



WSUS regelmäßig über Task aufräumen

Implementierung Script von „Adamj“ - Clean-WSUS

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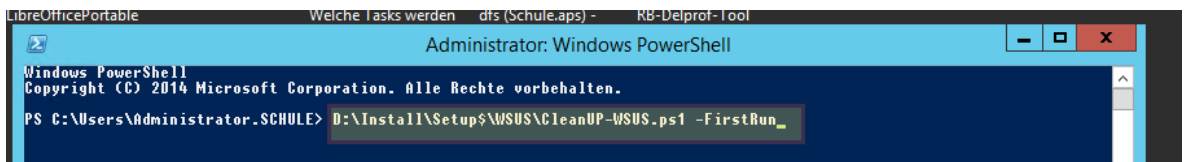
A. Powershellsript einbinden

[Download](#)

1. Powershellsript „CleanUP-WSUS.ps1“ in Ordner D:\Install\Setup\$\WSUS kopieren und im Script ab Zeile 568 die notwendigen Variablen editieren:

```
568 |
569 | #Region Configuration Variables
570 | #####
571 | # Configuration Variables #
572 | # Simple Configuration #
573 | #####
574 |
575 | #####
576 | # Mail Report Setup Variables #
577 | #####
578 |
579 | # From: address for email notifications (it doesn't have to be a real email address, but if you're sending through Gmail it must be
580 | # your Gmail address). Example: 'WSUS@domain.com' or 'email@gmail.com'
581 | [string]$AdamjMailReportEmailFromAddress = 'it@vsm1.snv.at'
582 |
583 | # To: address for email notifications. Example: 'firstname.lastname@domain.com'
584 | [string]$AdamjMailReportEmailToAddress = 'it@vsm1.snv.at'
585 |
586 | # Subject: of the results email
587 | [string]$AdamjMailReportEmailSubject = 'VSM1-WSUS Adamj-Script Cleanup Results: VS Mellau'
588 |
589 | # Enter your SMTP server name. Example: 'mailserver.domain.local' or 'mail.domain.com' or 'smtp.gmail.com'
590 | # Note Gmail Settings: smtp.gmail.com Port:587 SSL:Enabled User:user@gmail.com Password (if you use 2FA, make an app password).
591 | [string]$AdamjMailReportSMTPServer = 'mail.snv.at'
592 |
593 | # Enter your SMTP port number. Example: '25' or '465' (Usually for SSL) or '587' or '1025'
594 | [int32]$AdamjMailReportSMTPPort = '25'
595 |
596 | # Do you want to enable SSL communication for your SMTP Server
597 | [boolean]$AdamjMailReportSMTPServerEnableSSL = $True
598 |
599 | # Do you need to authenticate to the server? If not, leave blank. Note: if your password includes an apostrophe, use 2 apostrophes so that one escapes the other. eg. 'that's how'
600 | [string]$AdamjMailReportSMTPServerUsername = 'it@vsm1.snv.at'
601 | [string]$AdamjMailReportSMTPServerPassword = 'vsm112345678'
602 |
```

