



# Windows Server Update Services (WSUS)

## Step-by-Step Guide to Getting Started with Microsoft Windows Server Update Services 3.0

#### **Pre-Requisites**

- 1. To install WSUS 3.0 on Windows Server 2008, you must have the following installed on your computer. If any of these updates require restarting the server when installation is completed, you should restart your server before installing WSUS 3.0.
  - a. Microsoft Internet Information Services (IIS) 7.0. Ensure that the following components are enabled:
  - b. Windows Authentication
  - c. ASP.NET
  - d. 6.0 Management Compatibility
  - e. IIS Metabase Compatibility
  - f. Microsoft Report Viewer Redistributable 2005. To download this software, go to the Download Center (<u>http://go.microsoft.com/fwlink/?LinkID=70410</u>).
  - g. Microsoft SQL Server™ 2005 Service Pack 1. To download this software, go to the Download Center (<u>http://go.microsoft.com/fwlink/?LinkID=66143</u>).
  - h. The .NET Framework 2.0 and BITS 2.0 update are available on Windows Server 2008 as part of the operating system.
- 2. To install WSUS 3.0, the file system of the server must meet the following requirements
  - a. Both the system partition and the partition on which you install WSUS 3.0 must be formatted with the NTFS file system.
  - b. A minimum of 1 GB of free space is recommended for the system partition.
  - c. A minimum of 20 GB of free space is recommended for the volume where WSUS stores content; 30 GB of free space is recommended.
  - d. A minimum of 2 GB of free space is recommended on the volume where WSUS Setup installs Windows® Internal Database.



### INSTALL WSUS 3.0

### Installing Prerequisites Roles

- 1. Download and install Microsoft Report Viewer 2005 Redistributable.
- 2. Open Server Manager and click the **Roles** option.
- 3. Select Add Roles.
- 4. Select Windows Server Update Services and click Next.
- 5. On the Web Services (IIS) screen click Next.

File Action View	Select Server R	bles				
🛃 Server Manager (W						
• Roles             • Paires             • Diagnostics             • Diagnostics             • Storage	Before You Begin Server Roles Confirmation Progress Results	Select one or more roles to install on this see Roles: Active Directory Certificate Services Active Directory Poderation Services Active Directory Federation Services Active Directory Lightweight Directory S Active Directory Rights Management Se Application Server DHCP Server DHCP Server File Services Print and Document Services Windows Deployment Services Windows Server (15) Windows Server	sver. Services ervices	Description: <u>Windows Server Update</u> (WSUS) allows network a to specify the Microsoft i should be installed, to or groups of computers for of updates, and to get re compliance levels of the and on the updates that installed.	Services administrators updates that eate separate different sets sports on the computers must be	
	Add Roles Wizard Add role : You cannot in Bole Services Web Sen Mana Mill Web S Ad C Web	services required for Windows S tall Windows Server Update Services unless the r er (IIS) gement Tools 5 6 Management Compatibility Server scurty splication Development smmon HTTP Features aformance	erver Update Servi required role services are als Description: Web Server (IIS) provides a manageable, and scalable \ infrastructure.	ices? o installed. a reliable. Web application	Cancel	

 On the Select Role Service screen select the additional following items and click Next. If you are prompted for additional services to be installed, click Yes.
 -Common HTTP Features

**Directory Browsing** 

#### **HTTP Errors**

-Application

ASP

CGI

-Security

#### **Basic Authentication**



-Management Tools

#### SELECT ALL CHILD ROLE SERVICES

📕 Server Manager	Add Roles Wizard		X	
File Action View	Select Role Servi	ices		
<ul> <li>Poles</li> <li>Poles</li></ul>	Before You Begin Server Roles Web Server (IIS) Role Services Confirmation Progress Results	Select the role services to install for Web Server (IIS): Role services: Web Server Common HTTP Features Static Content Directory Browsing HTTP Errors HTTP Redirection WebDAV Publishing Application Development ASP.NET ASP.NET ASP. NET Server Side Includes Server Side Includes Health and Diagnostics HTTP Logging Logging Tools Request Monitor Tracing	Description: Web Server provides support for HTML Web sites and optional support for ASP.NET, ASP, and Web server extensions. You can use the Web Server to host an internal or external Web site or to provide an environment for developers to create Web-based applications.	
		< Previous Ne	ext >InstallCancel	
•	Refresh disabled whi	le wizard in use		

7. Click **Install** to complete the wizard.



8. Click **Next** on the Welcome Wizard. The wizard will automatically download the latest version of WSUS and the install will start when the download is completed.

