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History

<table>
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<tr>
<th>Version</th>
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Required Software
This guide describes installing *Windows SharePoint Services 2.0* on a *development workstation*.

Typical benefits are:

- Providing a runtime environment for web parts development.

To avoid conflicts with existing web applications, we choose a non-intrusive approach here:

- Windows SharePoint Services should work with an existing (local) SQL Server 2005 instance. Any edition of SQL Server 2005 (including the SQL Server 2005 Express Edition) is appropriate.
- No existing web site should be extended by Windows SharePoint Services. A new web site will be created to be extended by Windows SharePoint Services.

The new SharePoint extended web site should be associated with a separate application pool.

Windows SharePoint Services 2.0 is an add-on for Windows Server 2003. *So, Windows Server 2003 is required!*

These are the prerequisites for installing Windows SharePoint Services 2.0:

- *Latest patch level*, i.e. all patches from the Microsoft Update web site installed.
- *Application Server Role enabled* (so that IIS, ASP.NET are available).
- *.NET Framework 2.0* (required by SQL Server 2005) and *.NET Framework 1.1* (required by Windows SharePoint Services 2.0).

The Windows SharePoint Services 2.0 can be downloaded for free from the Microsoft web site. We will set up the *Windows SharePoint Services with Service Pack 2*.

*Caution*: There are also distributions of SharePoint Services and SharePoint Services SP2 as stand-alone packages. *Be sure that you install the package containing SP2*.

Install the language version of the Windows SharePoint Services compatible with the language version of your operating system. If you need different languages of SharePoint extended web pages, additional SharePoint Language Template Packs can be installed.

**Windows SharePoint Services and Frontpage Server Extensions**
Windows Server 2003 includes the *Frontpage 2002 Server Extensions* as a component that can be installed optionally.
If the Application Server Role is enabled (required for setting up Windows SharePoint Services!) or if Visual Studio 2003 is installed, it is very likely that the Frontpage Server Extensions are already installed.

This is no problem, as long as the following restriction is obeyed:

*Windows SharePoint Services and Frontpage 2002 Server Extensions must never extend the same web site!*

Usually, there is a *Default Web Site* listening at port 80.

Installing the Frontpage 2002 Server Extensions, you get another web site called *Microsoft SharePoint Administration* listening at a port randomly chosen by the setup program. This name is confusing since this web site has *nothing* to do with SharePoint.

Installing the Windows SharePoint Services 2.0, we will set up two more web sites, the *SharePoint Site* listening on port 8081, and the *SharePoint Central Administration* web site listening on a port randomly chosen by the setup program.

Here is the configuration we want to achieve:

- The *Default Web Site (port 80)* might optionally be extended by the *Frontpage 2002 Server Extensions*, but will not be extended by the Windows SharePoint Services.
- The *SharePoint Site (port 8081)* will be extended by the *Windows SharePoint Services*.
- All other web sites are *not extended* by any of those services.
This configuration is displayed in Frontpage Server Extensions 2002 Server Administration like this:

FrontPage Server Extensions 2002:
Server Administration

The links below take you to administration pages where you can specify the rights available for roles, set installation defaults, and reset user passwords:

- Set list of available rights
- Set installation defaults
- Reset user password

Virtual Servers

The following virtual servers are available on this machine. To perform site administration tasks for a virtual server, click the virtual server name. To specify configuration settings for a virtual server, click Administration. To Extend FrontPage Server Extensions 2002 to a virtual server, click Extend. To upgrade to the latest version of FrontPage Server Extensions 2002, click Upgrade.

<table>
<thead>
<tr>
<th>Name</th>
<th>URL</th>
<th>Version</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default Web Site</td>
<td><a href="http://picard/">http://picard/</a></td>
<td>5.0.2.5012</td>
<td>Administration</td>
</tr>
<tr>
<td>SharePoint Site</td>
<td><a href="http://picard:8081/">http://picard:8081/</a></td>
<td>6.0.2.6411</td>
<td>Extend</td>
</tr>
<tr>
<td>SharePoint Central Administration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual Server</td>
<td><a href="http://picard1024/">http://picard1024/</a></td>
<td>Not Installed</td>
<td>Extend</td>
</tr>
</tbody>
</table>

Do **not** extend any of the unextended sites with Frontpage 2002 Server Extensions!

