Installing and configuring WSUS

In this guide we install and configure the Windows Server Update Services role on WSUS01 in site 1.

We will create a Group Policy Object (GPO) that will configure our servers and workstations to use WSUS01 for Microsoft Updates instead of the public Microsoft Updates servers.



Navn	Rolle	Operativsystem
<initial>RRAS01</initial>	Gateway, Site-To-Site VPN, Client/server VPN	Server 2012 Standard
DC01	Domain Controller, DNS, DHCP, PKI	Server 2012 Standard
Fil01	Filserver	Server 2012 Standard
WSUS01	Windows Server Update Services Server	Server 2012 Standard
<initial>RRAS02</initial>	Gateway, Site-To-Site VPN, Client/server VPN	Server 2012 Standard
DC02	Domain Controller, DNS, DHCP	Server 2012 Standard
Fil02	Filserver	Server 2012 Standard
Print01	Printserver	Server 2012 Standard
Klient01	Workstation	Windows 8 Enterprise
Klient02	Workstation	Windows 8 Enterprise

Installing and configuring WSUS on WSUS01

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Local Server				Add Servers
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All Servers	Domain	domain.local	Windows Up	Server Manager Properties
File and Storage Services			Last checked for	updates Ne
	Windows Firewall	Public: On	Windows Error Re	eporting Off
	Remote management	Enabled	Customer Experie	ence Improvement Program No
	Remote Desktop	Disabled	IE Enhanced Secu	irity Configuration On
	NIC Teaming	Disabled	Time zone	ر س
	Ethernet	192.168.58.12, IPv6 enabled	Product ID	00
	Operating system version Hardware information	Microsoft Windows Server 2012 Standard Evaluat Microsoft Corporation Virtual Machine	tion Processors Installed memory Total disk space	(RAM) 2 G 39.
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	EVENTS All events 36 total	▼ (ii) ▼ (ii)		TASKS 💌
	Server Name ID Severity	Source Log	Date and Time	
	WSUS01 1076 Warming	Urar22 Custom	22-04-2012 12-40-50	
	WSUSUI 10/0 Warning	y User52 System	22-04-2013 13:49:59	=
	WSUS01 8015 Warning	Microsoft-Windows-DNS Client Events System	22-04-2013 13:46:28	
	WSUS01 8015 Warning	Microsoft-Windows-DNS Client Events System	22-04-2013 13:42:28	
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After the basic setup of WSUS01, we will add a new role.





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All Servers						No
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	Add Se	vers command in Server Manager. Offlir	ne servers and newly-added server	s from which data	(•
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Change the drive letter path to the one of the added extra disk, here E:\

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	Before You Begin Installation Type Server Selection Server Roles Features WSUS Role Services Content Web Server Role (IIS) Role Services Confirmation Results	 Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 8.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 8.0, ASP.NET, and Windows Communication Foundation. Things to note: Using Windows System Resource Manager (WSRM) can help ensure equitable servicing of Web server traffic, especially when there are multiple roles on this computer. The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression. 	Hide
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및 WSUS	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 synchronizing Proxy server name: Port number: 80 Use user credentials to connect to the proxy server User name: Domain: Password: Allow basic authentication (password is sent in cleartext)	Hide
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All Servers		ages	
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IIS	Before You Begin Microsoft Undate	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	
🖳 WSUS	Improvement Program	updated on this server and any downstream servers. For more information see <u>Specify</u>	=
	Choose Upstream Server Specify Proxy Server	the update languages you want to synchronize.	
	Choose Languages	O Download updates in all languages, including new languages	
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	Configure Sync Schedule	Arabic Finnish Latvian	
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First put a check mark in **All Products** then remove it again. This way we have removed all below check marks including Microsoft Office updates, that we do not need in this environment.

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Choose Upstream Server	Classifications:	=
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How often must WSUS01 check the public Microsoft Update servers for new updates.