Add Roles Wizard	
Installation Prog	ress
Before You Begin Server Roles Web Server (IIS) Role Services Windows Server Update Services Confirmation Progress Results	The following roles, role services, or features are being installed:          Web Server (IIS)         Windows Server Update Services
	Searching for Updates

9. When prompted, agree to the licensing terms of WSUS and click Next.



10. Enter the path that WSUS will use to store the updates locally on the server and click **Next**.

Select Update Source You can specify the location from which client computers acquire updates.	
If you have a drive formatted with NTFS and at least 6 GB of free disk space, you can use it to store updates for client computers to download quickly. If you need to save disk space, clear the check box to store updates on Microsoft Update; downloads will be slower. If you choose to store updates locally, updates are not downloaded to your WSUS server until you approve them. By default, when updates are approved, they are downloaded for all languages.	
Dł\WSUS Browse	
< Back Next >	Cancel



11. On the Database Options screen, verify that **Install Windows Internal Database on this computer** is selected and click **Next**.

Database Options You can specify whe	ere to store data for Windows Server Update Services 3.0 SP2.
You can choose to hav database server.	e Windows Internal Database installed, or you can use an existing
You should install the d	atabase on an NTFS drive with a minimum of 2 GB of free disk space.
<ul> <li>Install Windows International Control of C</li></ul>	emal Database on this computer
C:\WSUS	Browse
C Use an existing dat	abase server on this computer
	V
O Using an existing data	stabase server on a remote computer (Machinename\Instancename)
)	
	< Back Next > Cancel
.2. For the Web Site Se	lection Screen, select Create a Windows Server Update Service
Web site and click	<b>Next</b> . There will be a specific port number listed, <b>WRITE THIS</b>
3 Click Next to start t	the Installation process
dd Roles Wizard	
Installation Progra	255
Before You Begin	The following roles, role services, or features are being installed:
Server Roles	Web Server (IIS)
Web Server (IIS)	Windows Server Update Services 3.0 SP2 Setup Wizard
Windows Server Update Services Confirmation	Web Site Selection You can specify which Web site to use for the Windows Server Update Services 3.0 SP2 Web services.
Results	Web site preference:
	C Use the existing IIS Default Web site (recommended)
	Create a Windows Server Update Services 3.0 SP2 Web site
	Configure your client computers to access Windows Server Update Services 3.0 SP2 at;
	http://WIN-Q1K65KRS7T8:8530
	In the WSUS Administrative Console, set Server Name as WIN-Q1K65KRS7T8, and Port as 8530.

< Back

Next >

Cancel

	<b>}</b>
OR Add Roles Wizard Installation Progr	ess
Before You Begin Server Roles Web Server (IIS) Role Services Windows Server Update Services Confirmation Progress Results	The following roles, role services, or features are being installed: Web Server (IIS) Windows Server Update Services 3.0 SP2 Setup Wizard Web Site Selection You can specify which Web site to use for the Windows Server Update Services 3.0 SP2 Web services. Web site preference: Use the existing IIS Default Web site (recommended) Create a Windows Server Update Services 3.0 SP2 Web site Configure your client computers to access Windows Server Update Services 3.0 SP2 at: http://WIN-Q1K65KRS7T8 In the WSUS Administrative Console, set Server Name as WIN-Q1K65KRS7T8, and Port as 80.
	Back Next > Cancel



