P&U Self Service for CPS Standard

In Cloud Platform System (CPS), software updates are automated through the CPS Patch and Update (P&U) framework. This document covers the steps to create P&U packages to install software updates to CPS Standard for delivery of monthly Windows updates.

This software requires a dedicated standalone VM for WSUS and packaging operations. Don't use the CPS WSUS VM or an existing WSUS VM in your environments. Create a new VM that has Internet connectivity to download WSUS packages.

Setting up WSUS

Deploy a new Windows Server 2012 R2 VM, called "CPSWSUS" here for convenience

Verify Windows Se	rver 2012	R2 is	installed.
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	Control Panel Home	View basic information	about your computer				0
9	Device Manager	Windows edition					
9	Remote settings	Windows Server 2012 R2 Da	atacenter			0.040	
	Advanced system settings	© 2013 Microsoft Corporat	ion. All rights reserved.	Win	dows Serve	r [°] 2012	2R2
		System					
		Processor:	Intel(R) Xeon(R) CPU E5-2673 v3 @ 2.40	GHz 2.40 GHz			
		Installed memory (RAM):	3.50 GB				
		System type:	64-bit Operating System, x64-based pro	cessor			
		Pen and Touch:	No Pen or Touch Input is available for t	his Display			
		Computer name, domain, and	workgroup settings				
		Computer name:	W2012R2WSUSTest		e	Change set	tings
		Full computer name:	W2012R2WSUSTest		-		
		Computer description:					
		Workgroup:	WORKGROUP				
			About Windows	x]		
		Wind	lows Server 20	12 R2	Cha	nge produ	t key
	See also	Microsoft Windows Sc Version 6.3 (Build 960 © 2013 Microsoft Co The Windows Server interface are protect intellectual property i countries/regions.	erver 00) rporation. All rights reserved. 2012 R2 Datacenter operating system and its ed by trademark and other pending or existin ights in the United States and other	s user g			
	Windows Undate						
	Windows opdate	This product is license	ed under the Microsoft Software License				
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Do all Windows Updates (including any required reboots) on this new VM.

Create a C:\CPSTemp folder on the CPSWSUS VM Create a C:\WSUS folder on the CPSWSUS VM Create a C:\WSUS_Export folder on the CPSWSUS VM

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⊕ ⊚ - ↑ 👗 🖬	This PC 🔸 Windows (C:) 🔸			
🔆 Favorites	Name	Date modified	Туре	Size
📃 Desktop	🕌 CPSTemp	10/3/2019 10:35 PM	1 File folder	
📕 Downloads	📕 Packages	10/3/2019 9:31 PM	File folder	
🔚 Recent places	퉬 PerfLogs	8/22/2013 3:52 PM	File folder	
1 m	鷆 Program Files	10/3/2019 9:58 PM	File folder	
📕 This PC	Program Files (x86)	10/3/2019 9:58 PM	File folder	
	🍶 ProgramData	8/22/2013 2:48 PM	File folder	
👊 Network	🎒 Users	10/3/2019 9;40 PM	File folder	
	闄 Windows	10/3/2019 9:38 PM	File folder	
	🐌 WindowsAzure	10/3/2019 10:14 PM	1 File folder	
	🎳 wsus	10/3/2019 10:35 PN	File folder	
	🎉 WSUS_Export	10/3/2019 10:35 PM	1 File folder	

Add the WSUS server role in Server Manager

Server Manager					
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Partheout	PROPERTIES				Remove Roles and Features
Local Server	Computer name	W2012N2W5USTest	Last watefied updates.	Tabley of 10.11 PM	Add Servers Create Server Group
File and Storage Services	and the second s		Last checked for updates	Today at 10:25 PM	; server warager mopernes
	Westows Frenet Remote rearragement Remote Destrop NET Learning Effected	Reate On Enabled Enabled Deabled IPv4 address assigned by DHCP, IPv6 enabled	Workies Error Reporting Contrarte Experiment Improvement Program It Unknown! Security Configuration Time same Product (D	Off Not participating Off 8/TC) Coordinated 5 00255-50000-00000	treamal Time AMAI2 (activered)
	Operating system version Hardware reformation	Microsoft Windows Server 2013 RJ: Datacenter Microsoft Corporation Virtual Machine	Processors Installed memory (RAM) Total dult spece	Well(1) Kesnift CPG 3.1 GB 133.51 GB	15-2673 +3 @ 2.40GHz



