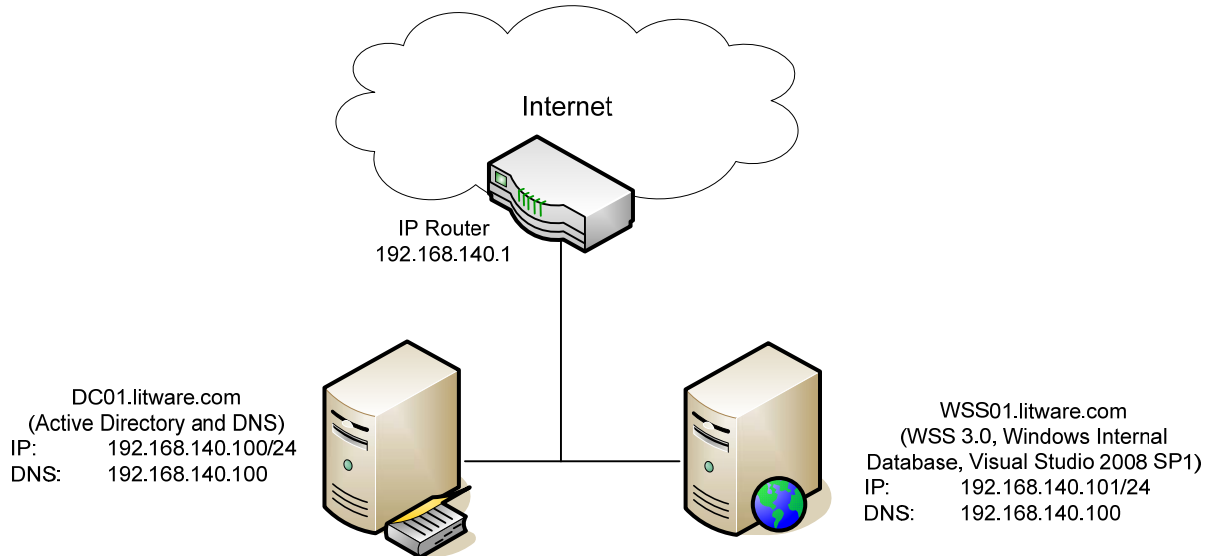


Deploying a WSS Development Environment

The following procedures describe step by step how to deploy a domain controller and a single SharePoint server running WSS 3.0 and Windows Internal Database in a development environment.



Prerequisites:

- The Evaluation Edition of Windows Server 2008 is available for download on Microsoft TechNet, at <http://www.microsoft.com/downloads/details.aspx?FamilyId=13C7300E-935C-415A-A79C-538E933D5424&displaylang=en>.
- Microsoft Windows SharePoint Services 3.0 with Service Pack 1 Redistributable Package is available for download at <http://www.microsoft.com/downloads/details.aspx?FamilyId=EF93E453-75F1-45DF-8C6F-4565E8549C2A&displaylang=en>.
- Microsoft Visual Studio 2008 - Trial Software is available for download at <http://msdn.microsoft.com/en-us/vs2008/products/cc268305.aspx>. Note that you cannot compile the source code by using Visual C++ 2008 Express because the Express version does not include ATL support.
- Microsoft Visual Studio 2008 Service Pack 1 is available for download at <http://www.microsoft.com/Downloads/details.aspx?FamilyID=27673c47-b3b5-4c67-bd99-84e525b5ce61&displaylang=en>.

To Install Windows Server 2008 on DC01 and WSS01:

1. Insert the **Windows Server 2008** CD-ROM into your CD-ROM drive and reboot the system from CD-ROM.
2. In the **Install Windows** dialog box, select the appropriate language, time and currency format, and keyboard layout, and then click **Next**.
3. In the next **Install Windows** dialog box, type your product key for activation purposes, and then click **Next**.

4. In the next **Install Windows** dialog box, select the operating system you want to install, such as **Standard Edition**, and click **Next**.
5. In the next **Install Windows** dialog box, read the licensing agreement and if you agree, select the checkbox **I accept the license terms**, and then click **Next**.
6. In the next **Install Windows** dialog box titled **Which type of installation do you want?**, click on the option **Custom (Advanced)** to install a clean copy of Windows Server 2008.
7. Another **Install Windows** dialog box is displayed informing you about existing partitions. Ensure that your test computer does not contain any important data, use the **Drive options (advanced)** to erase the existing partition scheme, and then configure a partition with at least 24 Gigabytes (GB) of disk space. Click **Next**.
8. Windows Server 2008 is now copying files, installing features, and completing the installation. Following the successful installation and system restart, Windows Server 2008 displays a welcome message stating that the user's password must be changed before logging on the first time. Click **OK**.
9. For the Administrator account, type a strong password, confirm the password, and then click on the arrow button to continue.
10. In the system message informing you that **Your password has been changed**, click **OK** to log on as Administrator.
11. In the **Initial Configuration Tasks** window that appears automatically, click on the **Configure networking** link.
12. In the **Network Connections** window, double-click on **Local Area Connections**.
13. In the **Local Area Connection Status** window, click on **Properties**.
14. In the **Local Area connection Properties** dialog box, deselect the **Internet Protocol Version 6 (TCP/IPv6)** checkbox.
15. In the **Local Area connection Properties** dialog box, select **Internet Protocol Version 4 (TCP/IPv4)**, and then click on **Properties**.
16. In the **Internet Protocol Version 4 (TCP/IPv4) Properties** dialog box, Selection the option **Use the following IP address** and enter the following IP address information:

	DC01	WSS01
IP address	192.168.140.100	192.168.140.101
Subnet mask	255.255.255.0	255.255.255.0
Default gateway	192.168.140.1	192.168.140.1

17. Select the option **Use the following DNS server addresses**, and then in the **Preferred DNS Server** field, specify the IP address **192.168.140.100**.
18. Click **OK**, then **Close**, and then **Close** again to close all dialog boxes. Also close the **Network Connections** window.
19. In the **Initial Configuration Tasks** window, click on the **Provide computer name and domain** link.
20. In the **System Properties** dialog box, click on **Change**.

21. In the **Computer Name/Domain Changes** dialog box, under **Computer name**, type **DC01** or **WSS01** depending on the computer you are installing.
22. Leave the computer in the workgroup **WORKGROUP** and click **OK**.
23. In the **Computer Name/Domain Changes** dialog box informing you that **You must restart your computer to apply these changes**, click **OK**.
24. Click **Close** and then click **Restart Now** to restart Windows Server 2008.

To Promote DC01 to a Domain Controller:

1. Restart DC01 and log on by using the Administrator account.
2. In the **Initial Configuration Tasks** window that appears automatically, click on the **Add roles** link.
3. On the **Before you Begin** wizard page, click **Next**.
4. On the **Select Server Roles** wizard page, select the checkbox **Active Directory Domain Services**, and then click **Next**.
5. On the **Active Directory Domain Services** wizard page, click **Next**.
6. On the **Confirm Installation Selections** wizard page, click **Install**.
7. Verify that the installation completes successfully, and then on the **Installation Results** wizard page, click on the **Close this wizard and launch the Active Directory Domain Services Installation Wizard (dcpromo.exe)** link.
8. In the **Welcome to the Active Directory Domain Services Installation Wizard** dialog box, click **Next**.
9. In the **Operating System Security** dialog box, click **Next**.
10. In the **Choose a Deployment Configuration** dialog box, select **Create a new domain in a new forest**, and then click **Next**.
11. In the **Name the Forest Root Domain** dialog box, under **FQDN of the forest root domain**, type **litware.com**, and then click **Next**.
12. In the **Set Forest Functional Level** dialog box, under **Forest functional level**, select **Windows Server 2008**, and then click **Next**.
13. In the **Additional Domain Controller Options** dialog box, verify that the checkbox **DNS server** is selected, and then click **Next**.
14. If a **Static IP assignment** dialog box appears informing you that the IPv6 configuration uses a dynamic address assignment, click on **Yes, the computer will use a dynamically assigned IP address (not recommended)**.
15. If an **Active Directory Domain Services Installation Wizard** dialog box appears informing you that a delegation for this DNS server cannot be created, click **Yes** to continue.
16. In the **Location for Database, Log Files, and SYSVOL** dialog box, accept the default settings and click **Next**.
17. In the **Directory Services Restore mode Administrator Password** dialog box, under **Password** and **Confirm Password**, type a secure password, and then click **Next**.
18. In the **Summary** dialog box, click **Next** to complete the Active Directory installation process.
19. In the **Completing the Active Directory Domain Services Installation Wizard** dialog box, click **Finish**.
20. In the **Active Directory Domain Services Installation Wizard** dialog box, click **Restart Now**.

To create Administrator and Security Accounts for SharePoint:

1. Log on to DC01 as domain administrator (LITWARE\Administrator).
2. Click the **Start** button, click on **Administrative Tools**, and then click **Active Directory Users and Computers**.
3. Expand **litware.com**, right-click on the **Users** container, point to **New**, and then click **User**. Create the following user accounts:

First name	SP	SP	SP
Last name	Admin	ConfigAdmin	DefaultSite
User logon name	SPAdmin	SPConfigAdmin	SPDefaultSite
Password and Confirm Password	Enter a secure password.	Enter a secure password.	Enter a secure password.
User must change password at next logon	deselect	deselect	deselect

4. Close Active Directory Users and Computers.

To add WSS01 as a Domain Member:

1. Restart WSS01 and log on by using the Administrator account.
2. In the **Initial Configuration Tasks** window that appears automatically, click on the **Provide computer name and domain** link.
3. In the **System Properties** dialog box, click on the **Change** button.
4. In the **Computer Name/Domain Changes** dialog box, under **Member of**, select the **Domain** Option, and then in the associated textbox, type **litware.com**. Click **OK**.
5. In the **Windows Security** dialog box that appears, type **Administrator** and specify the corresponding password of the domain account, and then click **OK**.
6. In the **Computer Name/Domain Changes** dialog box welcoming you to the Litware domain, click **OK**.
7. In the **Computer Name/Domain Changes** dialog box, informing you that you must restart the computer, click **OK**.
8. Click **Close** and then click **Restart Now**.

