services (Local) | | | | | |
| | World Wide Web Publishing Service | Name 🛆 | Description | Status | Startup Type | Lo 🔺 |
| | Trond tride treb r ublishing service | 🗞 WebClient | Enables Wi | Started | Automatic | Lo |
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| | Pause the service | Windows CardSpace | Securely e | | Manual | Lo |
| | Restart the service | Windows Firewall/Internet Conne | Provides n | | Disabled | Lo |
| | | Windows Image Acquisition (WIA) | Provides im | | Disabled | Lo |
| | Description: | Windows Installer | Adds, modi | | Manual | Lo |
| | Provides Web connectivity and administration through the Internet | Windows Internet Name Service (| Resolves N | Started | Automatic | Lo |
| | Information Services Manager | Windows Management Instrumen | Provides a | Started | Automatic | Lo |
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| | | Windows SharePoint Services Ad | Performs a | Sta | vit. | Lo |
| | | Windows SharePoint Services Sea | Provides fu | Star Sto | D | Lo |
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| | | WinHTTP Web Proxy Auto-Discov | Implement | Def | irach | Lo |
| | | Wireless Configuration | Enables au | - Kei | Jesh | Lo |
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| Stop service World Wide | Web Publishing Service on Local Computer | | | | | |
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Now locate the service *World Wide Web Publishing Service*. In most cases the Status column will again show that the service is *Started*. **Right mouse** click on the service and select **Stop** from the menu that appears.

| Services | | | | | _ 8 × |
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| | Firewall/Internet Conne | . Provides n | | Disabled | Lo |
| | Image Acquisition (WIA) | Provides im | | Disabled | Lo |
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As with the *SharePoint Timer Service* you should see the service shutting down. When complete ensure that the *Status* column is blank.

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| 🖃 🚞 Databases | STS_VSBS2003STD_1 | |
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Next, Start the *SQL Server Management Studio* for the version of SQL you have installed on the WSS v3 server. Under databases locate the WSS v3 content database (in this case *STS_VSBS2003STD_1*), **right mouse** click, select **Tasks**, then **Detach**.



The database will automatically be selected, simply click the **OK** button to detach the database from the SQL server.



When complete the database should no longer appear in the *SQL Server Management* window.

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Now locate the SQL database files using *Windows Explorer* and move them to the new location. Ensure that you copy both the .MDF and .LDF file associated with that database.



When the move process is complete you should see the files (in this case *STS_VSBS2003STD_1.mdf* and *STS_VSBS2003STD_1_log.ldf*).



Return to the *SQL Server Management* window, locate the *Databases* folder, right **mouse click** and select **Attach** from the menu that is displayed.

| Nicro 📊 Attach Databases | 🔰 Locate Database Fil | es - ¥SBS2003STD\MICROSOFT##SSEE | - 🗆 × | |
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| A A A A | Selected path: | E:\sp3 | | Remove |
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At the next window click the **Add** button to locate the database you wish to attach.

Browse to the new location of your databases and locate the .MDF file (in this case *STS_VSBS2003STD_1.mdf*). Highlight the database and press the **OK** button to continue.

| 🧏 Micro | 📔 Attach Databases | | Ы Х |
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| | | MDF File Location Database Attach As Owner Status Message | |
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| • • • | | Add | |
| | | "STS_VSBS2003STD_1" database details: | |
| | Connection | Original File Name File Type Current File Path Message | |
| | Server: | STS_VSBS2003ST Data E:\sp3\STS_VSBS2003 | |
| | \\.\pipe\mssql\$microsoft##ssee\: | STS_VSBS2003ST Log E:\sp3\STS_VSBS2003 | |
| | Connection: | | |
| | 5B520035TD \administrator | | |
| | View connection properties | | |
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You should now see both the database (.MDF) and log file (.LDF) files listed in the lower window. Press **OK** to attach this database.

| 🍢 Micro | 🧃 Attach Databases | | | | | | | | |
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| | | "STS_VSBS2003STD_ | 1" database (| details: | | | | | |
| | Connection | Original File Name | File Type | Current F | ile Path | м | essage | | |
| | Server: | STS_VSBS2003ST | Data | E:\sp3\ | STS_VSBS2003 | 3 | | | |
| | Compactions | 515_V585200351 | Log | E:\sp3\ | 515_95852003 | i <u></u> | | | |
| | SBS2003STD\administrator | | | | | | | | |
| | View connection properties | | | | | | | | |
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You should now see the progress display *Executing* in the lower left of the *Attach Databases* window.



When the process is complete you will be returned to the main *SQL Server Management* window. You should now see the name of the relocated database (in this case *STS_VSBS2003STD_1*) under the *Databases* folder.

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| | | Name A | Description | Statuc | Startun Tyne |
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| | Description | Windows Firewall/Internet Connectio | Provides n | | Disabled |
| | Sends notifications and performs | Windows Image Acquisition (WIA) | Provides im | | Disabled |
| | scheduled tasks for Windows SharePoint | Windows Installer | Adds, modi | | Manual |
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| Start service Windows Sh | arePoint Services Timer on Local Computer | | | | |
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Return to the Services management window. Locate the *Windows SharePoint Services Timer* service, **right mouse** click and select **Start** from the menu that appears.

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Locate the *World Wide Web Publishing Service*, **right mouse** click on the service and select **Start** from the menu that appears.

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In the list of *Services* you should see that both have *Started* displayed in the *Status* column.



If you return to your WSS v3 site and click on any link, you should find that it is now operating normally again.

8.7 Migrating to new SQL version

It is possible to move the SharePoint content databases from one version of SQL to another via a simple detach and reattach.

For most SQL databases the processes detailed here will be identical, however in this case we have chosen to illustrate the database migration from Microsoft SQL Embedded Edition (SSEE) to Microsoft SQL 2005 Express.

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Login to the SharePoint server console as an Administrator. Select **Start |Administrative tools | SharePoint 3.0 Central Administration**.

When this screen appears select the Application Management tab.

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| 🔆 Central Adı | ministration | | | |
| Home Operations | Application Management | | | Site Actions * |
| | Central Administration > Application M Application Managem | lanagement 1ent | | |
| View All Site Content | This page contains links to pages that help yo | u configure settings for applications | and components that are installed on the server or server farm | |
| Central Administration | SharePoint Web Application Manage | ment | Office SharePoint Server Shared Services | |
| Operations | E Create or extend Web application | | Create or configure this famils shared ceruices | |
| Application Management | Remove SharePoint from IIS Web site | | Grant or configure shared services between farms | |
| ch to i | Delete Web application | | Check services enabled in this farm | |
| Administration | Define managed paths | | Configure session state | |
| SharedServices | Web application outgoing e-mail settings | | | |
| Demula Bia | Web application general settings | | Application Security | |
| M Recycle bill | Content databases | | Security for Web Part pages | |
| | Manage Web application features | | Self-service site management | |
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On the *Application Management* screen click on **Content Databases** which is located under the *SharePoint Web Application Management* section.

