# How To: Windows Server Update Service

This document walks through installing Windows Server Update Service (WSUS). This feature is used to have a central update server for your network. It allows your computers and servers to update from a local server rather than all of them downloading from Microsoft servers.

The following process will be completed on a Windows Server 2016 server that is a member of our lab domain. Also, I have added a second hard disk drive to this server. It will be used to store the Windows updates as they become available.

### Add Windows Server Update Service Role



1. Click Start, Server Manager.

2. On the Server Manager window, click Add roles and features.

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	WHAT'S NEW         4         Create a server group	
	5 Connect this server to cloud services	Hide
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3. On the Before you begin dialog, click Next.

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4. On the Select installation type, click Next.

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Local S	Select installation Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select the installation type. You machine, or on an offline virtu. Role-based or feature-ba Configure a single server by Remote Desktop Services Install required role services or session-based desktop d	u can install roles and features on a running lal hard disk (VHD). sed installation y adding roles, role services, and features. s installation s for Virtual Desktop Infrastructure (VDI) to leployment.	DESTIN. er g physical comput	ATION SERVER wu01.erlab.lan ter or virtual achine-based		Hide	
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5. On the Select destination server, click Next.

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- 6. On the Select server roles, check Windows Server Update Services.
  - đ × Server • (3) | 🖡 Server Manager • Dashboard Manage Tools View Help 🚵 Add Roles and Features Wizard × \_ Dashb Local S DESTINATION SERVER erwu01.erlab.lan Select server roles All Serv File and Select one or more roles to install on the selected server. Before You Begin Installation Type Roles Description Server Selection Active Directory Federation Services Active Directory Lightweight Directory Services Active Directory Rights Management Services Device Health Attestation DHCP Server Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications. Server Roles Features **DNS Server** Fax Server File and Storage Services (1 of 12 installed) Host Guardian Service Hyper-V MultiPoint Services Network Policy and Access Services Print and Document Services Hide Remote Access Remote Desktop Services Volume Activation Services Web Server (IIS) Windows Deployment Services Windows Server Update Services 2 Install Cancel < Previous Next > BPA results Performance BPA results へ 문 4<mark>∞</mark> 7:04 PM 10/11/2017 🖣 e -
- 7. On the Add features required dialog, click Add Features.

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Local S     All Serv     File and     Select server i     Before You Begin     Installation Type     Server Selection     Server Roles     Features     Confirmation     Results		Add Roles and Features Wizard Add features that are required for Windows Server Update Services? You cannot install Windows Server Update Services unless the following role services or features are also installed.  MIT Framework 4.6 Features ASP.NET 4.6 WCF Services HTTP Activation Remote Server Administration Tools Role Administration Tools Windows Server Update Services Tools API and PowerShell cmdlets [Tools] User Interface Management Console Web Server (II)S Amanagement Tools Rols 6 Management Compatibility		DESTINATION SERVER envuloi.eriab.lan	Hide
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8. On the Select server roles dialog, click Next.

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File and B Ir S File V	efore You Begin installation Type erver Selection erver Roles eatures VSUS Role Services Content Veb Server Role (IIS) Role Services confirmation esults	Select one or more roles to install on the selected ser  Roles  Active Directory Federation Services Active Directory Lightweight Directory Servic Active Directory Rights Management Service Device Health Attestation DHCP Server DHCP Server Fax Server Fax Server Horit Guardian Services (1 of 12 installed) Host Guardian Services Hyper-V MultPoint Services Remote Actess Services Remote Desktop Services Velow Activation Services Velow Server IIS) Windows Deployment Services Windows Server Services Windows Server Services Windows Server Lights Experience Windows Server Update Services	rver.	Description Windows Server Update allows network administ specify the Microsoft up groups of computers for sets of updates, and get computers and the upda must be installed.	Services rators to dates that te separate different reports on the stes that	Hide
		RPA results         Perfor           BPA results         Perfor           BPA results         BPA results	Next : rmance esults	> Install	Cancel	

