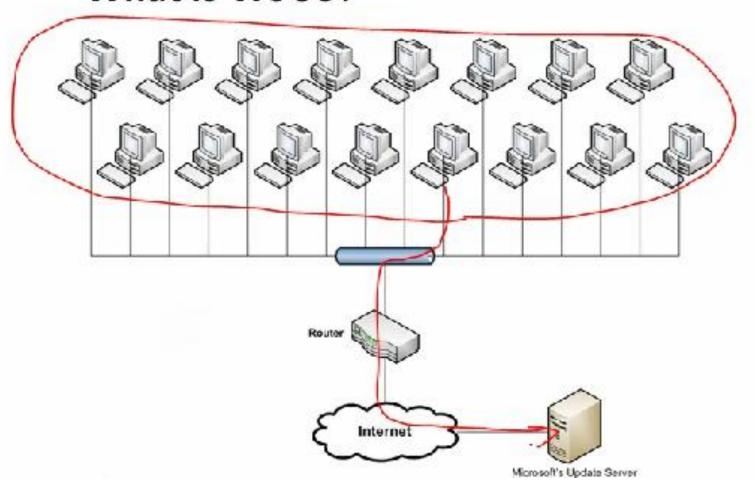
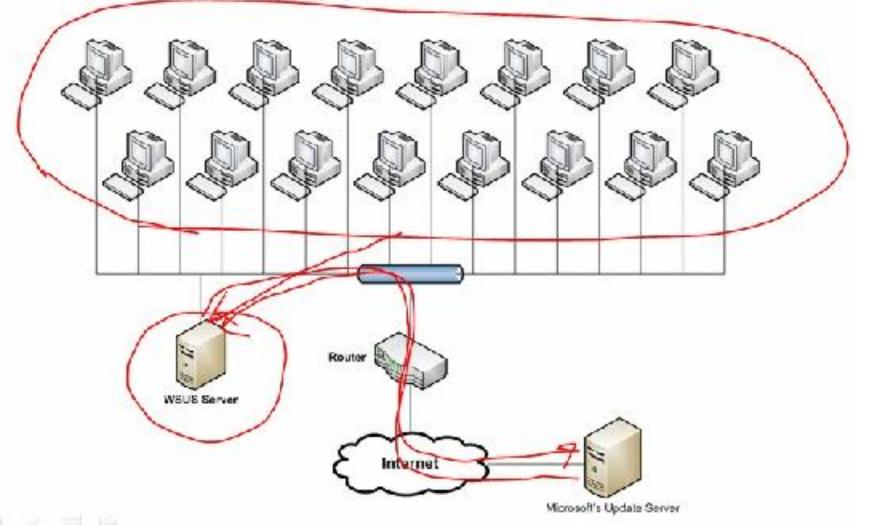
Windows Server Update Services (WSUS)

- What is WSUS?
- WSUS Scenarios
 - Single Server
 - Independent
 - Autonomous Mode
 - Replica Mode
 - Disconnected
- Downloading and Installing WSUS
- How to Configure Computer Groups
 - Server-side Targeting
 - Client-side Targeting
- Configuring Clients Using Group Policy

What is WSUS?



What is WSUS?



Why use WSUS?

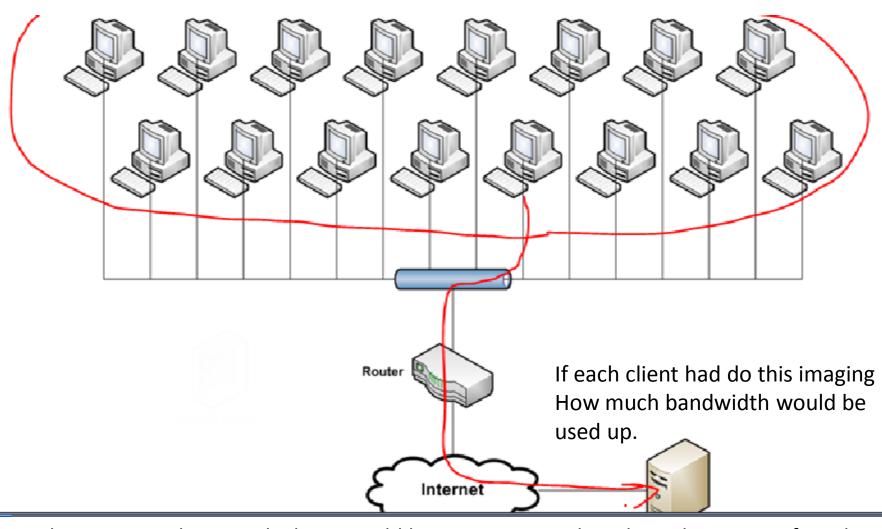
- WSUS helps save Internet bandwidth and makes more efficient use of the Microsoft Update Servers.
- WSUS gives administrators control over what updates are sent to the clients by allowing them to test and approve updates first.

Where can I get WSUS?

- WSUS is not included with Windows Server 2008
- WSUS is a free download from Microsoft
- WSUS 3.0 SP1 can be downloaded from the following links:

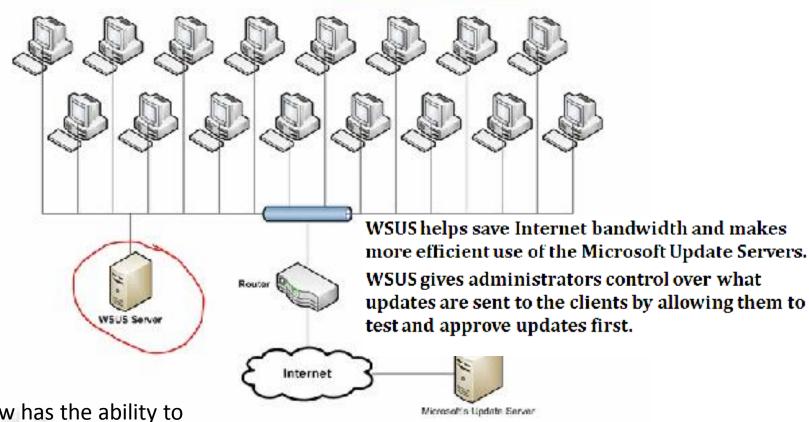
http://www.microsoft.com/wsus

http://technet.microsoft.com/en-us/wsus/default.aspx



In the scenario above each client would have to connect directly to the Microsoft update Server to query if they were any updates available. If updates were available the Microsoft Server had to download those updates to the individual machine.