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| View All Site Content | Use this page t | o manage content databases f | or this web applicat | tion. Click a conter | nt database name | to change its | properties. | | |
| Central Administration | 🛋 Add a co | ontent database | | | | | Web Application: | http://win2003en | t:7530/ - |
| Operations | Database Nar | me | 0 | Database Status | Current Numbe | r of Sites | Site Level Warning | Maximum Numbe | r of Sites |
| Management | WSS_Content | t_1058b9f56cf44e0d92a986b5 | bbc19f10 S | Started | 1 | | 9000 | 15000 | |
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On the *Manage Content Databases* screen locate the *Web Application* option in the top right of the screen. Ensure that it currently displays the correct SharePoint site from which you wish to migrate. If not, then click in the **Web Application** setting.

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| Home Operations Application Management Site A | ctions 🔻 |
| Central Administration > Application Management > Content Databases Manage Content Databases | |
| View All Site Content Use this page to manage content databases for this web application. Click a content database name to change its properties. | |
| Add a content database Web Appication: http://win2003ent:753 | 0/ - |
| Operations Database Name Database Status Current Number of Sites Site Level Warn Change Web Application | |
| Application WSS_Content_1058b9f56cf44e0d92a986b5bbc19f10 Started 1 9000 15000 | |
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To change the web application click the **Web Application** field and then select **Change Web Application** from the pull down that appears.

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From the list of SharePoint sites that appears select the desired one. In this case *SharePoint – 80*.

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| View All Site Content | Use this page to manag | ge content databases for this | web application. Click a content data | base name to change its prope | rties. | |
| Administration | Add a content | database | | | Web Application: http://win2003ent | t/ - |
| Operations | Database Name | Database Status | Current Number of Sites | Site Level Warning | Maximum Number of Sites | |
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The content database name for this SharePoint application should now be displayed (in this case WSS_Content). Again, ensure that the *Web Application* in the upper right is displaying the SharePoint from which you wish to migrate the database.

Take a note of the content database name because you will need to locate this database on the source SQL server.

Click on the content database name to configure.

| Anage Content Database Settings - Windows Internet Explorer | | | | | |
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| Vew Al Site Content Central Administration • Operations • Application Management Shared Services Administration • SharedServices © Recycle Bin | Use this page to update the properties of Warning: this page is not encrypter For more information, contact, year Database Information Spacify database contection actings for status options to control whether or not When the database status is set to Reas sites. When the database status is set to | a content database in the Web application. If or secure communication. User names administrator. this content database. Use the Database new sites can be created in the database new sites can be created in the database y, the database variable for homing new offline, no new sites can be created. | , passwords, and any other information will be sent in clear text. Database server WD12003BrTWhorsoft##SSEE SQL Server database name WSS_Content Database status Ready ■ Database submitication Wridows submitication | | |
| | Database Specify Specify Warning: There are accessible to users. Search server You can choose to associate a content dat the Windows SherPoint Services search Remove Content Database Use this section to remove a content data the Remove content database choic database. any view listed in that content database. | stes stored in this content database. If you ren Click OK to remove the database, or Cancel to ls OK Cancel tabase with a specific server that is running service. base from the server farm. When you select box and dick OK, the database as request from database are request from the server farm. | Select Windows SharePoint Services search server WIN2003ENT Remove content database | | |
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In the *Manage Content Database* settings screen that appears locate the option *Remove Content Database* and place a check in the box. Immediately upon doing this you will receive a warning like the one shown above. Select the **OK** button and you will return to the *Manage Content Database* Settings page.

Ensure there is a tick in *Remove content database* and press the **OK** button.



| You should now see no Content databases li | listed for your SharePoint site. |
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Select Start | Administrative Tools | Services.

Locate the *Windows SharePoint Services Administration* service. **Right mouse click** and select **Stop** from the menu that appears.

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Next, run the graphical administration tools for the version of SQL you have installed on the source database server.

Connect to the SQL database server. In this case because we are connecting to Microsoft SQL Server Embedded Edition the connection database name is \\.\pipe\mssql\$microsoft##ssee\sql\query.

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Expand the *Databases* folder and locate the source content database that you noted previously (in this case WSS_Content).



Right mouse click this database and Select Tasks | Detach from the menu that appears.

Click the **OK** button to detach the database. If you see something in the message field it normally indicates there is still a connection to that database. This normally means the SharePoint Server Administration service has not been shut down. To force the database to detach (not recommended) place a *check mark* in the first box called *Drop Connections*.

Press **OK** to detach the database from this version of SQL server.

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During the detachment process you should see the word *Executing* appear in the lower left of the windows along with a green snake indicating the command is being processed.

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When the database has been detached you will be returned to the main management window. You should now not that the database you detached no longer appears in the list.

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Close this version of the SQL management tools.

If you plan to relocate the content database files to another location or another server you will need to open Windows Explorer and locate the SQL data directory. In this case, because the source database is Microsoft SQL Server 2005 Embedded Edition the data files are located in *c*:\windows\sysmsi\ssee\mssql.2005\mssql\data.

Ensure you relocate both the .MDF and LDF files for the content database (in this case WSS_Content.mdf and WSS_Content_log.lef).



Once the content database files have been relocated into the new destination take note of their location in the file system for the attachment process into the destination SQL database server.

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Launch the graphical SQL management tools for the destination SQL server and connect to the desired database server (in this case WIN2003ENT\OFFICESERVERS).

Press the **Connect** button.



Locate the *Databases* folder and **right mouse click** on the folder. Select **Attach** from the menu that is displayed.



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At the *Attach Databases* window select the **Add** button.

Locate the copied destination content database in the file system, select it and press the **OK** button.

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Press the **OK** button to commence the database attachment process.

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While the process is running you will see the word *Executing* in the lower left of the screen as well a green snake indicating the command is processing.

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When the process is complete you should see the destination content database appear under the Databases folder (in this case WSS_Content).

Close the SQL Management tool window.

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Now go to the command prompt via **Start | Run | CMD**.

Change to the directory c:\program files\common files\Microsoft shared\web server extensions\12\bin.

At the command prompt type the following:

Stsadm –o addcontentdb –url http://<original_site_name> -databaseserver <Destination_SQL_Server> -databasename <destination_content_database>

In this case

Stsadm –o addcontentdb –url http://win2003ent -databaseserver win2003ent\officeservers -databasename WSS_Content

And press Enter.