i		Add Roles and Features Wizard		_ 🗆 X
Sele Bef Inst Ser Fea Co Res	ect server ro fore You Begin tallation Type ver Selection ver Roles atures nfirmation sults	Add Roles and Features Wizard 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. AUT Framework 4.5 Features ASP.NET 4.5 ARemote Server Administration Tools Role Administration Tools Role Administration Tools Role Administration Tools Windows Server Update Services Tools API and PowerShell cmdlets [Tools] User Interface Management Console Web Server (IIS) Management Tools Add Features Cancel		LESTINATION SERVER W2012R2WSUSTest W2012R2WSUST W2012W
		< Previous Next >	>]	Install Cancel

Ъ	Add Roles and Features Wizard	_ D X
Select role servic Before You Begin Installation Type	CS Select the role services to install for Windows Server Update Se Role services	DESTINATION SERVER W2012R2WSUSTest ervices Description
Server Selection Server Roles Features WSUS Role Services Content Web Server Role (IIS) Role Services Confirmation Results	WID Database WSUS Services Database	Installs the database used by WSUS into WID.
	< Previous Next	> Install Cancel
a	Add Roles and Features Wizard	_ _ X
Content location	selection	DESTINATION SERVER W2012R2WSUSTest
Before You Begin Installation Type	If you have a drive formatted with NTFS and at least 6 GB of fro updates for client computers to download quickly.	ee disk space, you can use it to store
Server Selection Server Roles Features	If you need to save disk space, clear the check box to store up downloads will be slower. If you choose to store updates locally, updates are not downlo	dates on Microsoft Update; aded to your WSUS server until you
WSUS Role Services Content Web Server Role (IIS) Role Services Confirmation Results	approve them. By default, when updates are approved, they ar Store updates in the following location (choose a valid local remote path) : C:\WSUS	e downloaded for all languages. I path on W2012R2WSUSTest, or a
	< Previous Next >	Install Cancel

Install Summary:

D X

DESTINATION SERVER W2012R2WSUSTest

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Before You Begin	To install the following roles, role services, or features on selected server, click Install.
Installation Type	Restart the destination server automatically if required
Server Selection	Optional features (such as administration tools) might be displayed on this page because they have
Server Roles	been selected automatically. If you do not want to install these optional features, click Previous to clear
Features	their check boxes.
WSUS	.NET Framework 4.5 Features
Role Services	ASP.NET 4.5
Content	Remote Server Administration Tools
Web Server Bole (IIS)	Role Administration Tools
Role Convisos	Windows Server Update Services Tools
Role Services	API and Powershell childres
Contirmation	Oser Interface Management Console
Results	Web Server (IIS)
	Management Tools
	IIS 6 Metabase Compatibility
	IIS Management Console
	Web Server
	Application Development
	ASP.NET 4.5
	ISAPI Extensions
	ISAPI Filters
	.NET Extensibility 4.5
	Common HTTP Features
	Default Document
	Static Content
	Performance
	Dynamic Content Compression
	Security
	Request Filtering
	Windows Authentication
	Windows Internal Database
	Windows Process Activation Service
	Configuration APIs
	Windows Server Update Services
	WSUS Services
	WID Database
	Export configuration settings
	Specify an alternate source path
	< Previous Next > Install Cancel