2. Powershell als Administrator öffnen → Scriptdatei hineinziehen (Drag&Drop) und als Parameter „-FirstRun“ hinzufügen:



Damit wird das Script auf die eigene Instanz initialisiert, die enthaltenen Jobs werden erstmalig ausgeführt:

```
PS C:\Users\Administrator.SCHULE> D:\Install\Setup$\WSUS\CleanUP-WSUS.ps1 -FirstRun
Starting the connection to the SQL database and WSUS services. Please wait...
Connected to the WSUS server server.schule.aps
Executing WSUSIndexOptimization

Id Name PSJobTypeName State HasMoreData Location Command
-- --
1 Job1 BackgroundJob Completed True localhost sqlcmd -S np:\\.\pipe\...
Executing RemoveWSUSDrivers
3 Job3 BackgroundJob Completed True localhost sqlcmd -S np:\\.\pipe\...
Executing RemoveObsoleteUpdates

Please be patient, this may take a while.
It is not abnormal for this process to take minutes or hours. It varies per install and per execution.
If you cancel this process (CTRL-C/Close the window), you will lose the documentation/log of what has happened thusfar,
but it will resume where it left off when you run it again.
5 Job5 BackgroundJob Completed True localhost sqlcmd -S np:\\.\pipe\...
Executing CompressUpdateRevisions
7 Job7 BackgroundJob Completed True localhost sqlcmd -S np:\\.\pipe\...
Executing DeclineMultipleTypesOfUpdates
Adamj Decline Multiple Types of Updates Stream

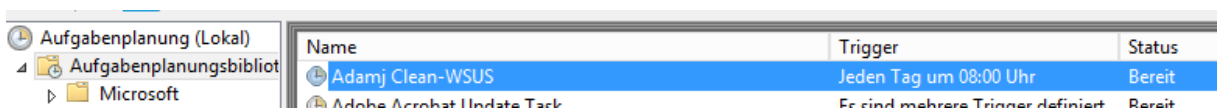
There are 2380 updates in this server's database.
There are 14 types of updates that we're going to deal with today:

1. Superseded: Displaying the titles of the Superseded updates that have been declined:
   Superseded has no updates to decline.
2. Expired: Displaying the titles of the Expired updates that have been declined:
   Expired has no updates to decline.
3. Preview: Displaying the titles of the Preview updates that have been declined:
   Preview has no updates to decline.
4. Itanium: Displaying the titles of the Itanium updates that have been declined:
   Itanium has no updates to decline.
5. LanguagePacks: Skipped
6. IE7: Skipped
7. IE8: Skipped
8. IE9: Skipped
9. IE10: Skipped
10. Beta: Displaying the titles of the Beta updates that have been declined:
    Beta has no updates to decline.
11. Embedded: Skipped
12. NonEnglishUpdates: Skipped
13. ComputerUpdates32bit: Skipped
14. WinXP: Skipped

Decline Multiple Types of Updates Stream Duration: 00:00:00:15
Executing CleanUpWSUSSynchronizationLogs
9 Job9 BackgroundJob Completed True localhost sqlcmd -S np:\\.\pipe\...
Executing ComputerObjectCleanup
Executing WSUSDBMaintenance
11 Job11 BackgroundJob Completed True localhost sqlcmd -S np:\\.\pipe\...
Executing WSUSServerCleanupWizard
Executing Install-Task
TaskName: Adamj Clean-WSUS
State : Ready

PS C:\Users\Administrator.SCHULE>
```

...und es wird automatisch ein Task erzeugt, der das Script jeden Morgen um 8:00 Uhr mit dem Parameter **-ScheduledRun** aufruft:



Der Zeitpunkt für den Aufruf (8:00 Uhr) kann natürlich nachträglich über den Taskmanager geändert werden.

Hinweis: Sollten bei diesem Aufruf (und nur dann!!) innerhalb der PowerShell Fehlermeldungen (rot) erscheinen, wie z.B.:

```
PS C:\Users\Administrator.SCHULE> D:\Install\Setup\WSUS\CleanUP-WSUS.ps1 -FirstRun
Starting the connection to the SQL database and WSUS services. Please wait...
Connected to the WSUS server server.schule.aps
Executing WSUSIndexOptimization

Id      Name      PSJobTypeName  State      HasMoreData  Location  Command
----      -
2       Job2      BackgroundJob  Failed     False        localhost sqlcmd -S np:\\.pipe\...
Die Benennung "sqlcmd" wurde nicht als Name eines Cmdlet, einer Funktion, einer Skriptdatei oder eines ausführbaren
Programms erkannt. Überprüfen Sie die Schreibweise des Namens, oder ob der Pfad korrekt ist (sofern enthalten), und
wiederholen Sie den Vorgang.
+ CategoryInfo          : ObjectNotFound: (sqlcmd:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException
+ PSComputerName        : localhost

Es ist nicht möglich, eine Methode für einen Ausdruck aufzurufen, der den NULL hat.
```

... dann liegt das normalerweise an fehlenden Komponenten für „sqlcmd“. **In diesem Fall bitte den [Anhang](#) beachten!**

3. Zum Testen das Script mit dem Parameter **-ScheduledRun** aufrufen:

```
PS C:\Users\Administrator.SCHULE> D:\Install\Setup\WSUS\CleanUP-WSUS.ps1 -scheduledrun
Starting the connection to the SQL database and WSUS services. Please wait...
Connected to the WSUS server server.schule.aps
Executing DeclineMultipleTypesOfUpdates
Adamj Decline Multiple Types of Updates Stream

There are 2380 updates in this server's database.
There are 14 types of updates that we're going to deal with on the 1st:

1. Superseded: 0
2. Expired: 0
3. Preview: 0
4. Itanium: 0
5. LanguagePacks: Skipped
6. IE7: Skipped
7. IE8: Skipped
8. IE9: Skipped
9. IE10: Skipped
10. Beta: 0
11. Embedded: Skipped
12. NonEnglishUpdates: Skipped
13. ComputerUpdates32bit: Skipped
14. WinXP: Skipped

Decline Multiple Types of Updates Stream Duration: 00:00:00:05
Executing CleanUpWSUSSynchronizationLogs

Id      Name      PSJobTypeName  State      HasMoreData  Location  Command
----      -
21     Job21     BackgroundJob  Completed  True          localhost sqlcmd -S np:\\.pipe\...
Executing ComputerObjectCleanup
Executing WSUSDBMaintenance
23     Job23     BackgroundJob  Completed  True          localhost sqlcmd -S np:\\.pipe\...
Executing WSUSServerCleanupWizard

PS C:\Users\Administrator.SCHULE>
```