The syntax used for different versions of SQL server may vary but it is generally of the form <Server_name/SQL_instance_name>

| es (Local) | Services (Local) | | | | | |
|------------|-----------------------------|--|---------------|---------|--------------|---------------|
| | Windows SharePoint Services | Name A | Description | Status | Startup Type | Log On As |
| | Administration | Telephony Telephony | Provides T | Started | Manual | Local System |
| | Chert the service | Telnet | Enables a r | | Disabled | Local Service |
| | start die service | Terminal Services | Allows user | Started | Manual | Local System |
| | 1 | 🐝 Terminal Services Session Directory | Enables a | | Disabled | Local System |
| | Description: | Themes | Provides u | | Disabled | Local System |
| | Windows SharePoint Services | Uninterruptible Power Supply | Manages a | | Manual | Local Service |
| | | 🙀 Upload Manager | Manages t | | Manual | Local System |
| | 1 | 🐝 Virtual Disk Service | Provides s | | Manual | Local System |
| | 1 | Wirtual Machine Additions Services Applica | Provides o | Started | Automatic | Local System |
| | 1 | Wirtual Machine Additions Shared Folder S | Provides s | Started | Automatic | Local System |
| | 1 | 🙀 Volume Shadow Copy | Manages a | | Manual | Local System |
| | | 🎨 WebClient | Enables Wi | | Disabled | Local Service |
| | 1 | 🍓 Windows Audio | Manages a | | Disabled | Local System |
| | 1 | 🍓 Windows CardSpace | Securely e | | Manual | Local System |
| | 1 | 🍓 Windows Firewall/Internet Connection Sh | Provides n | | Disabled | Local System |
| | 1 | 🍓 Windows Image Acquisition (WIA) | Provides im | | Disabled | Local Service |
| | 1 | 🇠 Windows Installer | Adds, modi | | Manual | Local System |
| | 1 | 🎭 Windows Internal Database (MICROSOFT | Windows I | Started | Automatic | Network S |
| | 1 | 🎨 Windows Management Instrumentation | Provides a | Started | Automatic | Local System |
| | 1 | Windows Management Instrumentation D | Monitors all | | Manual | Local System |
| | 1 | Windows Presentation Foundation Font C | Optimizes | | Manual | Local Service |
| | 1 | Windows SharePoint Services Administration | P 6 | 7 | Automatic | Local System |
| | | 🗞 Windows SharePoint Services Search | Start | Started | Manual | Local Service |
| | 1 | Windows SharePoint Services Timer | | Started | Automatic | Network S |
| | 1 | Windows SharePoint Services Tracing | | Started | Automatic | Local Service |
| | 1 | Windows SharePoint Services VSS Write | | | Manual | Local System |
| | 1 | Windows Time | | Started | Automatic | Local Service |
| | 1 | Windows User Mode Driver Framework | All Tasks 🕨 🕨 | | Manual | Local Service |
| | 1 | WinHTTP Web Proxy Auto-Discovery Sei | | - | Manual | Local Service |
| | 1 | Wireless Configuration | Refresh | | Automatic | Local System |
| | | WMI Performance Adapter | Properties | | Manual | Local System |
| | 1 | Workstation | - operates | Started | Automatic | Local System |
| | 1 | World Wide Web Publishing Service | Help | Started | Automatic | Local System |
| | | • <u> </u> | | - | | |

When this process has completed return to the *Services* windows and **right mouse click** on the *Windows SharePoint Services Administration* service and select **Start** from the menu that appears.

Close the Services window.



If you now return to the SharePoint 3.0 Central Administration | Application Management | Content Databases you should see the database displayed for the SharePoint again. Remember that you may need to select the correct SharePoint site from the upper right or refresh the page if you have not done so already.

| 🖉 Manage Content Dat | abase Settings - Windows Internet Explorer | × |
|--|--|---|
| 🕒 🕤 🗕 http:// | win2003ent:46362/_admin/oldcntdb.aspx?DatabaseId=%785180F303%2D1CFE%2D468E%2D | DA718%2D4C914CFA7E 🔹 🔄 🗙 Live Search |
| <u>File E</u> dit <u>V</u> iew F <u>a</u> vo | rites <u>T</u> ools <u>H</u> elp | |
| 🚖 🎄 🔏 Manage Co | ontent Database Settings | 🟠 + 🔝 - 🖶 + 🕞 Page + 🍥 Tools + 👌 |
| Home Operations | Application Management | Site Actions 👻 |
| | Central Administration > Application Management > Content Databases > M Manage Content Database Settings | lanage Content Database Settings |
| View All Site Content | Use this page to update the properties of a content database in the Web application. | |
| Central Administration | Warning: this page is not encrypted for secure communication. User names For more information, contact your administrator. | , passwords, and any other information will be sent in clear text. |
| Operations Application Management Shared Services Administration | Database Information Specify database connection settings for this content database. Use the Database status spokens to control whether or not new sites can be created in the database. When the database status is set to Ready, the database is available for hosting new sites. When the database status is set to Offline, new sites can be created. | Database server WIX2003EVITQFficeServers SQL Server database name WSS_Content |
| SharedServices Recycle Bin | | Database status Ready Image: Control of the status Database authentication Windows authentication |
| | Database Capacity Settings Specify capacity settings for this database. | Number of sites before a warning event is generated 9000 Maximum number of sites that can be created in this database [15000 |
| | Search Server You can choose to associate a content database with a specific server that is running the Windows SharePoint Services search service. | Select Windows SharePoint Services search server Select one Select one WIN20058NT |
| | Remove Content Database Use this section to remove a content database from the server farm. When you select the Remove content database check box and dick OK, the database is no longer associated with this Web application. Cautions: When you remove the content database, any sites listed in that content database are removed from the server farm, but the site data remains in the database. | C Remove content database |
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Click on the content database name to configure its settings.

Ensure that the *Search Server* has been set for this content database by simply pulling down from the selection list and selecting a server. Typically there will only be one.

You should also notice at the top of the server that the Database server is now different from what it was previously (in this case it now reads WIN2003ENT\OfficeServers instead of WIN2003ENT\Microsoft##SSEE).

Press the **OK** button once any configuration changes have been made.



Finally, ensure that the SharePoint web site displays correct by viewing it in a browser. Since you have changed the database server for this site you may also wish to set the default database server for any new SharePoint site to point to the same location. Use the following to complete this process.



Select **Start | Administrative Tools | SharePoint V3 Administration**. Then select the *Operations* tab.