WSUS Scenarios – Single Server



WSUS now has the ability to

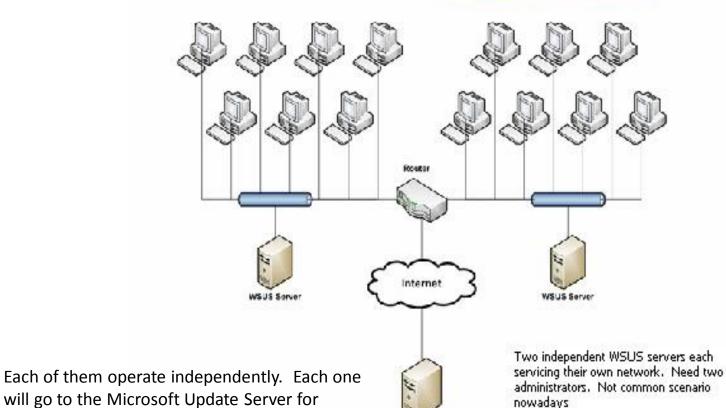
Have all the clients communicate with

the WSUS Server for its updates. WSUS will go to the Microsoft update site for all its updates and the updates will be downloaded to the WSUS Server. All the clients will now communicate with the WSUS Server for updates.

Where can I get WSUS?

- WSUS is not included with Windows Server 2008
- WSUS is a free download from Microsoft

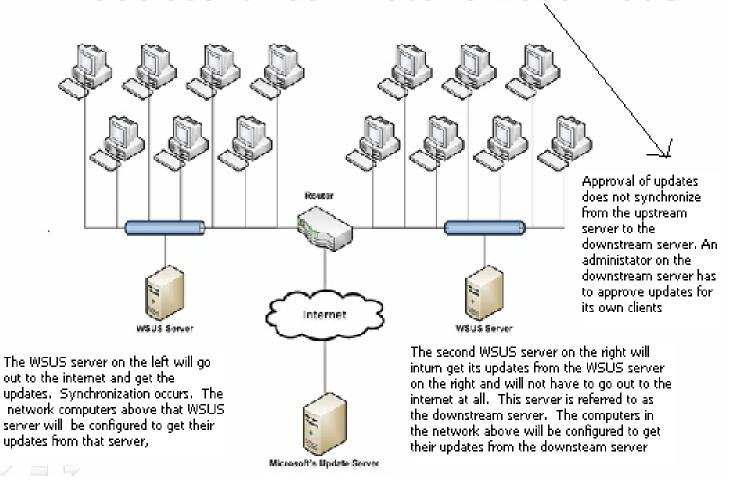
WSUS Scenarios – Independent



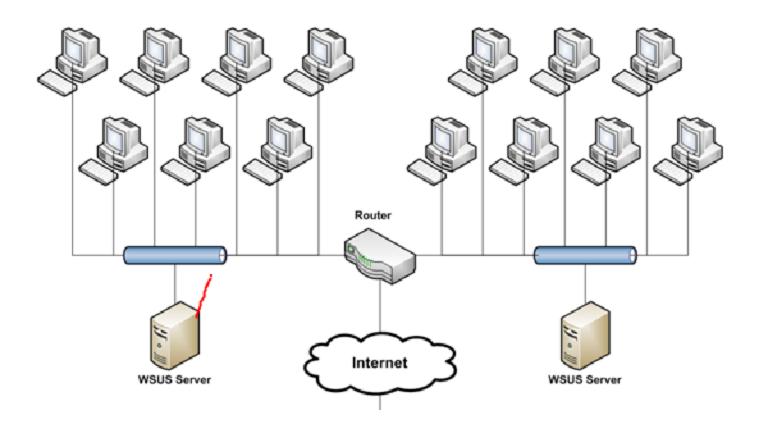
will go to the Microsoft Update Server for updates. There is no replication or synchronization of any kind between the Servers.

Therefore you will need two administrator, one for each WSUS Server

WSUS Scenarios – Autonomous Mode

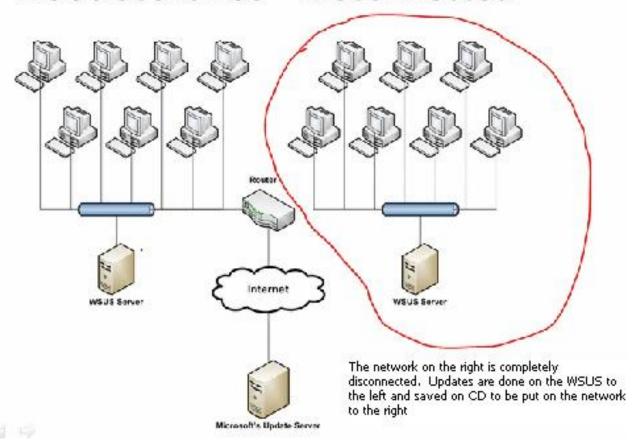


WSUS Scenarios – Replica Mode



This mode is exactly the same as the autonomous mode with one exception. Approvals are not done by the second WSUS server as in the Autonomous mode but are replicated over. So you really need only one Administrator.

WSUS Scenarios - Disconnected



Download WSUS 3.0 SP1

Install WSUS

Configure WSUS

Software

Configure Computer Groups

Configure Clients

WSUS server software requirements

The server must also be running all of the following application software:

At least Internet Information Services (IIS) 6.0 (WSUS IS ALL WEB BASED)

At least Microsoft® .NET Framework 2.0

At least Microsoft Management Console 3.0

At least Microsoft Report Viewer Redistributable 2008

Windows Server 2008 R2 requires WSUS 3.0 SP2. If you install Windows Server 2008 R2 you should install WSUS 3.0 SP2. Do not install any version of WSUS earlier than WSUS 3.0 SP2 on Windows Server 2008 R2



🍇 Windows Server Update Services 3.0 Setup Wizard



Installation Mode Selection



What kind of installation would you like to perform for Windows Server Update Services?