9. On the Select features dialog, click Next.

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Local S     Local S     All Serv     File and     Before You Begin     Installation Type     Server Selection     Server Roles     Returnes     WSUS     Role Services     Content     Web Server Role (IIS)     Role Services     Confirmation     Results		Select one or more features to install on the selected server.	DESTINATION SERVER erwu01.erlab.lan	
		Features         Image: NET Framework 3.5 Features         Image: Network 3.5 Features         Image: Network 4.6 Features (2 of 7 installed)         Image: Network Unlock         BranchCache         Client for NFS         Containers         Data Center Bridging         Direct Play         Enhanced Storage         Failower Clustering         Group Policy Management         I/O Quality of Service         Internet Printing Client         I PA ddress Management (IPAM) Server         ISNS Server service         LPR Port Monitor	Description In The Framework 3.5 combines the power of the NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customer's personal identify information, enable seamless and secure communication, and provide the ability to model a range of business processes.	Hide
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10. On the Windows Server Update Services dialog, click Next.

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File and	Refore You Regin	Windows Server Update Service	es (WSUS) allows administrators to manage the d	lownload and	
	Installation Type	installation of updates from the	Microsoft Update website to the local network.		
	Server Selection	Things to note:			
	Server Roles	At least one WSUS server in	a network must be able to download undates fro	m Microsoft Undate.	
	Features	Other WSUS server can get u	updates either from that server or from Microsoft	Update.	
	WSUS	WSUS server-to-server and s	erver-to-client communications should be set up	to use the Secure	
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11. On the Select role services dialog, click Next.

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File and	Before You Begin Installation Type Server Selection Server Roles Features WSUS Role Services Content Web Server Role (IIS) Role Services Confirmation Results	Select the role services to install for Role services WINUS Services SQL Server Connectivity	Windows Server Update Se	ervices Description Installs the database us into WID.	sed by WSUS	Hide
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12. On the Content location selection dialog, enter the path you want to store the Windows updates (note that U:\ is my second hard disk drive on this server) and then click Next.

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13. On the Web Server Role (IIS) dialog, click Next.

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14. On the Select role services dialog, click Next.



15. On the Confirm installation selections dialog, click Install.

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Local Se Confirm insta	lation selections	DESTINATION SERVER envu01.erlab.lan	
File and Before You Begin Installation Type Server Selection	To install the following roles, role services, or features on selected server, cl Restart the destination server automatically if required Optional features (such as administration tools) might be displayed on this been selected automatically. If you do not want to install these optional feat	ick Install. page because they have atures, click Previous to clear	
Features WSUS Role Services Content Web Server Role (IIS) Role Services Confirmation Results	their check boxes.  NET Framework 4.6 Features ASP.NET 4.6 WCF Services HTTP Activation Remote Server Administration Tools Role Administration Tools Windows Server Update Services Tools API and PowerShell cmdlets User Interface Management Console Web Server (IIS) Export configuration settings Specify an alternate source math	×	Hide
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#### 16. Installation begins.

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### 17. When the installation is complete, click Close.

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18. On the Server Manager window, click the Notifications icon and then click Launch Post-Installation tasks.

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File and Storage Services ▷	QUICK START	Configuration required Installation succeeded on	
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19. On the Server Manager window, click the Notifications icon again to see the progress.



20. Once the configuration is complete, you will see a message under the Notifications icon.

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Dashboard	WELCOME TO SERVER MANAGE	Feature installation     TASKS     X     Configuration required. Installation succeeded on	
All Servers	1 0	erwu01.eriab.ian. Add Roles and Features	
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## **Configure WSUS**

1. Click Start, expand Windows Administration Tools, click Windows Server Update Services.



2. On the Before You Begin dialog, click Next.



3. On the Improvement Program dialog, uncheck Yes, I would like to join the Microsoft Update Improvement Program and click Next.



4. On the Choose Upstream Server dialog, click Next.



5. On the Specify Proxy Server dialog, click Next.

Recycle Bin	s Server Update Services Configuration W pecify Proxy Server Provide proxy server settings for synch date t Program ream Server Server Uusges ucts if this serv Proxy serv Uuse a p Proxy s Uust Uts if ctations nc Schedule	izard:ERWU01 ironizing updates with Microsoft I er requires a proxy server to access er settings here. roxy server when synchronizing server name: umber: 80 e user credentials to connect to th iser name: ssword: Allow basic authentication (pass	Jpdate s the upstream server, you can con e proxy server sword is sent in cleartext)	Figure the
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6. On the Connect to Upstream Server dialog, click Start Connecting.