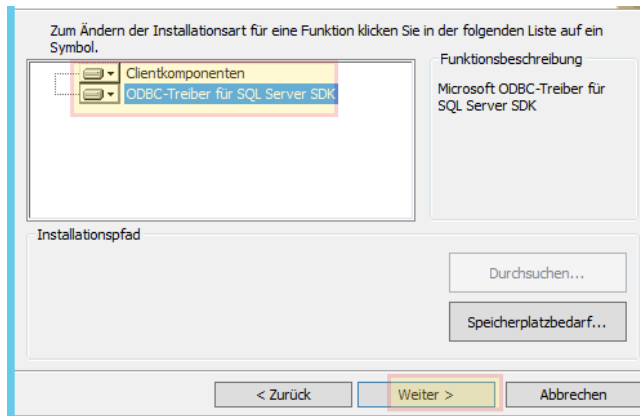
... ein Mail sollte auch noch eintrudeln.

B. Anhang

Fehlermeldung SQLCMD

Wenn während der Ausführung des Scripts eine Fehlermeldung erscheint, dass „Sqlcmd“ nicht ausgeführt werden kann (z.B. bei älteren Serversystemen wie „Server2012R2“), dann muss eventuell Folgendes nachinstalliert werden:

- 1) Powershell aktualisieren über: Windows Management Framework 5.1 – [Download hier](#) (Hinweis: Version anzeigen lassen mit: „**get-host**“)
- 2) SQL-CMD nachinstallieren:
 - a) [Visual C++ Redistributable Packages für Visual Studio 2017](#): vc_redist.x64.exe
 - b) [Microsoft® ODBC Driver 17 for SQL Server®](#): msodbcsql_17.3.1.1_x64.msi



- c) [sqlcmd Utility](#): MsSqlCmdLnUtils.msi

- 3) Modul sqlcmd in Powershell installieren:
 - a) `[Net.ServicePointManager]::SecurityProtocol=[Net.SecurityProtocolType]::Tls12` → Stellt von TLS1.0 auf TLS1.2 um
 - b) `Install-Module -Name SqlServer` → 1x mit „J“ und 1x mit „A“ bestätigen
 - c) **Neustart**
 - d) Ev. auch noch: `Install-Module -Name SqlServer -Force -AllowClobber`

Fehlermeldung bezgl. des Emailversandes erfolgen ...

```
Executing Install-Task
TaskName : Adamj Clean-WSUS
State    : Ready
Ausnahme beim Aufrufen von "Send" mit 1 Argument(en): "Der Server hat eine Protokollverletzung ausgeführt. Die
Serverantwort war: 0GFzc3dvcmlQ8"
In D:\Install\Setup\Server\Tools\WSUS\CleanUP-WSUS.ps1:2960 Zeichen:5
+ $mailer.send((Smessage))
~
+ CategoryInfo          : NotSpecified: (:) [], MethodInvocationException
+ FullyQualifiedErrorId : SntpException
```

... so sollte die Authentifizierung in Zeile 600, 601 rausgenommen werden („“) und ev. die Einstellung in Zeile 597 auf „,\$True“ gesetzt werden

```
575 #####
576 # Mail Report Setup Variables #
577 #####
578
579 # From: address for email notifications (it doesn't have to be a real email address, but if y
580 # your Gmail address). Example: 'WSUS@domain.com' or 'email@gmail.com'
581 [string]$AdamjMailReportEmailFromAddress = 'moser@ptsth.snv.at'
582
583 # To: address for email notifications. Example: 'firstname.lastname@domain.com'
584 [string]$AdamjMailReportEmailToAddress = 'moser@ptsth.snv.at'
585
586 # Subject: of the results email
587 [string]$AdamjMailReportEmailSubject = 'VSM____WSUS Adamj-Script Cleanup Results: Musterschi
588
589 # Enter your SMTP server name. Example: 'mailserver.domain.local' or 'mail.domain.com' or 'sn
590 # Note Gmail Settings: smtp.gmail.com Port:587 SSL:Enabled User:user@gmail.com Password (if y
591 [string]$AdamjMailReportSMTPServer = 'mail.snv.at'
592
593 # Enter your SMTP port number. Example: '25' or '465' (Usually for SSL) or '587' or '1025'
594 [int32]$AdamjMailReportSMTPPort = '25'
595
596 # Do you want to enable SSL communication for your SMTP Server
597 [boolean]$AdamjMailReportSMTPServerEnableSSL = $False
598
599 # Do you need to authenticate to the server? If not leave blank. Note: if your password incl
600 [string]$AdamjMailReportSMTPServerUsername = ''
601 [string]$AdamjMailReportSMTPServerPassword = ''
602
```