- Full server installation including Administration Console
- C Administration Console only

Windows Server Update Services 3.0 Setup Wizard

×

License Agreement

To install Windows Server Update Services 3.0, you must accept the terms of the end user license agreement.



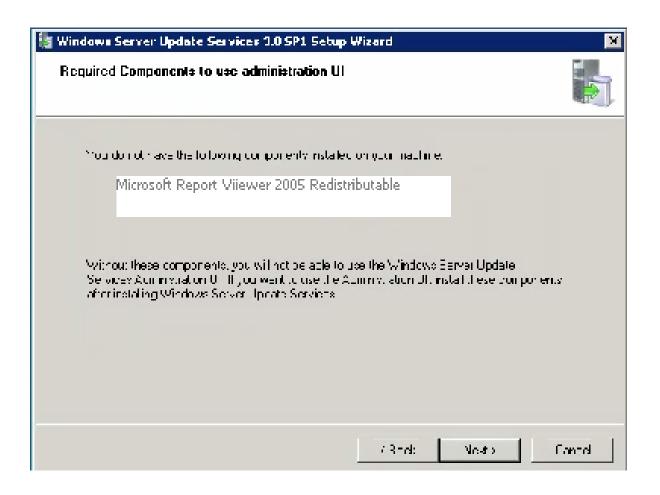
Please read the following agreement carefully. Use the scroll bar or press the PAGE DOWN key to view the rest of the text. To print the text, click Print.

WINDOWS SERVER UPDATE SERVICES 3.0

PLEASE NOTE: Microsoft Corporation (or based on where you live, one of its affiliates) licenses this supplement to you. You may use it with each validly licensed copy of Microsoft Windows Server software (for which this supplement is applicable) (the "software"). You may not use the supplement if you do not have a license for

- I accept the terms of the License agreement
- C I do not accept the terms of the License agreement

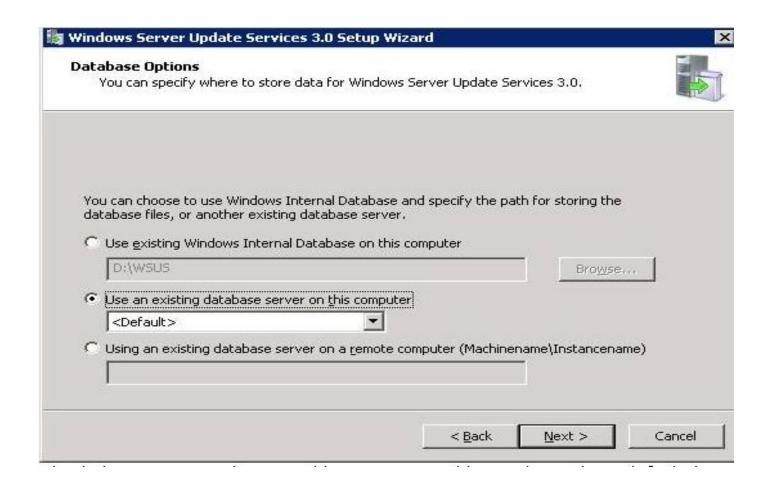
Print...



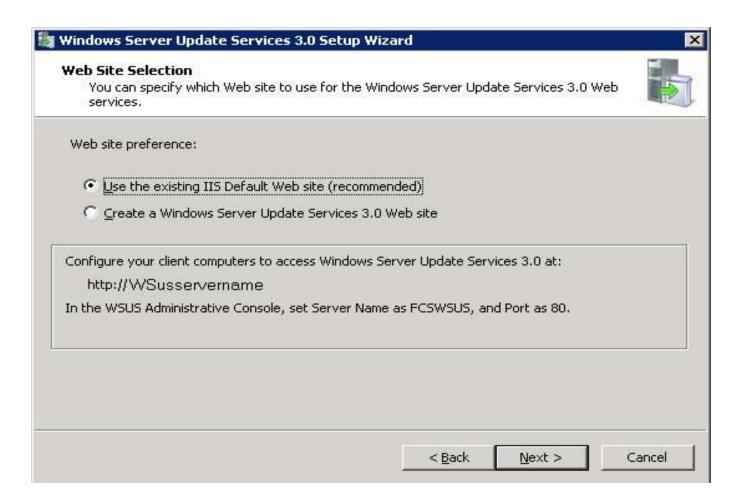
Microsoft viewer 2005 Redistributable – only required if you are going to do reporting. Please note that 2008 Redistributable is required to Server 2008R2



You need to select an update source. The checked box allows you to store updates locally. You can have a separate drive or a separate partition based upon your scenario. If you do not want to store updates locally you can uncheck the box. Maybe you don't have enough space or you don't want to tie up the space. If you uncheck the box then the updates are going to be stored on Microsoft's Update Server.



Here you can use Microsoft's internal Database or Sequel Server to keep Track of all this information. You don't have to have a database installed you Can use Microsoft's internal database



WSUS is web based so you will need to use a website. The default Website is recommended unless you are using a web server which already Has a website in use. In this case you should click the second option to create a Windows Update services website



🛐 Windows Server Update Services 3.0 Setup Wizard



WaldSite SaltelieWindows Server Update Services 3.0

You can specify which Web site to use for the Windows Server Update Services 3.0 Web services.



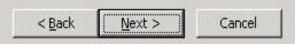
Windows Server Update Services 3.0 is ready to be installed with the following configuration:

- Content folder: D:\WSUS\WsusContent
- Database files: D:\WSUS
- Client self update site: http://iWSUS/selfupdate

The following components will be installed along with Windows Server Update Services 3.0:

- Windows Internal Database

To install, click Next. To review or change settings, click Back.



Windows Server Update Services 3.0

Installing...