Select the option **Default database server** under the *Data Configuration* heading.

| 🙋 Default Database Servei | r - Windows Internet Explorer | | - B × |
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| 🕒 🕤 👻 🙋 http://win2 | 2003ent:46362/_admin/defaultcontentdb.aspx | 💽 🔄 🗙 Live Search | P • |
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| Central Administration | | Welcome WIN2003ENT\administrator 🝷 | |
| 🔆 Central Admir | nistration | | |
| Home Operations Ap | plication Management | Site Action | - |
| | Central Administration > Operations > Default Database Server Default Database Server | | |
| View All Site Content Central | Use this page to set the default content database server. When you extend new web appli default content database server unless you specify a different server. Learn about changing | cations, the content databases for those web applications are created on the g settings for a content database. | |
| Administration Operations | Content Database Server | Database server: | |
| Application Management | Specify where to create content databases by default. | WIN2003ENT\Microsoft##SSEE | |
| Shared Services | Database Username and Password | Account | |
| SharedServices | Use this section only if you are using SQL Server aumentication to connect to SQL Server. It is strongly recommended that you use Windows authentication instead, in which case you should leave these fields blank. | Password | |
| @ Recycle Bin | | | |
| | | OK Cancel | 1 |
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Change the *Content Database Server* to the new server value.

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| Home Operations Ap | oplication Management | Site Actions 🕆 |
| | Central Administration > Operations > Default Database Server Default Database Server | |
| View All Site Content Central Administration | Use this page to set the default content database server. When you extend new web app default content database server unless you specify a different server. Learn about changi | ilications, the content databases for those web applications are created on the ng settings for a content database. |
| Operations Application Management | Content Database Server Specify where to create content databases by default. | Database server: WIN2003ENT\officeservers |
| Shared Services Administration SharedServices Recycle Bin | Database Username and Password Use this section only if you are using SQL Server authentication to connect to SQL Server. It is strongly recommended that you use Windows authentication instead, in which case you should leave these fields blank. | Account |
| Recycle an | | OK Cancel |
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© <u>www.ciaops.com</u> 29 December 2014 In this case it was changed to WIN2003ENT\officeservers.

This now means any new SharePoint content databases that are created will reside on this server.

8.8 Shrinking log files

The first step in the process is to ensure that you have good backups of the SQL databases and any SharePoint site that these databases depend upon.

You will also need to have the Microsoft SQL Management tools installed on the SharePoint machine. These can be downloaded from:

http://www.microsoft.com/downloads/details.aspx?FamilyID=c243a5ae-4bd1-4e3d-94b8-5a0f62bf7796&DisplayLang=en

You will find the log files in the data directory for SharePoint to determine the database files you wish to compress (in this case because it is Microsoft SQL 2005 Embedded Edition the data files are located in *c:\windows\sysmsi\ssee\mssql.2005\mssql\data*).

Note the name of the database logs you wish to compress.

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| Backup | SharePoint_Config_d8952fe6 | 8,384 KB | Database Primary File | 15/06/2009 3:10 PM | А | |
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| Co LOG | WSS_Content.mdf | 230,592 KB | Database Primary File | 15/06/2009 3:10 PM | А | |
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| C system | WSS_Content_1058b9f56cf4 | 2,304 KB | Database Log File | 15/06/2009 3:10 PM | А | |
| 🗉 🦳 system32 | WSS_Content_log.LDF | 63,424 KB | Database Log File | 15/06/2009 3:10 PM | А | |
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In this case we will compress the file *WSS_Content_log.dbf* (currently 64MB as shown above) which is tied to the SharePoint content database *WSS_Content.mdb*.

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Logon to the SharePoint server with administrator privileges. Select **Start | All Programs** | **SQL Server Management Studio Express.**

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At the connection screen enter the SQL server name and authentication method. In this case because we are using Microsoft SQL Server Embedded Edition use the following string for the *Server Name*:

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and press the **Connect** button.

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Select the database you wish to compress from under the *Databases* folder, in this case *WSS_Content*. **Right mouse click** and select **Properties** from the menu that appears.

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On the menu of the left select **Options**.

Change the *Recovery Mode* from **Full** to **Simple** to prevent the logs growing large in the future.

Press **OK** to continue.

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| Address Eile Edit View | operties - wss_content | | v 📑 Go |
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| 🗄 🧰 Server (| Auto Update Statistics Asynchronously | False | |
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| | Default Cursor | GLOBAL | |
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| Connection: | Cross-database Ownership Chaining Enabler | False | |
| WHINEDOSENT W | Date Correlation Optimization Enabled | False | |
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Once you press the **OK** button you will see the revolving *Executing* in the lower left of the screen.

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| 😮 Back 🔤 Microsoft SQL Server Management Studio Express | |
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| Folders New Query 👔 🥁 🕼 🚱 📴 🎥 🌮 👳 | |
| Object Explorer | → × |
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| | |
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| B U SharePoint_Config_d8952fe6-c127-4a91- | |
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Once that process is complete, return to the list of databases. **Right mouse click** on the database whose logs you wish to reduce, in this case *WSS_Content*, and from the menu that appears select **Tasks | Shrink | Files**.

| Ele Edt Lyow Favorites Tools Help Back Microsoft Stut Skrink File - WSS_Content Image: Skrink File - WSS_Content Adgress Ele Edw Script - Image: Scrip | |
|---|-----------|
| O Book Microsoft SQL Skrink File - WSS_content X Address (File Edit Yew Select a page Script + [] Help Folders Werk Query General X | 11 |
| | • 🔁 Go |
| Image: Server in Server i | |
| | 11-05 AM |

Pull down the *File Type* option and select **Log**.

| 🏠 Data | | | | | _ 8 × |
|------------------|--|--|--|------------|----------|
| <u>File</u> Edit | t <u>V</u> iew F <u>a</u> vorites | <u>T</u> ools <u>H</u> elp | | | 🥂 |
| 🔾 Back | Kicrosoft SQL | Shrink File - WSS Content | | | |
| Address 🛛 | <u>File Edit View</u> | Select a page | Script + The Help | | - 🔁 👳 |
| Folders | New Query | 🚰 General | | | |
| | Object Explorer | | The size of the database is reduced by shrinking individual files to release unallocated space. To shrink all database files, use Shrink Database | → × | |
| | <u> </u> | | | | |
| | Image: Image: Ima | | Database: WSS Content | | |
| | 🕑 🚞 Sys | | | | |
| | E Sha | | Database hies and hiegroups | 6 Item(s) | |
| | 🕀 🔰 WS: | | File type: | | |
| | 🕀 🔰 WS: | | Filegroup: Not applicable> | | |
| | | | File name: WSS_Content_log | | |
| | 🗉 🧰 Security | | Location: C:\WINDOWS\SYSMSI\SSEE\MSSQL.2005\MSSQL\DATA\WSS_Content | | |
| | E C Replicat | | Currently allocated space: 61.94 MB | | |
| | 🖲 🧰 Manage | | Available free space: 54.15 MB (87%) | | |
| | | | Shrink action | | |
| | | | | | |
| | | Connection | • Helease unused space | | |
| | | Server: | Heorganize pages before releasing unused space | | |
| | | \\.\pipe\mssql\$microsolt##ssee\: | Shrin <u>k</u> file to: 61 🚔 MB (Minimum is 0 MB) | | |
| | | Connection: WIN2003ENT VAdministrator | C Empty file by migrating the data to other files in the same filegroup | | |
| | | View connection properties | | | |
| | | Progress | | | |
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| E | 1 | | | | |
| ± 🧐 ± 🧕 | • | | OK Cancel | | |
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| 🖉 Start |] 🕑 🏉 😔 🕹 | 🔄 Data | Microsoft SQL Server Ma Shrink File - WSS_Con | | 11:06 AM |

With *Log* selected as the *File type* you will see the *Available Free space* option showing how much space will be freed in the process.