Recycle	Bin	<ul> <li>Windows Server Update S</li> <li>Connect to Upstre Download up</li> <li>Before You Begin Microsoft Update Improvement Program Choose Upstream Server</li> <li>Specify Proyus Server</li> <li>Choose Languages</li> <li>Choose Classifications</li> <li>Configure Sync Schedule Finished</li> <li>What's Next</li> </ul>	ervices Configuration Wizard:ERWU01 X am Server date information from Microsoft Update Vour 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. Start Connecting Stop Connecting Connecting Stop Connecting Available languages	
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7. A connection attempt begins. Like the message says this can take a while.



8. Once the connection has completed, click Next.

Before You Begin Microsoft Update Improvement Program Choose Upstream Server Specify Proxy Server Choose Loguages Choose Classifications Configure Sync Schedule Finished What's Next	Recycle Bin	Windows Server Update Service     Connect to Upstream Se     Download update in	s Configuration Wizard:ERWU01 × nver formation from Microsoft Update
< Back Next > Finish Cancel Activate Windows Go to Settings to activate Windows.		Before You Begin Microsoft Update Improvement Program Choose Upstream Server Specify Proxy 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 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. Start Connecting Stop Connecting
			< Back Next > Finish Cancel Activate Windows Go to Settings to activate Windows.

9. <u>Select the languages you want to use, and click Next.</u>

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Windows Server Update Service Windows Server Update Service Choose Languages Select the language Before You Begin Microsoft Update Improvement Program Choose Upstream Server Specify Proxy Server Choose Languages Choose Longuages	es Configuration Wizard:ERWU01 es for which this server will download updates If you are storing update files locally, you can filter the updat server by language. Choosing individual languages will affect updated on this server and any downstream servers. O Download updates in all languages, including new langua © Download updates only in these languages:	es downloaded to your which computers can be ges
Choose Classifications Configure Sync Schedule Finished What's Next	Arabic French Bulgarian German Chinese (Hong Kong S.A.R.) Hebrew Chinese (Traditional) Hindi Croatian Hungarian Czech Italian Danish Japanese Dutch Japanese (NEC) English Korean Estonian Latvian Finnish Lithuanian	Norwegian   Polish   Portuguese   Portuguese   Romanian   Sussian   Serbian (Lati   Slovak   Slovenian   Spanish   Swedish   Thai   Thai
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10. Select the products you want to update through WSUS, and click Next.

Windows Server Update Service Choose Products Select the Microsof Before You Begin Microsoft Update Improvement Program Choose Upstream Server Specify Proxy Server Choose Classifications Configure Sync Schedule Finished What's Next	t products to be updated  Vou can specify the products for which you want updates.  Products  Vou can specify the products for which you want updates.  Products  Windows 10 Creators Update and Later Upgrade & Servicing Drivers  Windows 10 GDR-DU LP  Windows 10 GDR-DU U  Windows 10 Language Interface Packs  Windows 10 Language Packs  Windows 10 Sand Later Servicing Drivers  Windows 2000  Windows 2000  Windows 2001 W
	<back next=""> Finish Cancel</back>

11. Select the types of updates you want to get through WSUS, and click Next.

Recycle Bin	Windows Server Update Services Cor Choose Classifications Select the update classifi dicrosoft Update mprovement Program hoose Languages hoose Products hoose Classifications configure Sync Schedule inished What's Next	Afiguration Wizard:ERWU01 cations you want to download You can specify what classification of updates you want to synchronize. Classifications: Security Updates Definition Updates Definition Updates Presture Packs Security Updates Secure Packs Tools Update Rollups Updates Updates Secure Packs Secure Packs S	
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12. Choose when you want to have WSUS check for updates from Microsoft, and click Next.

Recycle Bin	ate Services Configuration Wizard:ERWU01 × dule e when this server synchronizes with Microsoft Update volume and synchronize updates manually or set a schedule for daily automatic synchronization. Synchronize manually Synchronize automatically First synchronization: 30000 M Synchronization spr day: 1 Note that when scheduling a daily synchronization from Microsoft Update, the synchronization start time will have a random offset up to 30 minutes after the specified time.
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13. Select Begin initial synchronization, and click Next.