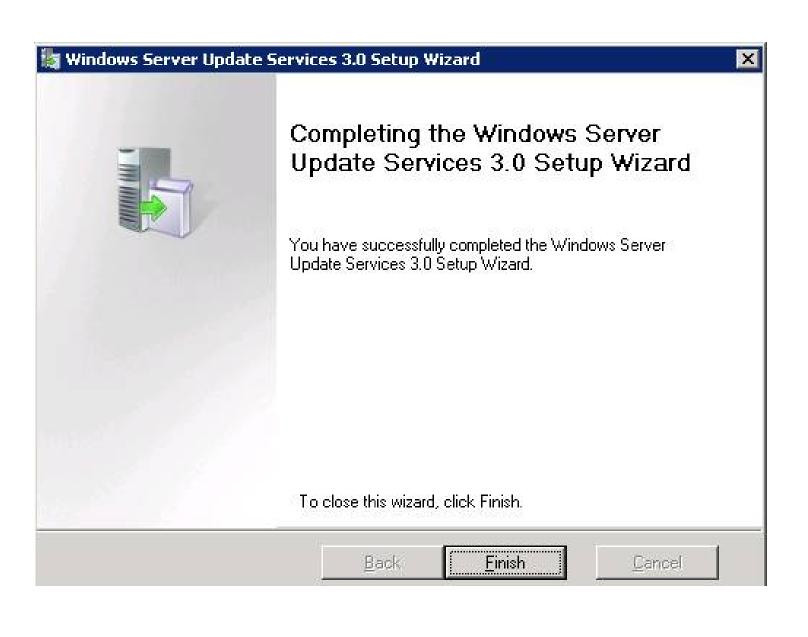


Please wait while the Setup Wizard installs. This may take several minutes.

Configuring ASP.NET Status:

Setup is working. Please wait...

Cancel





Before You Begin

Things you should do before starting this wizard

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



Before you begin:

- 1. Is the server firewall configured to allow clients to access the server?
- Can this computer connect to the upstream server (such as Microsoft Update)?
- 3. Do you have user credentials for the proxy server, if needed?

To run this wizard again, launch the WSUS Administration Snap-in and go to Options

< Back Next > Enish Cancel



Join the Microsoft Update Improvement Program

You have the option of joining the Microsoft Update Improvement Program

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



Help us design the next version of Windows Server Update Services. Improve the quality, reliability, and performance of Microsoft Software.

When you opt into the Microsoft Update Improvement Program, your WSUS server will send information to Microsoft about the quality of updates. This information includes:

How many computers are in the organization.

How many computers successfully installed each update.

How many computers failed to install each update.

This information is used to increase the gradity and solichility of the

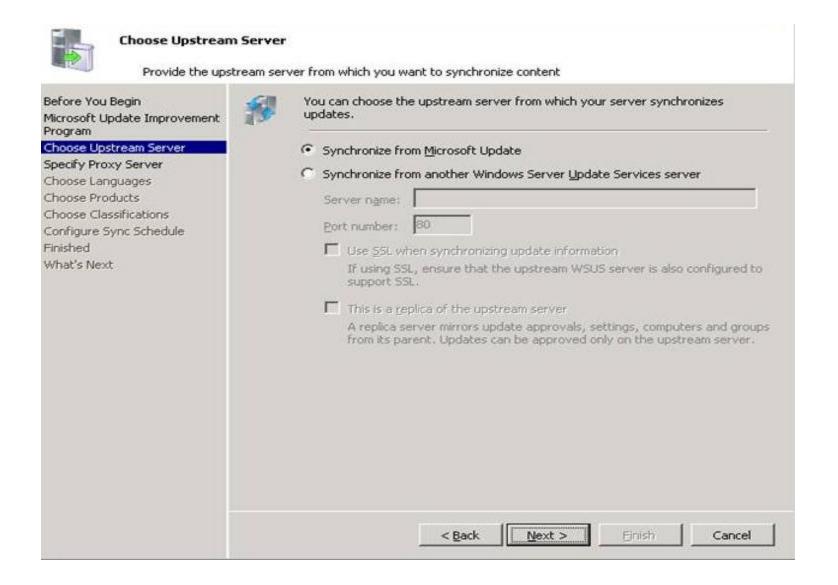
This information is used to improve the quality and reliability of the updates Microsoft provides.

None of the information collected is used to identify or contact you or your organization.

Privacy Statement

Yes, I would like to join the Microsoft Update Improvement Program

< <u>Back</u> <u>Next</u> > <u>Einish</u> Cancel



The main server will synchronize from Microsoft update server, but when we are configuring the downstream server we will use the second option. The name of the server will then be this server.

Windows Server Update Services Configuration Wizard





Specify Proxy Server

Provide proxy server settings for synchronizing updates with Microsoft Update

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

Use a proxy server	when synchron	nizing		
Proxy server name:				
Port number:	80			
☐ Use user crede	ntials to conner	t to the praxy	server	
User name:				
<u>D</u> omain:				
Password:				
☐ Allow basic	authentication	(password is s	ent in cleartex	t)



Connect to Upstream Server

Download update information from Microsoft Update

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



To configure Windows Server Update Services on the following screens, we need to apply 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 server information. This process might take several minutes or longer, depending on your connection speed.

Next >

Finish

Cancel

Start Connecting Stop Connecting

< Back



Select the languages for which this server will download updates

Before You Begin Microsoft Update Improvement Program Choose Upstream Server Specify Proxy Server

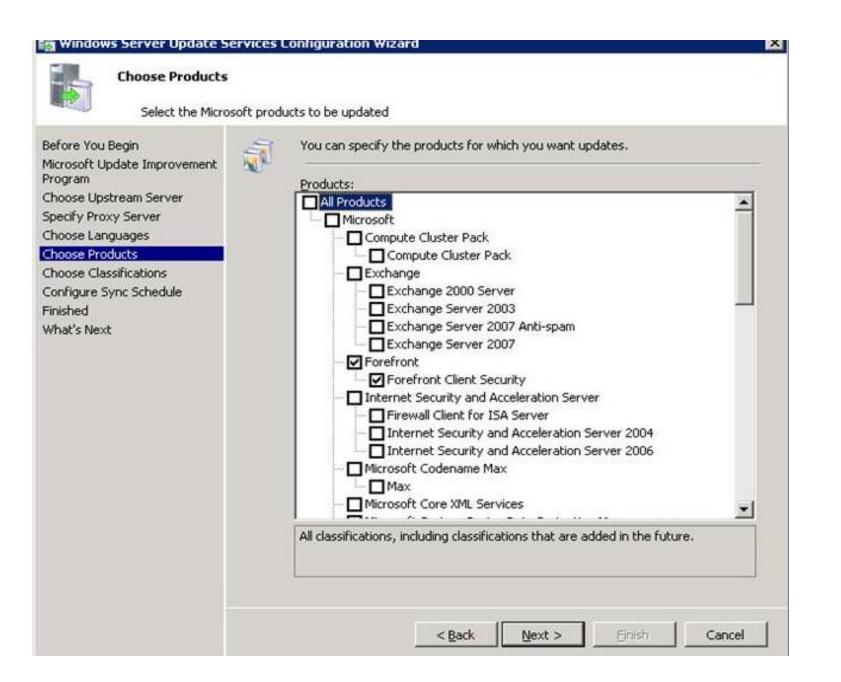
Choose Languages

Choose Products
Choose Classifications
Configure Sync Schedule
Finished
What's Next