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 Local Server All Servers File and Storage IIS WSUS 	What's Next Next steps to 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	get your WSUS Server integrated into your environment Next Steps: To fully configure your system, you should explore the following topics: 1. Using SSL with WSUS 2. Create computer groups 3. Assign computers to groups using Group Policy. 4. Configure auto-approval rules	Hide
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Help page for WSUS configuration (If you did not have this guide).

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We will create WSUS computer groups by right clicking **All Computers** → **Add Computer Group**...



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Create the remaining computer groups above.

Configuration with Group Policy Object (GPO)

In this part we create a GPO, that configures our workstations and servers to use our own WSUS server for Microsoft Updates.

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📕 Defa	Create a GPO in this domain, and Link it here		
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Create a new GPO by right clicking the domain name \rightarrow Create a GPO in this...



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We change settings in the new policy by right cliking it ${\bf \rightarrow Edit}$



Navigate to Computer Configuration \rightarrow Administrative Templates \rightarrow Windows Components \rightarrow Windows Update and double click **Specify intranet Microsoft Update service location**

	Group Policy Management	
Specify	intranet Microsoft update service location	<u>-</u>
Specify intranet Microsoft update ser	ce location Previous Setting Next Setting	X
Not Configured Comment: Enabled	<u>^</u>	
O Disabled		
Supported on:	t least Windows XP Professional Service Pack 1 or Windows 2000 Service Pack 3, Activity Windows RT	th wain.local
Options:	Help:	Updates and Shut Do Nc agement to automati Nc
Set the intranet update service for detecti updates:	g Specifies an intranet server to host updates from Microsoft Update. You can then use this update service to automatically update computers on your network.	ce location
http://wsus01.domain.local:8530	letr you specify a server on your network to function	pdate notifications Nc
Set the intranet statistics server:	as an internal update service. The Automatic Updates client will	Nc Nc
http://wsus01.domain.local:8530	search this service for updates that apply to the computers on prk.	itomatic Updates Nc
(example: http://lntranetUpd01)	To use this setting, you must set two servername values: the server from which the Automatic Updates client detects and developed updates update.	or scheduled automat Nc nstallations Nc
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	If the status is set to Enabled, the Automatic Updates client connects to the specified intranet Microsoft update service, instead of Windows Update, to cearch for and download	Microsoft update ser No
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Enable the setting and complete path + port number pointing at WSUS01.

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Windows Color System	beschption	E Turn on Software Notifications	Not configured
Windows Customer Experience Im	Specifies whether this	Allow Automatic Updates immediate installation	Not configured
Windows Defender	computer will receive security	Turn on recommended updates via Automatic Updates	Not configured
Windows Error Reporting	downloads through the Windows	No auto-restart with logged on users for scheduled automat	Not configured
Windows Installer	automatic updating service.	Re-prompt for restart with scheduled installations	Not configured
Windows Logon Options	This setting lets you specify	Delay Restart for scheduled installations	Not configured
Windows Media Center	whether automatic updates are	Enable client side targeting	Not configured
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Windows Messenger	Group Policy Setting:		
Windows Mobility Center	2 – Notify before		
Windows PowerShell	downloading any updates and		
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Windows SideShow	that apply to this computer, an		
🚆 Windows System Resource Manag	icon appears in the status area		
📔 Windows Update	with a message that updates are		
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▷ Preferences	option to select the specific		
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Configure automatic upo 4 - Auto download and The following settings an applicable if 4 is selected Scheduled install day: 0 - Every day Scheduled install time:	Jating: schedule the install re only required and j. 11:00 v	Specifies whether this comprovements of the setting lets you specify the enabled on this computer. If the setting lets you specify the select one of the four options in the setting ore download the setting are ready to be downloaded. Clic provides the option to select the Windows then downloads the sele background. When the downloads in the status area again, with a nor ready to be installed. Clicking the option to select which updates to the setting the option to select which updates to the setting the option to select which updates to the set the set of	uter will receive secu hrough the Window whether automatic u service is enabled, yu he Group Policy Set ng any updates and s that apply to this of with a message that king the icon or mes specific updates to to cited updates in the l is complete, the ico tification that the up icon or message pr install.	irity updates s automatic updates are ou must ting: notify again computer, t updates ssage download. bon appears pdates are ovides the	ediate installation : via Automatic Updates users for scheduled autom duled installations allations scheduled installations htranet Microsoft update se	Not configured Not configured At Not configured Not configured Not configured Not configured Not configured :r Not configured	
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Complete and click **OK** then close all open windows on DC01.