Launch the WSUS Admin Console

b

Confirm installation selections

6.08-	Shertcut Tools		Administrativ	e Tools		- 0	x
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Downloads	Internet Information Services (IIS) Manager	£/22/2013 €-50 AM	Shortcut	2 KB			
32 Recent places	St. (SCS) Initiator	8/22/2011 6:57 AM	Shartcut	2 KB			
	Local Security Policy	8/22/2013 6:54 AM	Shortcut	2 KH			
This PC	Microsoft Azure Services	11/21/2014 ±09 AM	Shortcut	2 KB			
0	DDBC Data Sources (32-bit)	8/21/2013 11:56 PM	Shortcut	2 KB			
Network	DDBC Data Sources (64-bit)	8/22/2013 6:59 AM	Shortcut	2.48			
	Performance Monitor	8/22/2013 6:52 AM	Shortcut	2.68			
	Resource Monitor	8/22/2013 6:52 AM	Shortcut	2.4/B			
	Security Configuration Wizard	8/22/2013 6:45 AM	Shortcut	2.68			
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	🔛 System Configuration	I/22/2013 653 AM	Shortcut	2. KB			
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	Task Scheduler	8/22/2013 6:55 AM	Shortcut	2 KB			
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	Windows Memory Diagnostic	6/22/2013 6:52 AM	Shortcul	2 KB			
	😥 Windows PowerShell (x86)	8/22/2013 3:57 PM	Shortcut	3 年日			
	Windows PowerShell ISE (x86)	1/22/2013 &55 AM	Shortcut	2 KB			
	Windows PowerShell ISE	8/22/2013 6:55 AM	Shortcut	2.43			
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	Windows Server Update Services	8/22/2013 T/00 AM	Sherbourt	2 83		10	
26 items 1 item sele	cted 1.06 KB						

遨	Complete WSUS Installation	x
B	The locally hosted WSUS Server requires additional steps in order to comple the installation. WSUS post-installation process can run those steps for you. Would you like to run it now?	te
✓ Store Cont	e updates locally tent directory path: C:\WSUS Browse Run Close	

Click "Run"

南	Complete WSUS Installation
	Post-installation task in progress. This might take a few minutes. Please don't close this window.
Store Con	e updates locally tent directory path: C:\WSUS Browse
	Run Close

This process will take about 5 minutes to complete

Click "Close" when complete

	Complete WSUS Installation	x
	Post-installation successfully completed. Click Close to launch the WSUS Administration Console.	
✓ Store Con	e updates locally tent directory path: C:\WSUS Browse	
	Run Close	

Then, the First Run Configuration Wizard will open

Window	ws Server Update Services Configuration Wizard:W2012R2WSUSTest
Before You Beg Things you sho	jin ould 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? 2. 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 > Finish Cancel

This VM must be able to connect to the Internet, including any Proxy credentials as necessary.

Configure WSUS to download the Microsoft Update directly

Windows Serve	er Update Services Configuration Wizard:W2012R2WSUSTest				
Choose Upstream Serve Provide the upstream serve	eam Server Ipstream server from which you want to synchronize content				
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 can choose the upstream server from which your server synchronizes updates. Synchronize from Microsoft Update Synchronize from another Windows Server Update Services server Server name: Port number: 8530 Use SSL when synchronizing update information If using SSL, ensure that the upstream WSUS server is also configured to support SSL. This is a replica of the upstream server A replica server mirrors update approvals, settings, computers and groups from its parent. Updates can be approved only on the upstream server.				
	< Back Next > Finish Cancel				

Setup Proxy, as appropriate

The Windows	Server Update Services Configuration Wizard:W2012R2WSUSTest			
Specify Proxy Server Provide proxy server settings for synchronizing updates with Microsoft Update				
Before You Begin Microsoft Update Improvement Program Choose Upstream Server	If this server requires a proxy server to access the upstream server, you can configure the proxy server settings here.			
Specify Proxy Server	Use a proxy server when synchronizing			
Choose Languages	Proxy server name:			
Choose Products	Port number: 80			
Choose Classifications	Use user credentials to connect to the proxy server			
Configure Sync Schedule				
What's Next	Domain:			
	Allow basic authentication (password is sent in cleartext)			
	< Back Next > Finish Cancel			

When complete, click "Next" to continue



Leave the default language of "English"