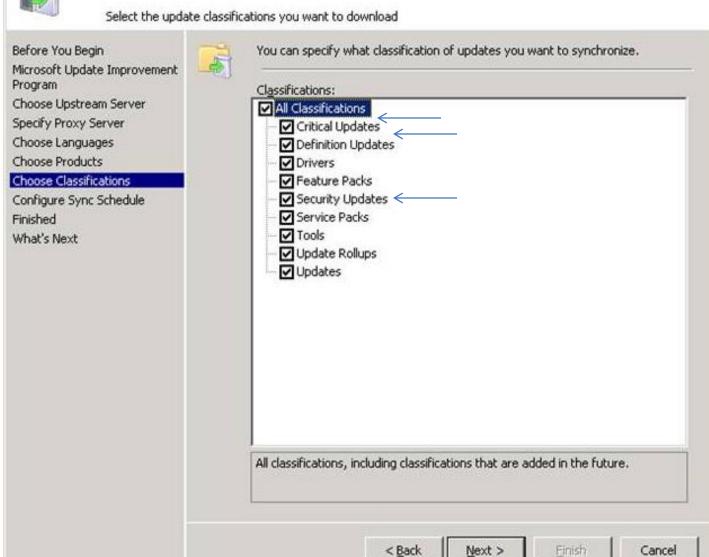
If you are storing update files locally, you can filter the updates downloaded to your server by language. Choosing individual languages will affect which computers can be updated on this server and any downstream servers. For more information see Specify the update languages you want to synchronize.

Arabic	☐ Hindi	☐ Slo
Bulgarian	☐ Hungarian	☐ Sp.
Chinese (Hong Kong S.A.R.)	☐ Italian	☐ Sw
Chinese (Simplified)	☐ Japanese	☐ Th.
Chinese (Traditional)	☐ Japanese (NEC)	☐ Tui
Croatian	☐ Korean	☐ Uki
Czech	☐ Latvian	
Danish	Lithuanian	
Dutch	□ Norwegian	
English	☐ Polish	
Estonian	☐ Portuguese	
Finnish	Portuguese (Brazil)	
French	Romanian	
German	Russian	
] Greek	Serbian (Latin)	
Hebrew	☐ Slovak	
		>





Choose Classifications







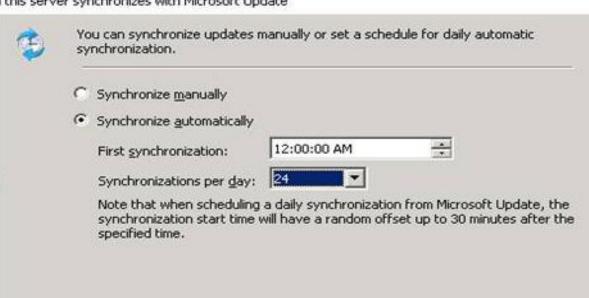
Set Sync Schedule

Configure when this server synchronizes with Microsoft Update

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







Finished

Finished initial configuration of your server

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



You have now finished configuring your WSUS server. You can go on to launch the WSUS Administration Console or start the initial synchronization.

- Launch the Windows Server Update Services Administration Console

 Get started administering your organization by starting the Windows Server
 Update Services Administration Console.
- Begin initial synchronization

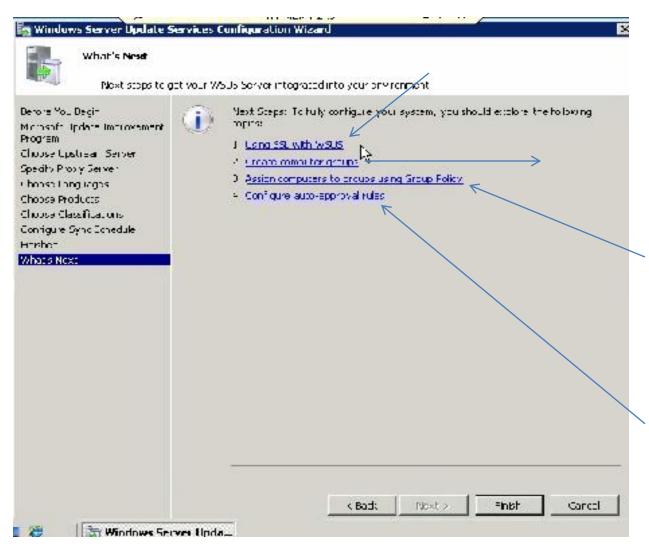
The initial synchronization with Microsoft Update or your upstream server can take some time. The length of the initial synchronization depends on the number of products, update classifications, and languages you have selected, as well as the speed of your Internet connection.