Here is the SharePoint Central Administration view of the same configuration:

Windows SharePoint Services:
Virtual Server List

To perform administration tasks for a virtual server, click the virtual server name. To view all virtual servers for this server computer, go to the complete list.

<table>
<thead>
<tr>
<th>Name</th>
<th>URL</th>
<th>Version</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default Web Site</td>
<td><a href="http://picard/">http://picard/</a></td>
<td>5.0.2.5012</td>
<td>Upgrade</td>
</tr>
<tr>
<td>Virtual Server</td>
<td><a href="http://picard1024/">http://picard1024/</a></td>
<td>Not Installed</td>
<td>Extend</td>
</tr>
</tbody>
</table>

Do **not** upgrade the Default Web Site to SharePoint Services!
Setting up Windows SharePoint Services

We are installing the *Windows SharePoint Services 2.0 distribution package including Service Pack 2*.

Open a command prompt, navigate to the folder where the setup package is located, and execute

```
setupsts.exe remotesql=yes
```

Wait for the **License Agreement** dialog. Confirm to **Accept the terms in the License Agreement** and click **Next**.
Choose the **Server Farm** setup type. Do *not* choose the Typical Installation!

Click **Next**.

<table>
<thead>
<tr>
<th>Recommended Install</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Typical Installation</strong></td>
<td>Install Windows SharePoint Services for use in a server farm with one or more front-end Web servers and back-end database servers. This option does not configure the IIS Default Web site. After installation, you must specify the path to a Microsoft SQL Server instance and set up your SharePoint sites manually.</td>
</tr>
<tr>
<td><strong>Server Farm</strong></td>
<td></td>
</tr>
</tbody>
</table>
Confirm to start the setup process by clicking **Install**.
Wait for the setup process to finish. This can take several minutes and a couple of command windows (iisreset, ...) might become visible.
On completion of the setup process, the **Configure Administrative Virtual Server** web page is automatically opened in Internet Explorer.

*Close the configuration page. It will not work at this stage!*

*Continue with the post-setup configuration steps!*

---

**Configure Administrative Virtual Server**

Use this page to change the IIS application pool for the SharePoint solution.

**Application Pool**

Select or define the IIS application pool that SharePoint will use.

Enter security account information for the application pool. The application pool will run under.
Post-Setup Configuration

The post-setup configuration steps are important to finalize the installation of Windows SharePoint Services!

Create Local User Accounts

In the Local Users and Groups MMC snap-in, create two local user accounts:

- apstsadmin
- apsts

(ap = application pool.) Be sure that Password never expires.
Be sure that both accounts (apstsadmin and apsts) are members of both the **IIS_WPG** and the **STS_WPG** group.
**Configure SharePoint Application Pools**

The StsAdminAppPool has been created automatically during setup of Windows SharePoint Services. In the rare case that the StsAdminAppPool has not been created automatically, *create it now!*

In IIS Manager snap-in, right-click StsAdminAppPool, and set the application pool’s identity to `<NameOfWorkstation>\apstsadmin`.

Right-click StsAdminAppPool once again, and click first Stop and then Start (i.e. restart the application pool).

Right-click the Application Pools node and choose New -> Application Pool.
Type **StsAppPool** as the name of the new application pool, and confirm the default settings by clicking **OK**.

Right-click the newly generated **StsAppPool**, choose **Properties**, and set the **Identity** of the application pool to `<NameOfWorkstation>\apsts`.

Restart the **StsAppPool**.
Configure Data Access Credentials

Open the Microsoft SQL Server Management Studio, and connect to the (local) SQL Server 2005 instance which will be storing the SharePoint administration and content databases.

Right-click Security -> Logins, and choose New Login.
On the **General** page, type in (or choose) `<NameOfWorkstation>\apstsadmin`. Choose **Windows Authentication**.
Switch to the **Server Roles** page, and select **dbcreator** and **securityadmin**. Click OK.
Create the SharePoint Configuration Database
Now the apstsadmin account has sufficient credentials for creating the SharePoint Configuration Database.