🐱 Windo	Server Update Services Config	uration Wizard:W2012R2W	/SUSTest	x
Choose Langu Select the lang	es ges for which this server will download	updates ; locally, you can filter the update	es downloaded to your	
Microsoft Update Improvement Program Choose Upstream Server Specify Proxy Server Choose Languages	server by language. Choosing updated on this server and ar O Download updates in all li	g individual languages will affect ny downstream servers. anguages, including new languag	which computers can be	-
Choose Products Choose Classifications Configure Sync Schedule Finished What's Next	 Download updates only in Arabic Bulgarian Chinese (Hong Kong Chinese (Simplified) Chinese (Traditional Croatian Czech Danish Dutch English Estonian Finnish < III 	a these languages: French German S.A.R.) Greek Hebrew Hindi Hungarian Italian Japanese Japanese (NEC) Korean Latvian Lithuanian	 Norwegian Polish Portuguese Portuguese Romanian Russian Serbian (Lati Slovak Slovenian Spanish Swedish Thai 	
		< Back Next >	Finish Cancel	

On the "Choose Products" screen, uncheck all of the defaults Uncheck - Office and Windows

Check these products specifically (not their folder level categories): "ASP.NET Web Frameworks" "Visual Studio 2008" "Visual Studio 2010" "Microsoft SQL Server 2012" "Microsoft SQL Server 2014" "System Center 2012 R2 - Operations Manager" "Windows Server 2012 R2"

On the "Choose Classifications", ensure that only the following are checked:

"Critical Updates" "Definition Updates" "Feature Packs" "Security Updates" "Service Packs" "Tools" "Update Rollups" "Updates" "Upgrades"

Selections should look like this:

🐱 Winde	idows Server Update Services Configuration Wizard:W2012R2WSUSTest		
 Windo Windo Choose Classi Select the 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 	wws Server Update Services Configuration Wizard:W2012R2WSUSTest X fications date classifications you want to download vou can specify what classification of updates you want to synchronize. Classifications: Classifications: Classifications ····································		
	All classifications, including classifications that are added in the future.		

Leave schedule to manual:

🗟 Windo	ows Server Update Services Configuration Wizard:W2012R2WSUSTest			
Set Sync Scher Configure wh	ule In this server synchronizes with Microsoft Update			
Betore 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 can synchronize updates manually or set a schedule for daily automatic synchronization. Synchronize manually Synchronize automatically First synchronization: 2:30:27 AM Synchronizations per 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. 			
	< Back Next > Finish Cancel			

Check the box "Begin initial synchronization", and click "Finish"

Finished Before You Begin Nicrosoft Update Microsoft Update Improvement Program Chose Upstream Server Specify Proxy Server Chose Languages Chose Classifications Configure Sync Schedule Finished What's Next Very Server <li< th=""><th>a Windows S</th><th colspan="3">Windows Server Update Services Configuration Wizard:W2012R2WSUSTest</th></li<>	a Windows S	Windows Server Update Services Configuration Wizard:W2012R2WSUSTest		
Before You Begin Wincrosoft Update Improvement Program Choose Upstream Server Specify Proxy Server Choose Languages Choose Classifications Consigure Sync Schedule Frinished What's Next Vou have now finished configuring your WSUS server. You can go on to launch the WSUS Administration Console or start the initial synchronization. Image: Choose Upstream Server Launch the Windows Server Update Services Administration Console Get started administration Console. Get started administration Console. Image: Choose Classifications Services Administration 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.	Finished Finished initial confi	iguration 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 		

Expand the server on the left pane, and click on "Synchronizations" to see the sync in progress



This could take some time to complete.

Completion:

2	Update Services - D					- D X		
File Action View Winds	w Help							
Update Services	Syntheord	aatkoos (2 synchronization	a la	00000			Actions	
Compare services A Town Voltage Services	©	v File 10/3/2019 11:09 M 10/3/2019 12:56 PM Synchronization Deta Sined 10/3/2	1940 Type 1040 Type 1073/2010 11:31 PM Manual 1073/2010 11:39 PM Manual 1073/2010 11:39 PM Manual 105 115 115 115 115 115 115 115	Revolt Succeeded Succeeded	New Up 0 909 0	nviord Top- 0 3 0 0	Action Synchronizations Surch Synchronization Optimus View New Window born Here Refraith Help Synchronization Result Synchronization Report Vieip	
		Finished: 10/1/32 Result: Succes Type Manual Error: 0 New update: 900 Remail update: 0 Expired update: 3	na majina fed					

Script Setup

Copy the provided script, Framework files (extract to a folder), and MUKBLIST.TXT into the C:\CPSTemp folder



Extract "CPS-S Empty Framework" folder in C:\CPSTemp. It contains a "blank" P&U package that is ready for payload files and a version number in the Manifest.json file.