< Back

Next >

Finish

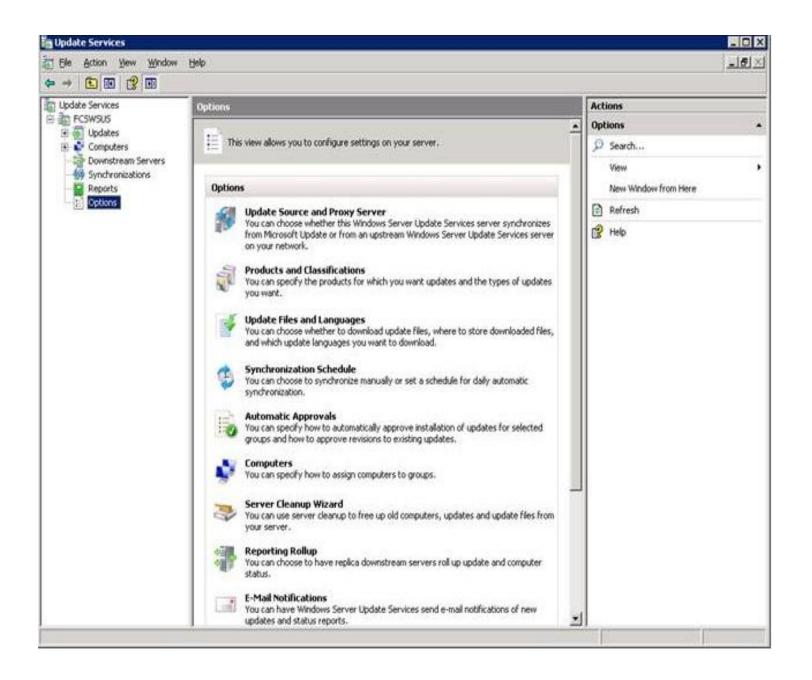
Cancel

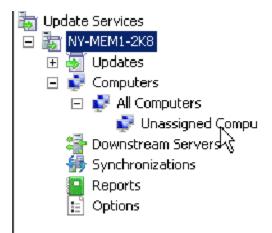


1. Use SSL because wsus is be in done on a web page

- 2. Create computer groups
- 3. Assign computers to groups

4. Set up rules For auto approval



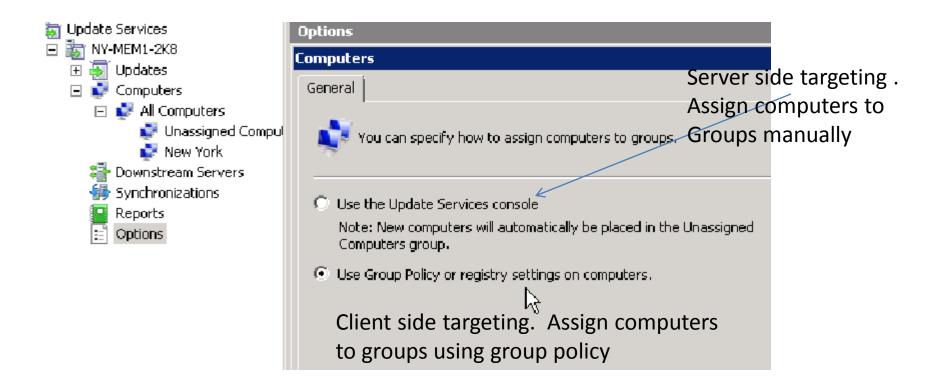


The Unassigned computer group will hold all computers pointing to The WSUS server for updates that do not belong to a computer group.

To create a computer group:

- 1. Right click on All computers
- 2. Click on Add computer group
- 3. Specify a name for the computer group
- 4. (computer groups allow us the ability to approve different updates for different computer within our organization)

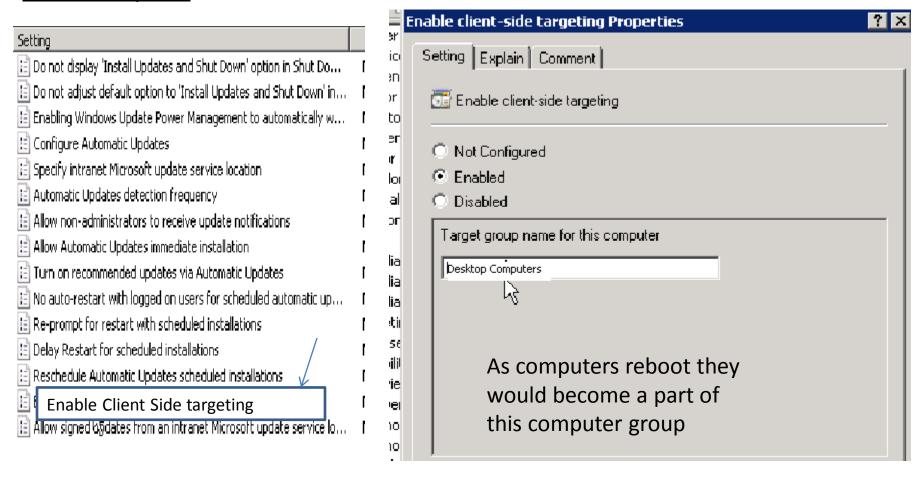
There are two ways to decide how a computer will get updates. One way is called <u>Server-side targeting</u> and the second way Is called <u>Client-side targeting</u>. You can select the any of the Two ways through **options**



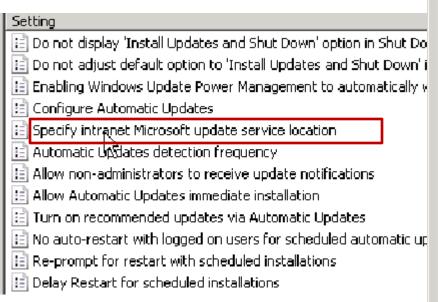
Regardless of the method used to assign client computers to groups, you must first create the groups using the WSUS console.