Open All Programs -> Administrative Tools -> SharePoint Central Administration.

Choose Use an existing application pool and select StsAdminAppPool.

On the same web page, choose NTLM as security configuration. Click OK.

Follow the advice to execute iisreset at a command prompt, and click OK after iisreset has been finished.

Windows SharePoint Services
Application Pool Changed

The IIS application pool for the SharePoint administrative virtual server has been successfully changed.
You must now restart IIS. To restart IIS, open a command prompt window and type iisreset.
After IIS has been restarted, click "OK".
The **Set Configuration Database Server** web page opens up.

**Database server**: Type the name of the SQL Server 2005 instance which will store the configuration database. If the local default instance is intended, this is just the name of your workstation.

Type **stsadmin** as the name of the configuration database.

**Use Windows authentication.**

Select **Users already have domain accounts. Do not create active directory accounts.**

Click **OK.**
Now the **Central Administration** web page opens up. This indicates that the configuration database has been created successfully. To be sure, confirm the existence of stsadmin in the SQL Server Management Studio.

### Central Administration

Use the links on this page to configure virtual server, security, server, and component settings for Windows SharePoint Services.

#### Virtual Server Configuration

Use these links to install Windows SharePoint Services on a new virtual server, configure settings across all sites on a virtual server, or create a new top-level Web site.

- Extend or upgrade virtual server
- Create a top-level Web site
- Delete site collection
- Configure virtual server settings

#### Security Configuration

Use these links to update the security options which impact all virtual servers, and to add, update, or change user information for a single top-level Web site.

- Set SharePoint administration group
- Manage site collection owners
- Manage Web site users
- Manage blocked file types
- Configure antivirus settings

#### Server Configuration

Use these links to set and update server connections including e-mail, databases, and Web servers.

- Configure default e-mail server settings
- Manage Web server list
- Set default content database server
Set the Default SharePoint Content Database Server
What is missing is at least one SharePoint content database. First, we set the default content database server.

Open All Programs -> Administrative Tools -> SharePoint Central Administration.

In the Server Configuration section, click Set default content database server.

Server Configuration

Use these links to set and update server connections incl.

- Configure default e-mail server settings
- Manage Web server list
- Set default content database server
- Set configuration database server
- Configure HTML Viewer
- Configure virtual server for central administration

Type the name of the SQL Server 2005 instance which should store the default content database. If the local default instance is intended, this is just the name of your workstation.

Click OK.
Create the SharePoint Site
Since we don’t want to extend the Default Web Site with Windows SharePoint Services, we create a separate web site for SharePoint.

Create an appropriate physical folder for the new web site.

In IIS Manager snap-in, right-click Web Sites, and choose New -> Web Site.

Confirm the Welcome dialog by clicking Next.
Type **SharePoint Site** as **Description** of the web site. Click **Next**.

![Web Site Description](image)

Type a description of the web site.

**Description:**

SharePoint Site

![Next button](image)

Type **8081** as **TCP port this site should use**. Click **Next**.

![IP Address and Port Settings](image)

Enter the IP address to use for this Web site:

[All Unassigned]

TCP port this Web site should use (Default: 80):

8081

Host header for this Web site (Default: None):

![Next button](image)

For more information, read the IIS product documentation.
Choose an appropriate physical folder, e.g. D:\WebApps\StsSite.

Allow anonymous access.

Click Next.

Confirm the default Web Site Access Permissions. Click Next.
Confirm the successful creation of the web site by clicking **Finish**.
Now, in IIS Manager snap-in, right-click the SharePoint Site, and choose Properties.
Select the **Home Directory** tab, and choose the **StsAppPool** as the web site’s **application pool**.

Choose **Execute permissions: Scripts only**.

Click **OK**.

At a command prompt, execute **iisreset**.
Extend the SharePoint Site

We are now going to extend the SharePoint Site with the SharePoint Services. This will create a SharePoint content database for this site.