Ensure that the *Release unused space* is selected and press the **OK** button to continue.

| Data | | | | | | | _ 8 |
|---|-------|----------------------------|------------|-----------------------|---------------------|------------|-----------|
| File Edit View Favorites Tools Help | | | | | | | 4 |
| 🔇 Back 🝷 🕥 🖌 🏂 🖉 Search 🎼 Folders 🛛 🚱 I | (﴿ | × Ю | | | | | |
| Address 🛅 C:\WINDOWS\SYSMSI\SSEE\MSSQL.2005\MSS | QL\Da | ta | | | | | 💌 🔁 G |
| Folders | × | Name 🔶 | Size | Туре | Date Modified | Attributes | |
| 🗉 🚞 RegisteredPackages | - | 10CC49DE-1FD4-4A38-B436 | 1 KB | Security Certificate | 11/07/2008 6:00 PM | A | |
| 🗄 🪞 Registration | | 85C030FA-E6B6-460C-BC8C | 1 KB | Security Certificate | 1/05/2009 3:44 PM | A | |
| 🛅 repair | | CEFAB52D-A44F-480E-B265 | 1 KB | Security Certificate | 29/04/2009 3:01 PM | A | |
| 🗄 🫅 Resources | | EE31C2CB+2CC9-4803-9B39 | 1 KB | Security Certificate | 27/02/2007 3:02 PM | A | |
| 🗄 🫅 security | | master.mdf | 4,096 KB | Database Primary File | 15/06/2009 3:10 PM | A | |
| C SHELLNEW | | 🔤 mastlog.ldf | 768 KB | Database Log File | 15/06/2009 3:10 PM | A | |
| 🗉 🫅 SoftwareDistribution | | 🔟 model.mdf | 1,216 KB | Database Primary File | 15/06/2009 3:10 PM | A | |
| E SOL9 KB948109 ENU | | 🖬 modellog.ldf | 512 KB | Database Log File | 15/06/2009 3:10 PM | A | |
| 🗉 🦳 srchasst | | 🖬 msdbdata.mdf | 5,120 KB | Database Primary File | 15/06/2009 3:10 PM | A | |
| SxsCaPendDel | | 🔤 msdblog.ldf | 3,456 KB | Database Log File | 15/06/2009 3:10 PM | A | |
| 🗉 🦳 SYSMSI | | i mssqlsystemresource.ldf | 512 KB | Database Log File | 24/11/2008 3:27 PM | A | |
| E C SEE | | mssqlsystemresource.mdf | 39,360 KB | Database Primary File | 24/11/2008 3:27 PM | A | |
| E C MS50L 2005 | | SharePoint_AdminContent_4f | 36,032 KB | Database Primary File | 15/06/2009 3:10 PM | A | |
| | | SharePoint_AdminContent_4f | 3,840 KB | Database Log File | 15/06/2009 3:10 PM | A | |
| Backup | | SharePoint_Config_d8952fe6 | 8,384 KB | Database Primary File | 15/06/2009 3:10 PM | A | |
| F Bino | | SharePoint_Config_d8952fe6 | 1,792 KB | Database Log File | 15/06/2009 3:10 PM | А | |
| C Data | | tempdb.mdf | 8,192 KB | Database Primary File | 24/11/2009 4:39 PM | А | |
| | | templog.ldf | 768 KB | Database Log File | 24/11/2009 5:18 PM | А | |
| | | wss Content.mdf | 230,592 KB | Database Primary File | 15/06/2009 3:10 PM | А | |
| Cod SchemaSia | | WSS Content 1058b9f56cf4 | 14,528 KB | Database Primary File | 15/06/2009 3:10 PM | А | |
| Chemically Schemably | | WSS Content 1058b9f56cf4 | 2,304 KB | Database Log File | 15/06/2009 3:10 PM | А | |
| System Sector 20 | | WSS Content log.LDF | 504 KB | Database Log File | 14/12/2009 11:06 AM | А | |
| T Systemsz | | WSS Search WIN2003ENT.mdf | 3.264 KB | Database Primary File | 27/02/2007 3:19 PM | A | |
| TAP1 | | WSS Search WIN2003ENT f | 22,720 KB | Database Primary File | 15/06/2009 3:10 PM | A | |
| i asks | | WSS Search WIN2003ENT f | 7.616 KB | Database Log File | 15/06/2009 3:10 PM | Δ | |
| E imp | | WSS Search WIN2003ENT I | 768 KB | Database Log File | 27/02/2007 3:19 PM | A | |
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| Control Panel | | | | | | | |
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| 🥑 Recycle Bin | - | | | | | | |
| Start 3 4 G 🚳 | _ | | | | 1.5 | | 11:07 |
| Data | | | | | | | y 💻 11:07 |

The spinning *Executing* icon should operate in the lower left briefly.

If you now return to your file system you will see that the log file has been greatly reduced. In this case from 64MB to 0.5MB.

The log file for this database will not grow to such a size again as you have changed the recovery mode to simple.