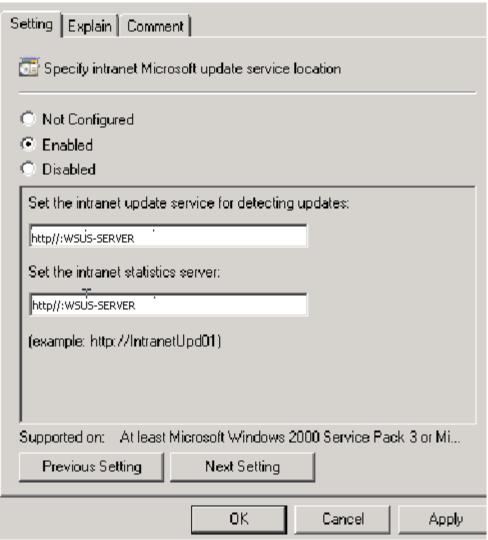
Client side targeting – Group policy settings

<u>Computer Configuration</u>: <u>Policies</u>: <u>Administrative Templates</u>: <u>Windows Component</u>: <u>Windows Update</u>

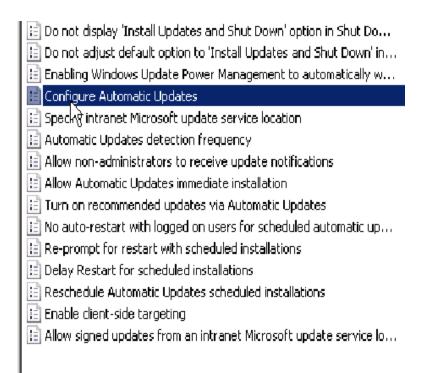


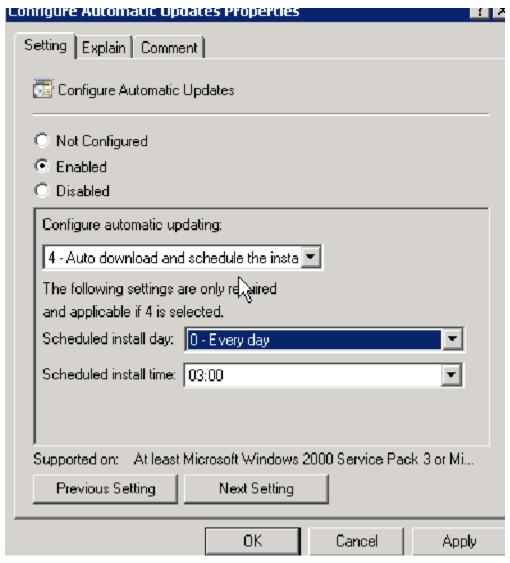
How to have the clients use WSUS for updates





HOW TO CONFIGURE UPDATES



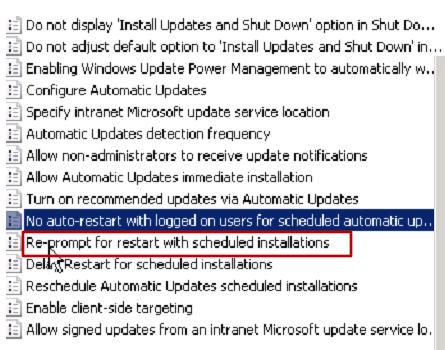


Every day at 3:00 a.m. I want these computers to download any updates that are available and Install them.

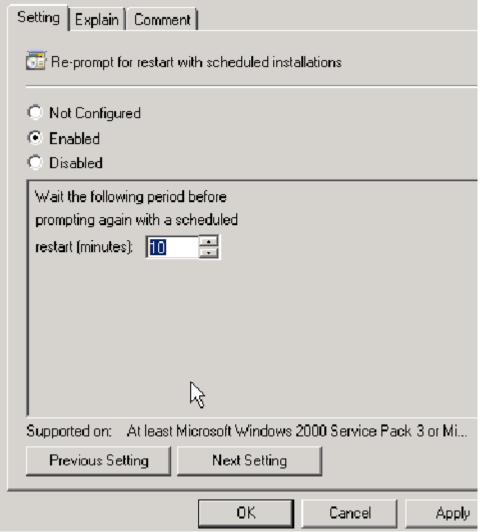
A few more Settings that are fairly common 57.09

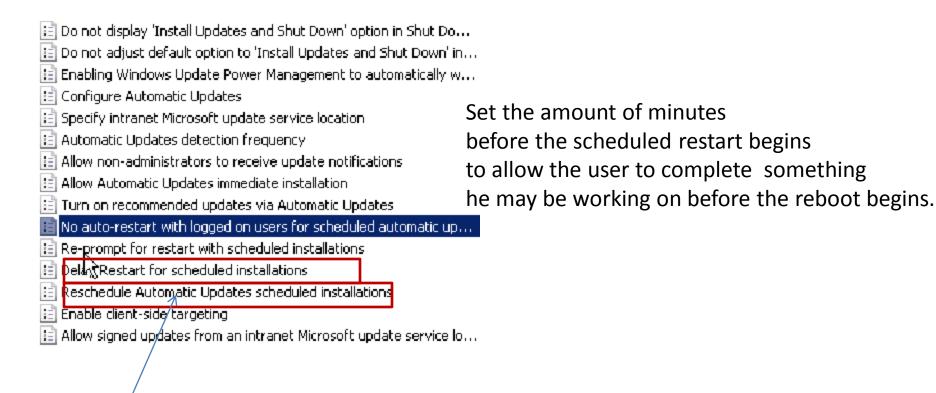
📴 Do not display 'Install Updates and Shut Down' option in Shut Do	Not configured
🔡 Do not adjust default option to 'Install Updates and Shut Down' in	Not configured
🛅 Enabling Windows Update Power Management to automatically w	Not configured
🔳 Configure Automatic Updates	Enabled
📴 Specify intranet Microsoft update service location	Enabled
🛅 Automatic Updates detection frequency	Not configured
🔡 Allow non-administrators to receive update notifications	Not configured
🔡 Allow Automatic Updates immediate installation	Not configured
Turn on recommended updates via Automatic Updates	Not configured
🛅 No autogrestart with logged on users for scheduled automatic updates installations ed	
Re-prort® for restart with scheduled installations	Not configured
🔳 Delay Restart for scheduled installations	Not configured
🔡 Reschedule Automatic Updates scheduled installations	Not configured
🛅 Enable client-side targeting	Enabled
🔝 Allow signed updates from an intranet Microsoft update service lo	Not configured

If a user is logged on the update will not do a reboot because the user might be in the middle of something and you don't want to kill that.



If some postponed the reboot, how long Do we want to wait to prompt them again to say you still need to reboot





This has to do with how long automatic updates are goingt o wait following a system startup. In other words if the system was off, when the user comes turns on the computer in the morning lots of updates will attempt to come down and you may not want that to occur the minute they turn on the computer so you may want to set the setting to wait maybe 30 minutes. That way the updates do not occur immediately when the computer is turned on

HOW TO APPROVE UPDATES

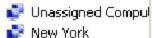
Update Services







🖃 🥵 All Computers









Options

Options

Server Update Services server on your network.