Open All Programs -> Administrative Tools -> SharePoint Central Administration.

In the Virtual Server Configuration section, click Extend or upgrade virtual server.

---

Virtual Server Configuration

Use these links to install Windows SharePoint Services on a new virtual server, configure settings across all sites on a virtual server, or create a new top-level Web site.

- Extend or upgrade virtual server
- Create a top-level Web site
- Delete site collection
- Configure virtual server settings

Be sure to go to the complete list.

Virtual Server List

To perform administration tasks for a virtual server, click the virtual server name.

<table>
<thead>
<tr>
<th>Name</th>
<th>URL</th>
<th>Version</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default Web Site</td>
<td><a href="http://genus/">http://genus/</a></td>
<td>5.0.2.6738</td>
<td>Upgrade</td>
</tr>
<tr>
<td>Microsoft SharePoint Admin</td>
<td><a href="http://genus:6045/">http://genus:6045/</a></td>
<td>Not Installed</td>
<td>Not Administrable</td>
</tr>
<tr>
<td>SharePoint Site</td>
<td><a href="http://genus:6081/">http://genus:6081/</a></td>
<td>Not Installed</td>
<td>Extend</td>
</tr>
<tr>
<td>Virtual Server</td>
<td><a href="http://genus:1024/">http://genus:1024/</a></td>
<td>Not Installed</td>
<td>Extend</td>
</tr>
</tbody>
</table>
Now, click on the **SharePoint Site item**. (Do not extend the Default Web Site!)

On the **Extend Virtual Server** page, in the **Provisioning Options** section, click **Extend and create a content database**.

On the **Extend and Create Content Database** page, first choose to **Use an existing application pool**. Then select the **StsAppPool**.
Type in an account with local administrator credentials as **Site Owner**.

Type in an **email address** for support (may be fictitious).

In the **Database Information** section, choose **not** to **Use default content database server**.

Type the name of the SQL Server 2005 instance which should store the content database for this site. If the local default instance is intended, this is just the name of your workstation.

Type **stscontent** as **Database name**.

In the **Security Configuration** section, choose **NTLM**.

Now, confirm all settings on the **Extend and Create Content Database** page by clicking **OK**.
Wait for the configuration to be applied. This can be a couple of minutes!

Please wait while your changes are processed.

This is the expected message.

The virtual server was successfully extended and a new, empty Web site has been created with the URL specified below. To view the Web site in a new browser window, click the URL. To return to the Virtual Server Settings page, click "OK".


Click OK.
Verify Data Access Credentials
Now, after both the SharePoint configuration database and at least one SharePoint content database have been created, we can verify the configuration of data access credentials.

Open the **Microsoft SQL Server Management Studio**, and connect to the (local) SQL Server 2005 instance which is storing the SharePoint administration and content databases.

Right-click **Security -> Logins -> apstsadmin**, and choose **Properties**.

Verify that **apstsadmin** is the **db_owner** of both **stsadmin** and **stscontent**, as expected.
Note that a SQL Server login for the apsts account has been created automatically during the previous configuration steps.

Verify that also apsts is db_owner of both stsadmin and stcontent.
Verify the SharePoint Site

Final step is to verify the SharePoint Site.

In **IIS Manager** snap-in, right-click **SharePoint Site** and click **Browse**.

Select a template; let's say for a Team Site.

Template Selection

Select a template to apply to this Web site. Each template includes Web pages, Web Parts, lists, libraries, and other items. Choose the template that most closely matches the type of site you want to create or click here for information on how to migrate an existing site.

Select a Template

This template creates a site for teams to create, organize, and share information quickly and easily. It includes a Document Library, and basic lists such as Announcements, Events, Contacts, and Quick Links.

Examine the functionality of the SharePoint Site.

Team Web Site

Home

Announcements

Get Started with Windows SharePoint Services1 by Michael Schmitt
2/23/2006 6:59 PM
Windows SharePoint Services lets you share information and files easily with others. Learn about your new site by reading What's New in Windows SharePoint Services.

Add new announcement

Events

There are currently no upcoming events. To add a new event, click "Add new event" below.

Add new event