#### 14. Click Finish.



15. You can now see that the initial sync is beginning.

識 Update Services > 脑 ERWU01	ERWU01     Actions       Image: Description of the state of t
	Overview     Synchronization Status     Help       Computer Status     Computers with errors:     0     Status:     Synchronization Status       Computers needing updates:     0     Status:     Synchronization Status       Computers installed/not     0     Stop       applicable:     Last synchronization result:     Succeeded
	Update status     Updates status       Updates inseded by computers:     0       Updates installed/not applicable:     0       Server Statistics     Connection       Unapproved updates:     960       Type:     Local/SSL
	Approved updates: 0 Port: 8530 Declined updates: 0 User role: Administrator Computers: 0 Server version: 10.0.14393.1715 Activate Windows

16. Now you can see that the server has completed its initial sync and has been syncing for the past week or so.



Configure GPO for Windows Updates

This section walks you through creating a GPO that can be applied to your computers OU. We will set how updates are applied, the update schedule, and the URL for the WSUS server.

1. On your DC, open Server Manager.

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I Local Server All Servers AD DS 한 DHCP ④ DNS II File and Storage Services ▷	QUICK START	Config 2 Add 3 Add 4 Creat 5 Conr	ure this local serv roles and features other servers to mana te a server group nect this server to clou	ver Ige d services		Hide
	LEARN MORE					
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2. Click Tools, Group Policy Management.



3. Expand your Forest and Domain as seen below.

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4. Right-click Group Policy Objects, and click New.

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5. Enter a name for your new GPO, and click OK.

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6. Right-click the new GPO and click Edit.



7. In the Group Policy Management Editor window, expand: Computer Configuration, Policies, Administrative Templates, Windows Components, and click Windows Update.



8. In the right pane, right-click Configure Automatic Updates, and click Edit.



 Select Enable. Then configure your options. I am setting to Auto download and schedule the install, Install during automatic maintenance, Scheduled install date to Every Saturday at 3:00am, and Install updates for other Microsoft products. Once done, click OK.



10. Right-click Specify intranet Microsoft update service location, and click Edit.



11. Select Enabled. Then in the Options section set the URL for your WSUS server and your Statistics server. The format is: http://<FQDN of WSUS Server>:8530. Then click OK.



12. Close the Group Policy Management Editor.



13. In the Group Policy Management window, right-click your computer OU and click Link an Existing GPO...

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Image: Dashboard         Image: Local Server         Image: All Servers         Image: AD DS         Image: AD DS         Image: DHCP         Image: DHCP <td>WELCOME T Group Policy Management File Action View Window File Action View Window Coup Policy Management Coup Policy Management Coup Policy Management Coup Policy Management Coup Policy Management Coup Policy Result Coup Policy Measure Coup Policy M</td> <td>TO SERVER MANAGER  W Help  Group Policy Objet Corterts Delegation Name Corterts Delegation Default Domain Con Corterts Default Domain Con Default Domain Policy UNCILE Default Domain Con Create a GPO in this domain, at Link an Existing GPO Block Inhentance Group Policy Update Group Policy Update Group Policy Modeling Wizard New Window from Here Delete Rename Refresh Properties Help</td> <td>Cts in eriab.lan GPO Status Enabled Enabled M Link it here</td> <td>WMI Filter None None None</td> <td>- C X - B X Modfied 10/10/20174.0 10/11/201772 10/28/201711:</td> <td>Hide</td>	WELCOME T Group Policy Management File Action View Window File Action View Window Coup Policy Management Coup Policy Management Coup Policy Management Coup Policy Management Coup Policy Management Coup Policy Result Coup Policy Measure Coup Policy M	TO SERVER MANAGER  W Help  Group Policy Objet Corterts Delegation Name Corterts Delegation Default Domain Con Corterts Default Domain Con Default Domain Policy UNCILE Default Domain Con Create a GPO in this domain, at Link an Existing GPO Block Inhentance Group Policy Update Group Policy Update Group Policy Modeling Wizard New Window from Here Delete Rename Refresh Properties Help	Cts in eriab.lan GPO Status Enabled Enabled M Link it here	WMI Filter None None None	- C X - B X Modfied 10/10/20174.0 10/11/201772 10/28/201711:	Hide
<u>م</u> 📲	Select an existing GPO and link it to BPA	this container results	BPA results		~ 뒫 (	11:37 AM * 10/28/2017