Products and Classifications

You can specify the products for which you want updates and the types of updates you want.



Update Files and Languages

You can choose whether to download update files, where to store downloaded files, and which update languages you want to download.



Synchronization Schedule

You can choose to synchronize manually or set a schedule for daily automatic synchronization.



Automatic App@yals

You can specify had to automatically approve installation of updates for selected groups and how to approve revisions to existing updates.



Computers

You can specify how to assign computers to groups.



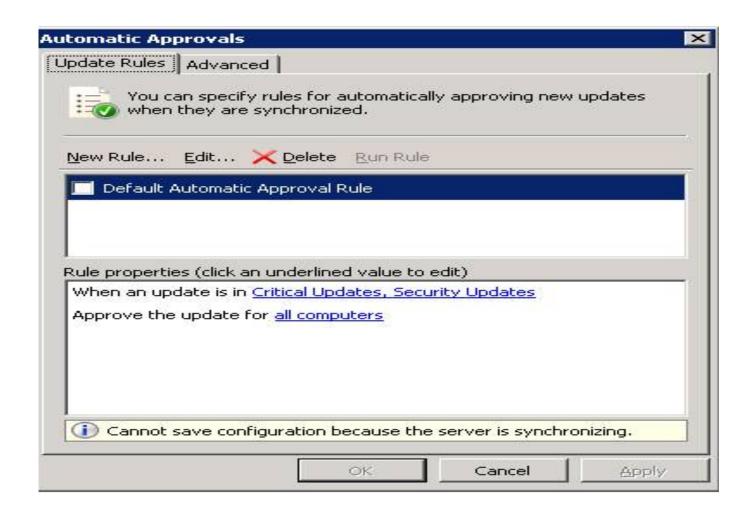
Server Cleanup Wizard

You can use server cleanup to free up old computers, updates and update files from your server.



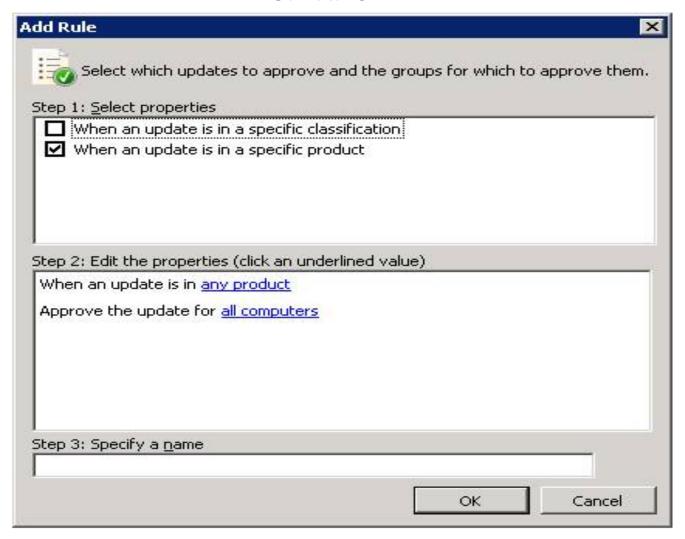
Reporting Rollup

You can choose to have replica downstream servers roll up update

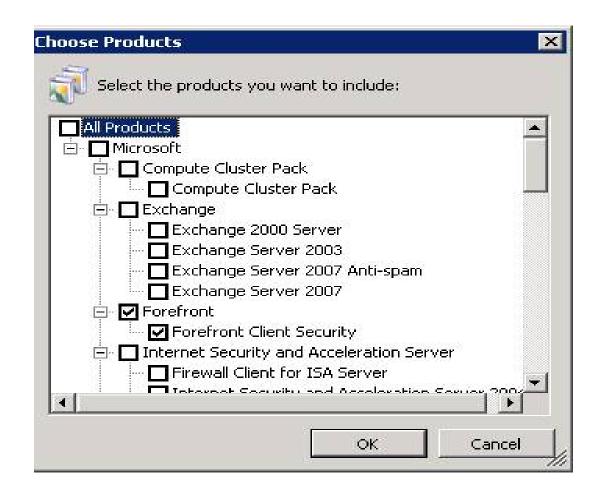


On the automatic approval window, check the default automatic approval rule (automaticly approves critical and security updates) and click new rule if you wish to add additional auto-approve rules for specific products or classifications.

UPDATES

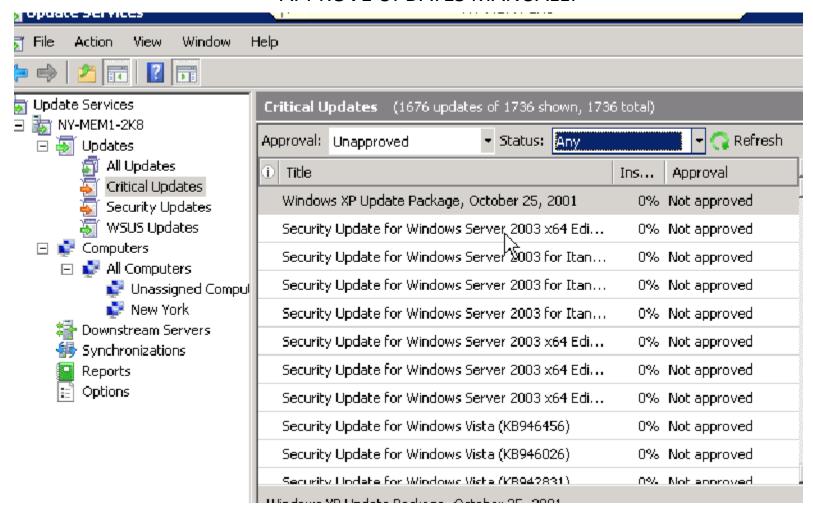


.On the add rule wizard specify any other auto approve rules that you wish by product or classification



.On the choose product window, check only forefront-forefront client security and click ok

APPROVE UPDATES MANUALLY



You can right click on one of the updates and select <u>Approve</u> or you can shift select All of the computers and select <u>Approve</u> a specific group and select <u>Approved for Install.</u>