Notice. We just created a GPO on the highest level in our domain. Settings in this GPO will apply to **all** users, workstations, member servers and domain controllers in our domain. We have just configured member servers and domain controllers to install Microsoft Updates, which per default automatically will restart the machine, as needed. In a production environment, you should test updates first and should be very careful about which servers you let update and restart automatically. We do this in our test environment to have some machines to manage in WSUS. Our test users do not care about service downtime.

Verify WSUS configuration

We will now verify if Klient01 is managed by our WSUS settings.

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Press the Windows key and type command or cmd



Gpupdate forces Klient01 to look for new GPO'er and/or settings.

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After the Computer Policy update has completed, we can check if the settings have been applied on Klient01. This can be done by running **rsop.msc**, which looks in the local configuration on the machine. Here we can see that the two WSUS settings are applied.



To force the computer to contact the WSUS server, you can type the above command. Notice that some time may pass before the computer is visible on the WSUS server.

Approving updates

On WSUS01, when the computers are visible in the WSUS snap in, we can add the computers to the groups, representing the various departments and approve updates on each of the groups.

Following Microsoft best practice, you should have a test computer group containing computers representing each department of the company with their various combinations of software the company uses. By approving and testing updates against the test group, you are able to find potential issues before the updates are applied to the rest of the company.

In our test environment we approve updates directly on the departments.

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Unassigned Computers	🔔 jhjerras01.domain.local 192.168.58.1 Windows Server 2012 81% 23-04-2013	13:52 New Window from Here
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	wsus01.domain.local	
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	Updates with no status: 0 2012	
	Sonico pode None	
	ID address: fe80:5d0f:f689;abd	b
	:33e7%12	
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Change the computer groups to which this		
		13:58
		25-04-2013

To add computers to groups, right click \rightarrow Change membership...

Do this for all servers, even if it does not look like the above image.





Here Klient01 is added to the sales (salg) group.

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Reports		Approve	Security Upda	25% Not approved		
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	\Lambda Cumulative Security Update f	or Internet Explorer 10 for	. Security Upda	25% Not approved	=	? Help
	\Lambda Update for Windows 8 for x64	-based Systems (KB27709.	. Critical Updates	75% Not approved		
	A Security Update for Windows	Server 2012 (KB2808735)	Security Upda	25% Not approved		
					~	
	Update for Windows Server 2012	2 (KB2751352)				
	This update is superseded by	another update. Before v	ou decline any sup	erseded update, we		
	recommend that you verify i superseding update first.	it is no longer needed by a	ny computers. To	do so, approve the	=	
	Status:		MSRC severit	y: Unspecified		
	Computers with	errors: 0	MSRC numbe	er: None		
	Computers need	ling this update: 3	Release date:	11. september 2012		
	Computers with	no status: 0	KB article nur	mbers: ²⁷⁵¹³⁵²		
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To approve updates against a computer group, mark all needed updates, right click one \rightarrow Approve...



Install the updates for the desired groups. When new machines are joined a computer group, they will automatically install already approved updates.



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The list of missing updates is now empty until new updates are available from Microsoft or until new machines that are missing updates, contacts the WSUS server.

Computers that have been approved for updates will install the updates according to the schedule we made in our GPO (11:00 O'clock every day)