There are ramifications concerning the recovery of the SQL database by changing the mode from *Full* to *Simple*. It is critical that SharePoint databases be backed up by a number of different methods for redundancy. For further information about SQL backups please see:

Backing Up and Restoring Databases in SQL Server - <u>http://technet.microsoft.com/en-us/library/ms187048.aspx</u>

The following KB article from Microsoft

SBS 2008 BPA Reports that The Windows SharePoint Services configuration databases log file is getting large (currently over 1gb in size) - <u>http://support.microsoft.com/default.aspx?scid=kb;en-us;2000544</u>

Also provides instructions for reducing the log files via a SQL script:

1. Open notepad and Copy and paste the following text into notepad. Save the file as c:\logshrink.sql

```
declare @ConfigDB varchar(255);
declare @ConfigDBLog varchar(255);
declare @ConfigDBCmd varchar(255);
select @ConfigDB = name from sys.databases where name like 'SharePoint_Config_%';
set @ConfigDBCmd = 'BACKUP database [' + RTRIM(@ConfigDB) + '] to
disk="C:\windows\temp\before.bkf";
execute(@ConfigDBCmd);
set @ConfigDBCmd = 'use [' + RTRIM(@COnfigDB) + ']';
execute(@ConfigDBCmd);
set @ConfigDBCmd = 'BACKUP LOG [' + RTRIM(@ConfigDB) + '] WITH TRUNCATE ONLY';
execute(@ConfigDBCmd);
set @ConfigDBCmd = 'use [' + RTRIM(@COnfigDB) + ']';
execute(@ConfigDBCmd);
select @ConfigDBLog = name from sys.database_files where name like 'SharePoint_Config%_log';
set @ConfigDBCmd = 'use [' + RTRIM(@ConfigDB) + '] DBCC SHRINKFILE([' + RTRIM(@ConfigDB) +
' log],1)';
execute(@ConfigDBCmd);
set @ConfigDBCmd = 'BACKUP database [' + RTRIM(@ConfigDB) + '] to
disk="C:\windows\temp\after.bkf";
execute(@ConfigDBCmd);
go
```

2. Open an elevated command prompt and run the following command:

```
sqlcmd -S \\.\pipe\mssql$microsoft##ssee\sql\query -E -i c:\logshrink.sql
```

This script will create two backup files (before.bkf and after.bkf) in C:\windows\temp.

8.9 Installing SQL 2008 on Windows Server 2008 R2

If you attempt to install SQL Server 2008 onto Windows Server 2008 R2 you will normally be greeted with the following warning:

| 🚛 Program | Compatibility Assistant | × |
|-----------------------------|--|---|
| This progr | am has known compatibility issues | |
| Check online automatical | e to see if solutions are available from the Microsoft website. If solutions are found, Windows will y display a website that lists steps you can take. | |
| - | Program: Microsoft SQL Server 2008 Publisher: Microsoft Location: D:\SETUP.EXE | |
| After SQL So pack before | erver Setup completes, you must apply SQL Server 2008 Service Pack 1 (SP1) or a later service you run SQL Server 2008 on this version of Windows. | |
| Hide de | etails Check for solutions online Run program Cancel | |

This indicates that there are issues with the RTM version of SQL Server 2008 on Windows Server 2008 R2 and the proposed resolution given here is to install SQL Server 2008 Service Pack 1 directly after SQL Server 2008 has been installed to resolve the issues. However, this is not the case and if you proceed using this method it will result in SQL Server 2008 not functioning correctly even after applying the Service pack on Windows Server 2008 R2.

To allow SQL Server 2008 to install correctly on Windows Server 2008 R2 you firstly need to download and install SQL Server 2008 Service Pack 1. The Service Pack can be downloaded from:

http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=66 ab3dbb-bf3e-4f46-9559-ccc6a4f9dc19

Double click on the download to commence the installation.



Check the option "I accept the license terms" and press the Next button to continue.

| 🚼 SQL Server 2008 Setup | | |
|-----------------------------------|--|-------------------------------------|
| Setup Support Files | | |
| Click Install to install Setup Su | oport files. To install or update SQL Serv | ver 2008, these files are required. |
| License Terms | The following components are | required for SQL Server Setup: |
| Setup Support Files | Feature Name | Status |
| | Setup Support Files | |
| | | |
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You will now be prompted to install the *Setup Support Files*. These files, which come with SQL Server 2008 Service Pack 1, allow the correct installation of SQL Server 2008 onto Windows Server 2008 R2 since they are newer than the original setup files that come with the RTM release of SQL Server 2008 release.

Click on the **Install** button to install the setup files.



You should now see the setup files being copied to your machine.



When the SQL setup files have been copied, the installation program will close and you will be returned to your desktop.

You now need to install the full RTM SQL Server 2008 package now.



Even though you have installed updated setup files you will still receive the above warning when you attempt to install RTM SQL Server 2008. Simply click on the **Run program** button to continue.



At the SQL installation menu select the *Installation* option on the left and then the **New SQL Server stand-alone installation** from the right. The installation will now commence.



Chances are that you'll again be prompted by the compatibility warning about SQL Server 2008 on Windows Server 2008 R2. Simply click the **Run program** button again if displayed.

| 🎋 SQL Server 2008 Setup | | _ 🗆 🗙 |
|--|---|--------|
| Setup Support Rules | | |
| Setup Support Rules identify problem before Setup can continue. | is that might occur when you install SQL Server Setup support files. Failures must be corrected | |
| Setup Support Rules | Operation completed. Passed: 6. Failed 0. Warning 0. Skipped 0. | |
| | Show details >> View detailed report | Re-run |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | OK Cancel | Help |

The normal installation should now run. Once the setup rules have completed press the **OK** button to proceed.

| SQL Server 2008 Setup | | - · · · · · · · · · · · · · · · · · · · |
|-------------------------------------|--|---|
| Setup Support Files | | |
| Click Install to install Setup Supp | ort files. To install or update SQL Serv | er 2008, these files are required. |
| | | |
| Setup Support Files | The following components are | required for SQL Server Setup: |
| | Feature Name | Status |
| | Setup Support Files | In Progress |
| | | |
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| | Setting feature install state | |
| | Secting road are install states | |
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| | | |
| | | < Back Install Cancel |

At this point the SQL Setup Support Files will be loaded. You need to press the **Install** button to continue, however what happens in the background is that the current installation sees that newer SQL Setup Files have been installed (i.e. from the previous Service Pack installation) and therefore leaves the newer files in place.

You can now proceed with the rest of the SQL Server 2008 installation as normal.

Once the SQL Server 2008 installation is complete you must immediately install the SQL Server 2008 Service Pack 1 to update all the SQL files since the previous installation of the Service Pack only did the SQL Setup Files.

With both SQL Server 2008 and SQL Server 2008 Service Pack 1 installed your installation on Windows Server 2008 R2 should now function correctly.

8.10 Recreating Search database

In the rare even that the search database for Windows SharePoint Services 3.0 becomes corrupt or unusable here is how to create a new one. The SharePoint search Database simply contains index information about the SharePoint site and can be recreated at any time.