- 1. On the **Before you begin** screen, click **Next**.
- 2. Uncheck the option for the Microsoft Update Improvement Program and click Next.
- 3. Select the respective upstream server for this WSUS Server and click **Next**. If you are synchronizing from another WSUS server from within your district, be sure to enter the proper port number that WSUS is running on remotely.
- 4. Click **Next** on the **Proxy Server** settings, unless these settings are required for your environment.
- 5. Click the Start Connecting button to retrieve the updated list of products that WSUS currently updates.
- 6. When the initial product file download is completed, click the **Next** button.
- 7. Verify that **English** is the selected language and click **Next**.
- 8. On the **Products** selection, choose the products that you will be updating in your environment and click **Next**.
- For the Update Classifications to download, select everything <u>except</u> Drivers and click Next.
- 10. Uncheck the Begin initial synchronization box and click Finish.
- 11. From Administrative Tools open the **Microsoft Windows Server Update Services** Management console.
- 12. In the left-hand pane, expand your WSUS Server and click **Options**. It should be at the bottom of the list.
- 13. In the Options pane, select **Update Files and Languages**. Uncheck the **Download update files to this server only when the updates are approved** and click **OK**. If you choose to manually approve updates, your workstations will not have to wait until after the next WSUS Sync with Microsoft to get the updates.
- 14. In the Options pane, select **Synchronization Schedule**.
- 15. Select **Synchronize automatically** and set this to off-peak usage hours (after school hours) and click **OK**.

#### Automatic Approvals – aka "If Microsoft puts it out, deploy it!"

- 16. In the Options pane, select **Automatic Approvals**.
- 17. Select the Default Automatic Approval Rule and click Edit.
- 18. In the Step 2 box, click on Critical Updates, Security Updates (highlighted in blue).
- 19. Select all classification items **EXCEPT** drivers and click **OK**. Some districts choose not to select Feature Packs. This includes items such as Silver Light and Desktop Search.
- 20. Verify that Default Automatic Approval Rule is checked and click Apply AND OK.

21. After the Windows Server Update Se Before You Begin Things you shoul	setup ends, the following screen will open up:
Before You Begin Microsoft Update Improvement Program Choose Upstream Server Specify Proxy Server Choose Languages Choose Products Choose Classifications Configure Sync Schedule Finished What's Next	<ul> <li>Before you begin:</li> <li>1. Is the server firewall configured to allow clients to access the server?</li> <li>2. Can this computer connect to the upstream server (such as Microsoft Update)?</li> <li>3. Do you have user credentials for the proxy server, if needed?</li> </ul>
	Options           < Back

#### 22. Click Next.

Windows Server Update S	iervices Configuration Wizard 🛛 🗙
You have the o	ption of joining the Microsoft Update Improvement Program
Before You Begin Microsoft Update Improvement Program Choose Upstream Server Specify Proxy Server Choose Languages Choose Classifications Conse Products Configure Sync Schedule Finished What's Next	Image: Regulation of the service of
	<back next=""> Einish Cancel</back>

23. Check the "I would like to join" box and click Next.



24. Choose synchronize from Microsoft update, and click next.

Connect to Upstr Download updal	am Server information from Microsoft Update	
Before You Begin Microsoft Update Improvement Program Choose Upstream Server Choose Languages Choose Products Choose Products Choose Classifications Configure Sync Schedule Finished What's Next	To configure Windows Server Update Services on the following screens, we not comply your upstream server and proxy server settings and synchronize information about available updates.         Information to be downloaded includes:         Types of updates available         Products that can be updated         Available languages         Click Start Connecting to save and download upstream server and proxy serve information. This process might take several minutes or longer, depending on connection speed.         Start Connecting       Stop Connecting	eed er your

25. In case you have a proxy server on your organization specify proxy settings, else leave all settings at default and click next. It is recommended to set the WSUS to work without a proxy server and allow it a direct connection to the internet (open the appropriate ports on the FW).