These files along with the WSUS install, and the directories created earlier are the requirements for creating the CPS P&U payload using the Create-PNUPackage.ps1 script.

Script Execution

The Create-PNUPackage.ps1 script is executed to download the WSUS patch payload for CPS P&U, and that payload is exported for use with P&U.

Example MUKBLIST.TXT (1909 content, pre-check):

KB890830 KB4514604 KB4516067 KB4516115

Example Syntax for an Administrative PowerShell session:

CD C:\CPSTemp

.\Create-PNUPackage.ps1 -ExportPath C:\WSUS_Export -WSUSPath C:\WSUS -MUKBListPath C:\CPSTemp



J	Administrator: Windows PowerShell
S CINCPSTemp W	rease And Astronomy and - ExpertShift Crushis Expert - Wildforth Crushin -Hungl (1924)
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EREDSE: Performin	g the operation "Remove Pile" on target "C:\MSUS.Expert\Payload\MSUSExpert\MSUSExpert\ASUS(AusContent)41(2123382188.21209551381)28:3F860CC1011.exe" on the operation "Remove Discretion" on Larget "C:\MSUS(Remove) Review Discretion(Streter)AsUS(Remove) Review Discretion(Streter)
ERBOSE: Performin	g the operation "Remove File" on target "Cl/MSUS_Esport/Payload aSUSExport/WSUS/AsusContent/XC/88A2E403780433E6802878E2188423F9E80479C con"
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ERBOSE: Performin	g the operation "Accove File" on target "CiVASUS_ExportVayload/WSUSExportVing_tar". In the operation "Accove File" on target "CiVASUS_ExportVayload/WSUSExportVing_tar".
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Note: After script completion, the original C:\CPSTemp\MUKBLIST.TXT is updated to contain the list of updates downloaded for the P&U package. Those KB updates are downloaded for inclusion into the CPS P&U Export binaries (C:\WSUS_Export in the above example).

Example Final MUKBLIST.TXT (1910 updated content, post-check):

KB4516115 KB4520005 KB4524104 KB890830

File Copy and Versioning

In the WSUS_Export folder, is the exported WSUS payload for P&U. Copy the Payload folder in WSUS_Export into the "CPS-S Empty Framework" folder in C:\CPSTemp. It should already have a Payload folder to match.



Contents of the combined Payload folder should look like this:

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File Home Share	View				× 0
- + = + CP	S-S Empty Framework + CPS-S Empty Fr	amework + Payload	¥ 6	Search Payload	,P
Favoritas	Name	Date modified	Type	Size	
E Desktop	La Documentation	9/10/2019 11:36 AM	File folder		
🐞 Downloads	MgmtAssets	9/10/2019 11:37 AM	File folder		
S Recent places	JatchingUpdates	1/14/2020 1:13 PM	File Folder		
EPS-Standard	🍶 WSUSExport	1/14/2020 1/37 PM	File folder		
🗼 CPSPU	BOM.json	1/14/2020 1:33 PM	ISON File	2 8 8	
👗 ReleasePU	ComponentBOM.json	3/17/2019 5:54 AM	ISON File	10 828	
🗼 SelfService					
15 This PC					
Desktop					
Documents					
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Music					
E Pictures					
Videos					
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🕞 Temporary Stora					
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Network					
6 items					

P&U package versioning needs to be done manually. The Manifest.json file should be updated with a version number. The version number should keep the same format as other P&U packages, with the date.

Example for October 10^{th} , 2019 would be: 1.0.1910.10001 Example for February 11^{th} , 2020 would be: 1.0.2002.11001 Example for June 9^{th} , 2020 would be: 1.0.2006.09001

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File Edit Format View Help	File Edit Format View Help
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Make sure that the package version adheres to the general examples above so that future packages will install correctly.

Results

The resulting package should contain payload files and an appropriate P&U package version. This package can now be used for a P&U install.