If you go into the SQL Server Management Studio Express you should be able to identify the search database that you are having an issue with. In this case we can see that it is WSS_SEARCH_SERVERF.

| Central Administration | | Welcome SERVERF\# |
|----------------------------|---|--|
| 🛞 Central Adi | ministration | |
| Home Operations | Application Management | |
| | Central Administration > Operations Operations | |
| View All Site Content | This name contains links to names that help you man | one your server or server farm, such as channing th |
| Central Administration | topology, specifying which services are running on applications. | each server, and changing settings that affect multi |
| Operations Application | Topology and Services | Global Configuration |
| Management | # Servers in farm | Timer job status |
| Recycle Bin | = Services on server | = Timer job definitions |
| | Outgoing e-mail settings | Alternate access mappings |
| | # Incoming e-mail settings | # Manage farm features |
| | Approve/reject distribution groups | Solution management |
| | Security Configuration | Backup and Restore |
| | # Service accounts | = Perform a badup |
| | * Information Rights Management | · Backup and restore history |
| <u></u> | a Antivinis | # Destree from haring |

Open the **SharePoint Central Administration**. Select the **Operations** tab and then select **Services on Server** from under the *Topology and Services* heading.

| entral Administration | | | Welcome S | ERVER/ Jadministrato | *18 |
|---------------------------|---|--------------------|-----------|----------------------|----------|
| Central Ad | ministration | | | | |
| Home Operations | Application Management | | | stek | stores." |
| | Central Administration > Operations > Services on Server: S | | | | |
| View All Site Content | 1 | | | | |
| Central Administration | Complete all steps below | | | | |
| Operations | R Server: SERVERF • | | | | |
| Application | Start services in the table below: | | | | |
| The openent | | | West | Configurable | |
| Recycle Bin | Service Co | ment | Status | Action | |
| | Central Administration | | Started | Stop | |
| | Windows SharePoint Services Incoming E-Mail | | Started | Stop | |
| | Windows SharePoint Services Search | | Started | Stop | |
| | Windows SharePoint Services Web Application | | Started | Stop | |
| | 18 When finished, return to the Central Admini | stration home page | | | |

Locate the line *Windows SharePoint Services Search* and press the **Stop** hyperlink to the right.



You will then receive a message like shown above telling you that the index files will be deleted. Press **OK** to continue.

| Central Administration > Operations Services on Server: | SERVERF | | |
|--|-------------------------------|---------|----------------|
| Complete all steps below | | | |
| Server: SERVERF | | | |
| Start services in the table below: | | | |
| | | View: | Configurable • |
| Service | Comment | Status | Action |
| Central Administration | | Started | Stop |
| Windows SharePoint Services Incoming E-Mail | | Started | Stop |
| Windows SharePoint Services Search | Required on Farm, not running | Stopped | Start |
| Windows SharePoint Services Web Application | | Started | Stop |

After a few moments you should see that the *Status* changes to **Stopped**. Now select the hyperlink **Windows SharePoint Services Search** on the left or the **Start** button on the right.

| Central Administration > Operations Service Settings Configure Windows Settings on server S | Services on Server > Windows SharePoint Services Search SharePoint Services Search Service SERVERF |
|--|---|
| Use this page to configure Windows Shared Warning: this page is not encrypted other information will be sent in clea | Point Services Search Service Settings. for secure communication. User names, passwords, and any ar text. For more information, contact your administrator. |
| Service Account The search service will run using this account. The search service account must not be a built-in account in order to access the database. Examples of built-in accounts are Local Service and Network Service. | Select an account for this component Predefined Local Service User name Password Password |

Complete the details for the Service Account. This is account that the SharePoint Search Service runs as. Best practice is to have a dedicated account with a password that doesn't expire and <u>NOT</u> use the Local service. This account will automatically be given full read only rights to all SharePoint data. Scroll down.

| Content Access Account The search service will access all content using this account. The account will be added to the Full Read policy, giving it read-only access to all content. For proper search functionality and information security, do not use an administrator account, and do not use accounts that can modify content. | Select an account for this component Predefined Local Service C Configurable User name Password |
|---|---|
| Search Database 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 SERVERF\Microsoft##SSEE Database Name WSS_Search_SERVERF Database authentication Windows authentication (recommended) SQL authentication Account Password |

Now select a Content Access Account. This account will be used to crawl (read) all the SharePoint data and index it. Again, best practice is that it should be a dedicated account with a password that doesn't expire and <u>NOT</u> the Local Service.

In the *Search Database* fields you will see the *Database Server* name and the Search *Database Name* (here WSS_SEARCH_SERVERF).

| ■ Search Database 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 SERVERF\Microsoft##SSEE Database Name WSS_NEW_SEARCH_DB Database authentication Windows authentication (recommended) SQL authentication Account Password |
|--|---|
| Indexing Schedule Configure the indexing Schedule. | Indexing schedule: Every S Minutes C Hourly between and minutes past the hour C Daily Between 12 AM 10 10 and 12 AM 10 00 |
| | OK Cancel |

Enter a new name for the SharePoint Search database (here WSS_NEW_SEARCH_DB) and leave the other settings as is.

Press the **OK** button to create the Search database and start the SharePoint Search Service.



You will have to wait a few minutes while the Search Service is configured and started.

| entral Administration > Op Services on Set | verations > Services on Server | | |
|--|----------------------------------|---------|----------------|
| Complete all steps be | low | | |
| Server: SERVERF Start services in the table below | • | | |
| | | View: | Configurable • |
| Service | Comment | Status | Action |
| Central Administration | | Started | Stop |
| Windows SharePoint Services I E-Mail | ncoming | Started | Stop |
| Windows SharePoint Services S | earch | Started | Stop |
| Windows SharePoint Services V Application | Veb | Started | Stop |
| When finished, return to the | Central Administration home page | | |

You should see that the Windows SharePoint Services Search is now started.



If you refresh the databases view you should now see the new Search database you created that is now operating with SharePoint. You can detach and remove the old database to avoid confusion.



Depending on how much database you have on your site it might take a while to completely reindex the search results. You can of course always do a full crawl manually if you want. Beware that the first crawl (whether automatic or forced) will be a major crawl (since it is new empty search database) and will thus be a very intensive process that may impact the performance of the server.

The last thing you should do is run a search from the SharePoint site to ensure everything is now working as expected.

8.11 Checking and fixing SQL Database

There is of course some troubleshooting you can do before recreating an SQL database. This is generally to check and repair the database using the SQL command DBCC CHECKDB like so.



For arguments sake, let's say that the database WSS_SEARCH_SERVERF is corrupt. Firstly login to the *Microsoft SQL Server Management Studio Express* and expand the *Database* folder so you can see each database.

The first step will be to put the database into single user mode so that only SQL can work on it exclusively while it is being repaired. Single user mode means that only a single program will be able to use the database. If another process is using the database now and we put the database into single user mode that process will typically grab the database and not allow us to work on it. Thus, you should stop anything else that is currently access the database so SQL Management can gain exclusive access.