🔄 Windows Server Update Se	rvices Configuration Wizard 🛛 🗙
Specify Proxy Serv Provide proxy serv	ver
Before You Begin Microsoft Update Improvement Program Choose Upstream Server Choose Products Choose Classifications Configure Sync Schedule Finished What's Next	If this server requires a proxy server to access the upstream server, you can onligure the proxy server settings here.         Image:



26. In the "connect to upstream server" page, click start connecting. After the server has finished the initial sync, the next button will be available. Click next.

efore You Begin icrosoft Update Improvement rogram	1	If you are storing update files locally, your server by language. Choosing in computers can be updated on this ser more information see Specify the upd	you can filter the updates o dividual languages will affec rver and any downstream se late languages you want to a	downloaded to t which rvers. For synchronize.
noose Upstream Server ipecify Proxy Server thoose Languages thoose Products		Download updates in all languages     Download updates only in these la	s, including new languages	
Choose Classifications Configure Sync Schedule inished What's Next		<ul> <li>Arabic</li> <li>Bulgarian</li> <li>Chinese (Hong Kong S.A.R.)</li> <li>Chinese (Simplified)</li> <li>Chinese (Traditional)</li> <li>Croatian</li> <li>Czech</li> <li>Danish</li> <li>Dutch</li> <li>English</li> <li>Estonian</li> <li>French</li> <li>German</li> <li>Greek</li> </ul>	Hindi     Hungarian     Italian     Japanese     Japanese (NEC)     Korean     Latvian     Lithuanian     Norwegian     Polish     Portuguese     Portuguese (Brazil)     Romanian     Russian     Serbian (Latin)	Sio   Sp.   Sw.   Th.   Uk
		4		)

27. In the choose language window, choose English and Hebrew (or any other language of your choice) and click next.

Choose Products Select the Micro	soft products to be updated	
Before You Begin Aicrosoft Update Improvement Program	You can specify the products for which you want updates. <u>Products:</u>	
Specify Proxy Server Choose Languages Choose Products Choose Classifications Configure Sync Schedule Finished What's Next	Microsoft     Gompute Cluster Pack     Gompute Cluster Pack     Gempute Cluster Pack     Ge	
	All classifications, including classifications that are added in the future.	

**/** [

28. On the choose products page, check the products you wish to sync (default, windows – all version, office – all versions, Exchange – all versions). Then click next.

29. On the choose classifications page, choose all classifications and click next.



30. On the sync schedule page, choose synchronize automatically when first sync is at 12:00:00AM and the sync per day setting is set to 24. Then click next.



31. On the finished page, check both checkboxes and click finish.



#### WSUS initial configuration





#### Create the WSUS Group Policy

- 1. Open Active Directory Users & Computers.
- 2. Right click on the OU where you would like to create the policy at and click **Properties**. If you are a single site, then you can place the policy at the top of the domain. If you are separate sites, then right click on the OU under District Computers that represents the site that you are creating the install policy for.
- 3. Click on the Group Policy tab and then click on the New button.
- 4. Name the new policy **WSUS Policy**.
- 5. Double-click on the WSUS Policy to open the Group Policy Editor.
- 6. Expand Computer Configuration, Administrative Templates, Windows Components. Click on Windows Update.
- 7. In the right hand pane double click on **Configure Automatic Updates**.
- 8. Select the radio button next to **Enabled**.
- 9. In the Configure automatic updating drop-down menu, select option 4.
- 10. Set the desired scheduled install day and time.
- 11. Click the **Next Setting** button.

You should now be at the **Specify Intranet Microsoft Update Services Location** window.

- 12. Select the radio button next to **Enabled**.
- 13. In both entry boxes enter <u>http://yourservername</u> and then click **OK**.
- 14. Double-click on Reschedule Automatic Updates Scheduled Installations.
- 15. Select the radio button next to **Enabled**.
- 16. Change the minutes from 1 to 5.
- 17. Click the **Next Setting** button. You should now be at the **No auto-restart for scheduled Automatic Updates installations** window.
- 18. Select the radio button next to your desired option.
- Click the Next Setting button.
   You should now be at the Automatic Updates detection frequency window.
- 20. Select the radio button next to **Enabled**.
- 21. Set the desired interval.
- 22. Click the **Next Setting** button. You should now be at the **Allow Automatic Updates immediate installation** window.
- 23. Select the radio button next to **Enabled** and then click the **Next Setting** button.
- 24. Click **OK** to return to the Group Policy Editor.
- 25. Click **File** and then **Exit** to return to Active Directory Users & Computers.
- 26. Click **Close** at the properties window and then close the Active Directory Users & Computers