14. Select your GPO, and click OK.

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Dashboard     Local Server     All Servers     All Servers     All AD DS     DHCP     DNS     File and Storage	WELCOME TO SERVER MANAGER	Modfied 10/10/2017 4:0 10/11/2017 7:2 10/28/2017 11: Hide
	BPA results BPA results	

15. If you click on your computer OU you will see the GPO that is applied.



### Create Computer Groups

Now we will create computer groups. These groups will be used to establish our update plan. We will create two groups. The firsts will be our "Pilot" group and the second will be our "Production" group. The pilot group is where we will apply new updates first. Then after testing has been done we will approve the updates for our production group. Be default, all computers are listed under the Unassigned Computers group. So we will need to assign our computers to the appropriate groups within WSUS. 1. In the Update Services window, expand your server name, Computers, All Computers.

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> 🖢 Updates	computers.	Search
All Computers	To Do	Remove from Console
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	Overview	
	Computer Status Synchronization Status	
	Computers with errors: 0 Status: Idle	
	Computers needing	
	Computers installed/not Last synchronization: 10/30/20	
<b>b</b>	applicable:	
	Last synchronization result: Succeed ed	
	Update Status Download Status	
	Updates with errors: U Updates needing files: U	
	computers: 436	
	Updates installed/not 0 applicable:	
	Server Statistics Connection	
	Unapproved updates: 72743 Type: Local/SSL Approved updates: 0 Port: 8530	¥
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2. Right-click All Computers, and click Add Computer Group...



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<ul> <li>&gt;          &gt;</li></ul>	To Do A 438 security updates are waiting to be <u>approved</u> . Add Computer Group X	Search     Remove from Console     Import Updates      View     New Window from Here     Refresh
	Specify a name for the new computer group. Name: erLab Pilot Group Add Cancel	
	Last synchronization result: Succeed ed Update Status Download Status Updates installed/not applicable: 0 Unapproved updates: 72743 Type: Local/SSL	

3. Set a name for the new group, and click Add.

4. Repeat to add additional Computer Groups as needed.



5. Once your groups are created you can add computers to them. Start by clicking Unassigned Computers to see what has not been assigned to a group.

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6. Right-click the computer you want to assign (you can select multiple computers at one time), and click Change Membership.

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7. Check the group you want the computer(s) to be assigned to, and click OK.

<ul> <li>Update Services</li> <li>Image: Services</li> <li>Image: Services</li> </ul>	Unassigned Computers (9 computers of 9 shown, 9 total)		Actions	
> 😽 Updates	Status: Any - 📿 Refresh		Unassigned Computers	•
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💕 erLab Production Group	A erf selected, the computer will be moved to Unassigned Computers.	Not yet rep	🖸 Refresh	
Downstream Servers	A err	10/30/2017	👔 Help	
Synchronizations	er     er	10/31/2017	Computer	
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8. Repeat these steps until you have assigned all of your computers. You will notice that once you have assigned the computers to a group they won't show up under Unassigned Computers.



by Update Services	erLab Pilot Group (2 computers of 2 shown, 9 total)	Actions
<ul> <li>ERWU01</li> <li>ERWU01</li> <li>Computers</li> <li>Computers</li> <li>Intervention</li> <li>etab Pilot Group</li> <li>etab Pilot Group</li> <li>etab Production Group</li> <li>Synchronizations</li> <li>Synchronizations</li> <li>Options</li> </ul>	Status:     Failed or Needed <ul> <li></li></ul>	erLab Pilot Group Search Add Computer Group View New Window from Here Delete Computer Computer Change Membership Delete Coup By
	erpc01.erlab.lan	Status Report
	Status Updates with errors: 0 Updates needed: 9 Updates installed/not applicable: 72734 Updates with no status: 44 OS: Windo windo S: 0 Compute S: 10 Enterpri COMPUTE S: 10 Compute S: 10 Comp	

9. To see the computers that are assigned to a group, click on the group.

# Approving Updates

Now it is time to start approving updates for your groups.

1. In the left pane, select the type of updates you want to approve (All Updates, Critical, Security, WSUS).

2. Select the updates you want to approve in the middle pane, and click Approve in the right pane.



3. Select the group you want to apply the updates to, and click OK.



4. Now your computers should start to receive updates based on your group policy and your groups within WSUS.