Because this is a SharePoint Search database we know that the only thing that should be accessing this is the SharePoint Search Service.

| Windows SharePoint Services | Name - | Description | Status | Startup Type | Log On As | |
|----------------------------------|--|-------------|---------|--------------|-----------------------|---|
| Search | Q Volume Shadow Copy | Manages a | | Manual | Local System | |
| | C Windows Audio | Manages a | | Manual | Local Service | |
| Stop the service | 🖓 Windows Audio Endpoint Builder | Manages a | | Manual | Local System | |
| SCHOOL ONE BELVICE | C Windows CardSpace | Securely e | | Manual | Local System | |
| | G Windows Color System | The WosPI | | Manual | Local Service | |
| Vescription: | Q Windows Driver Foundation - User-m | Manages u | | Manual | Local System | |
| harePoint user and help content. | Q Windows Error Reporting Service | Allows erro | | Manual | Local System | |
| | Q Windows Event Collector | This servic | | Manual | Network S | |
| | 🔍 Windows Event Log | This servic | Started | Automatic | Local Service | |
| | 🔍 Windows Firewall | Windows Fi | Started | Automatic | Set | |
| | C Windows Font Cache Service | Optimizes | Started | Automatic (D | Stop | |
| | 🔾 Windows Installer | Adds, mod | | Manual | Paulie | |
| | Windows Internal Database (MICROS | Windows L | Started | Automatic | Resime | |
| | 🔍 Windows Licensing Monitoring Service | This servic | | Automatic | Restart | |
| | Q Windows Management Instrumentation | Provides a | Started | Automatic | | 1 |
| | Windows Modules Installer | Enables ins | Started | Manual | All Tasks | • |
| | Q Windows Presentation Foundation Fo | Optimizes | | Manual | Refresh | |
| | Q Windows Process Activation Service | The Windo | Started | Manual | | |
| | 🖓 Windows Remote Management (WS | Windows R | Started | Automatic (D | Properties | |
| | Q Windows SharePoint Services Adminis | Performs a | | Manual | Help | |
| | Q Windows SharePoint Services Search | Provides fu | Started | Manual | THE REAL PROPERTY AND | _ |
| | Q Windows SharePoint Services Timer | Sends notif | Started | Automatic | Network S | |
| | C Windows SharePoint Services Tracing | Manages tr | Started | Automatic | Local Service | |
| | Q Windows SharePoint Services VSS Wri | Windows S | | Manual | Local System | 1 |
| | 🔍 Windows Time | Maintains d | | Manual | Local Service | 1 |

Therefore go into the Windows Services console and locate the appropriate SharePoint Search Service. In this case it is *Windows SharePoint Search Service* since the source system is WSS v3. **Right mouse click** on the service and select **Stop** from the menu that appears. You may also want to actually **Disable** the service to prevent it from re-running itself. If you are checking a SharePoint Search Database then this would be recommended as SharePoint Search will reactive on a regular basis and grab the database.

After a few moments the SharePoint Search Service will show nothing in the *Status* column indicating it is not running.

| Database Properties - WSS_ Select a page | Search_SERVERF | | | |
|---|---|-------------------|------------|--------|
| 🚰 General | Donte . Climb | -0.7 | | |
| Fies Fies Fies Options Options Permissions Edended Properties | Collation: Latin1_General_CI_A | | _AS_KS_WS | * |
| | Recovery model: | Simple | | |
| | Compatibility level: | SQL Server 2005 (| 90) | |
| | Other options: | | | |
| | E Miscellaneous | | | |
| | ANSI NULL Default | | False | |
| | ANSI NULLS Enabled | | False | |
| | ANSI Padding Enabled | | False | |
| | ANSI Warnings Enabled | | False | |
| | Arthmetic Abort Enabled | | True | |
| | Concatenate Null Yields Null | | False | |
| | Cross-database Ownership Chaining Enabled | | False | |
| | Date Correlation Optimization Enabled | | False | |
| | Numeric Round-Abort | | False | |
| | Parameterization | | Simple | |
| | Quoted Identifiers Enabled | | False | |
| Connection | Recursive Triggers Enabled | | False | |
| Server: | Trustworthy | | False | |
| //_/pipe/mssql@microsoft##ssee/a | E Recovery | | | |
| Connection | Page Verfy | | CHECKSUM | |
| SERVERF\Administrator | E State | | | |
| | Database Read-Only | | False | |
| Wew connection properties | Database State | | NORMAL | |
| | Restrict Access | | MULTI_USER | 1 |
| Yogras | | | | |
| O Ready | Restrict Access | | | |
| | A | | ОК | Cancel |

Return to the SQL Management console, right mouse click on the database in question and select **Properties** from the menu that appears.

In the dialog that appears select **Options** on the left and then scroll down on the right until you locate the *State* section at the bottom. There you will see a line *Restrict Access*. Change this to **SINGLE_USER** and press the Ok button to continue.

You will be prompted about closing connections to this database. Press **OK** to proceed.

| Hisrosoft SQL Server Hanagement Studio Expre Fie Edit View Tools Window Community H New Query 1 2 2 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | ນ. ອີ ອີ |
|---|---|
| System Databases System Databases System Databases Security USS_Content_c52(0):00-00 Security USS_Content Wiss_Content Wiss_Conten | WSS_Search_SERVERF (Single User) SERVERF (Single User) Name |
| ⊞ ⊇ Replication ⊞ ⊇ Management | |

When you are returned to the main SQL Management console you should see a small person icon over the database and the name of the database should have (Single User) displayed after it.



If you now select the **New Query** button (just under the File menu in the top left of the screen), it will open a blank area on the right. Into here type:

dbcc checkdb ('<databasename>');

in this case:

```
dbcc checkdb ('wss_search_serverf');
```

then press the **Execute** button just above. This will simply examine the database for issues and report back the results.

The window below will show the output from this check process. Examine the log to determine the issues that may be evident.

Prior to actually completing a repair of the suspect database it is recommended that you have some form of backup.

To proceed with the rebuild and repair change the query to:

dbcc checkdb ('<databasename>', repair_rebuild);

in this case:

dbcc checkdb ('wss_search_serverf', repair_rebuild');

You may need to run this command a few time to complete all the repairs. Check the output of the repair for the results.

Hopefully, the database has successfully been repaired and now you can put it back to MULTI_USER mode by reversing the process detailed earlier via **Properties | Options | Restrict Access**.



With the database now back in multi-user mode you should be able to start the dependent services and everything should now work as expected. Don't forget to change the mode of any dependent services from disabled in the Windows Services management console if you disabled them earlier.

8.99 Conclusion

This guide continues to be a work in progress and I encourage comments and feedback of any type. The only way that the Guide will improve if these is continued feedback.

Please send your comments and feedback to <u>director@ciaops.com</u>.