To install .NET Framework 3.0 on WSS01:

1. Log on to WSS01 as LITWARE\Administrator,
2. Click **Start**, point to **Administrative Tools**, and then click **Server Manager**.
3. In **Server Manager**, on the **Action** menu, click **Add features**.

4. On the **Select Features** wizard page, under **Features**, select the **.NET Framework 3.0 Features** check box, and in the **Add Features Wizard** dialog box, informing you that you must also install required role services and features, click **Add Required Role Services**.
5. On the **Select Features** wizard page, click **Next**.
6. On the **Web Server (IIS)** wizard page, click **Next**.
7. On the **Select Role Services** wizard page, click **Next**.
8. On the **Confirm Installation Selections** wizard page, click **Install**.
9. On the **Installation Results** page, verify that all components are installed successfully, and then click **Close**.

To install Microsoft Visual Studio 2008 with Service Pack 1:

1. Logged on to WSS01 as LITWARE\Administrator, insert the Visual Studio installation CD into the CD/DVD drive and then in the **Visual Studio 2008 Setup** dialog box that appears automatically, click **Install Visual Studio 2008**. (If setup doesn't start automatically, double-click *autorun.exe* in the root folder of the DVD.)
2. In the **Welcome to Setup** dialog box, click **Next**.
3. On the license terms page, select **I have read and accept the license terms**, and then click **Next**.
4. On the installation options page, select **Custom**, and click **Next**.
5. On the features to install page, expand the **Visual C++** node and select **X64 Compilers and Tools**.
6. Clear the checkboxes Microsoft SQL Server 2005 Express, Crystal Reports Basic for Visual Studio 2008, and Crystal Reports Basic 64-Bit Runtime for Visual Studio 2008.
7. Click **Install**, and then on the **Setup Complete** page, click **Finish**.
8. In the **Welcome to Setup** dialog box, click **Exit**.
9. Insert the Visual Studio 2008 Service Pack 1 CD into the CD/DVD drive and then in the **Software Update Microsoft Visual Studio 2008 SP1 Installation Wizard** dialog box that appears automatically, click **Next**. (If setup doesn't start automatically, double-click *SPInstaller.exe* file in the *vs90sp1* folder of the DVD.)
10. On the license terms page, select **I have read and accept the license terms**, and then click **Next**.
11. In the final Software Update Microsoft Visual Studio 2008 SP1 Installation Wizard dialog box, click **Finish**.

To install WSS 3.0 with SP1 on WSS01:

1. On WSS01, logged on as LITWARE\Administrator, download the Microsoft Windows SharePoint Services Version 3.0 Redistributable Package (**SharePoint.exe**) and double-click on the file to start the installation.
2. On the **Read the Microsoft Software License Terms** page, select the **I accept the terms of this agreement** check box, and then click **Continue**.
3. On the **Choose the Installation You Want** page, click **Advanced**.
4. Verify that **Stand-alone – Install all components on a single machine (includes Windows Internal Database) – Cannot add servers to create a SharePoint farm** is selected, and then click on **Install Now**.

5. In the final dialog box, ensure that the check box **Run the SharePoint Products and Technologies Configuration Wizard now** is selected, and then click **Close**.
6. On the **Welcome to SharePoint Products and Technologies** page, click **Next**.
7. In the **SharePoint Products and Technologies Configuration Wizard** dialog box that notifies you that some services might need to be restarted, click **Yes**.
8. The **SharePoint Products and Technologies Configuration Wizard** is now configuring WSS 3.0.
9. On the **Configuration Successful** page, click **Finish**.
10. Verify that the default SharePoint site opens successfully in Internet Explorer. In the **Connect to WSS01** dialog box, enter **LITWARE\Administrator** as the **User name** and the corresponding **Password** to log on.
11. In the **Internet Explorer** dialog box, informing you that the site is being blocked by enhanced security, click **Close**.
12. In the **Microsoft Phishing Filter** dialog box, select **Ask me later**, and then click **OK**.
13. In Internet Explorer, open the **Tools** menu and click on **Internet Options**.
14. Switch to the **Security** tab, select **Local Intranet**, and then click **Sites**.
15. Verify that **http://wss01** is specified in the **Add this website to the zone** box, then click **Add**.
16. Click **Close** and then click **OK**.
17. Close Internet Explorer.