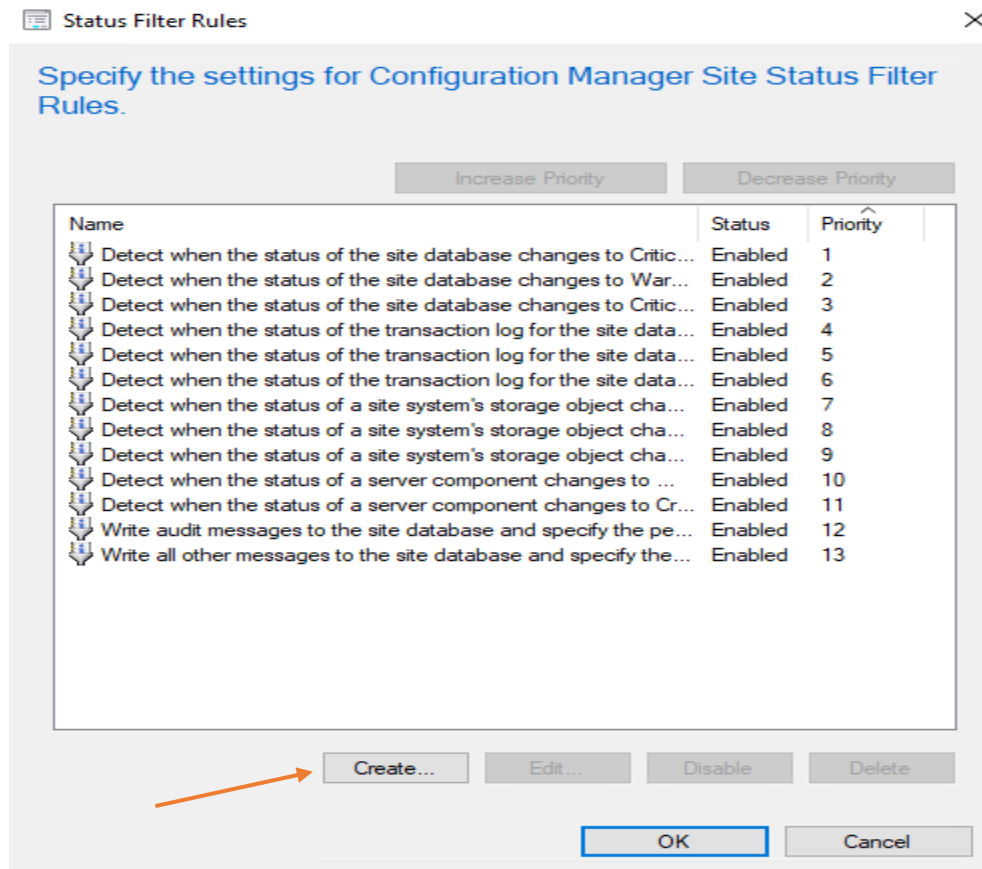
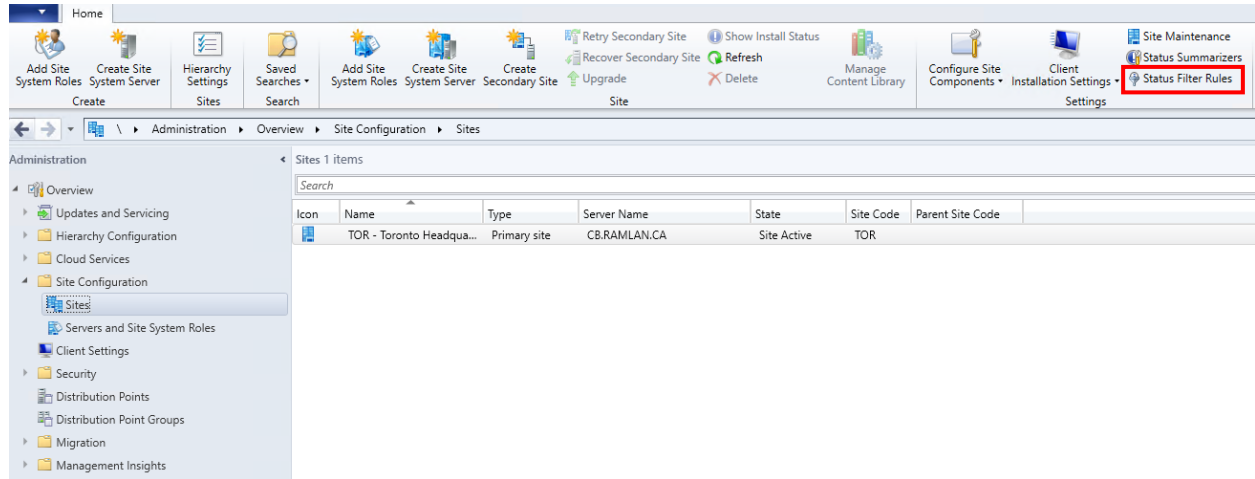


Fully Automate Software Update Maintenance in Configuration Manager

In this post, I will show you how to create Status Filter Rule and execute PowerShell script to perform WSUS cleanup fully automated.

To start with we have to create a Status filter rule as detailed below.





General

General

Actions

Summary

Progress

Completion

Create a new status filter rule



Name: Run Software Update Maintenance

- Source:
- Site code:
- System:
- Component: SMS_WSUS_SYNC_MANAGER
- Message type:
- Severity:
- Message ID: 6702
- Property:
- Property value:

< Previous

Next >

Summary

Cancel



Actions

General

Actions

Summary

Progress

Completion

Specify the actions

You can specify the actions performed when Status Manager receives a status message that matches the specified criteria.

- Write to the Configuration Manager database
- Allow the user to delete messages after how many days:
- Report to the event log
- Replicate to the parent site
- Replication priority:
- Run a program
- Program:
- Do not forward to status summarizers
- Do not process lower-priority status filter rules

< Previous

Next >

Summary

Cancel

```
"C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" -executionpolicy bypass -noninteractive -File "C:\Sources\Scripts\SoftwareUpdateMaintenance\Invoke-DGASoftwareUpdateMaintenance.ps1"
```



Summary

- General
- Actions
- Summary**
- Progress
- Completion

To create the new status filter rule, click Next.

Details:

Filter Properties:

- Source: not specified
- Site code: not specified
- System: not specified
- Component: SMS_WSUS_SYNC_MANAGER
- Message type: not specified
- Severity: not specified
- Message ID: 6702
- Property: not specified
- Property value: not specified

Filter Actions:

- Write to database: No
- Report to event log: No
- Replicate to parent site: No
- Run a program: Yes
- Program command line: "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" - executionpolicy bypass -noninteractive -File "C:\Sources\Scripts\SoftwareUpdate\Maintenance\Invoke-DGASoftwareUpdateMaintenance.ps1"
- Do not forward to summarizers: No
- Do not process lower priority status filter rules: No

To change these settings, click Previous. To apply the settings, click Next.

- < Previous
- Next >**
- Summary
- Cancel



Completion

- General
- Actions
- Summary
- Progress
- Completion**

A new status filter rule with the following properties has been created:



The Create Status Filter Rule Wizard completed successfully

Details:

Success: Filter Properties:

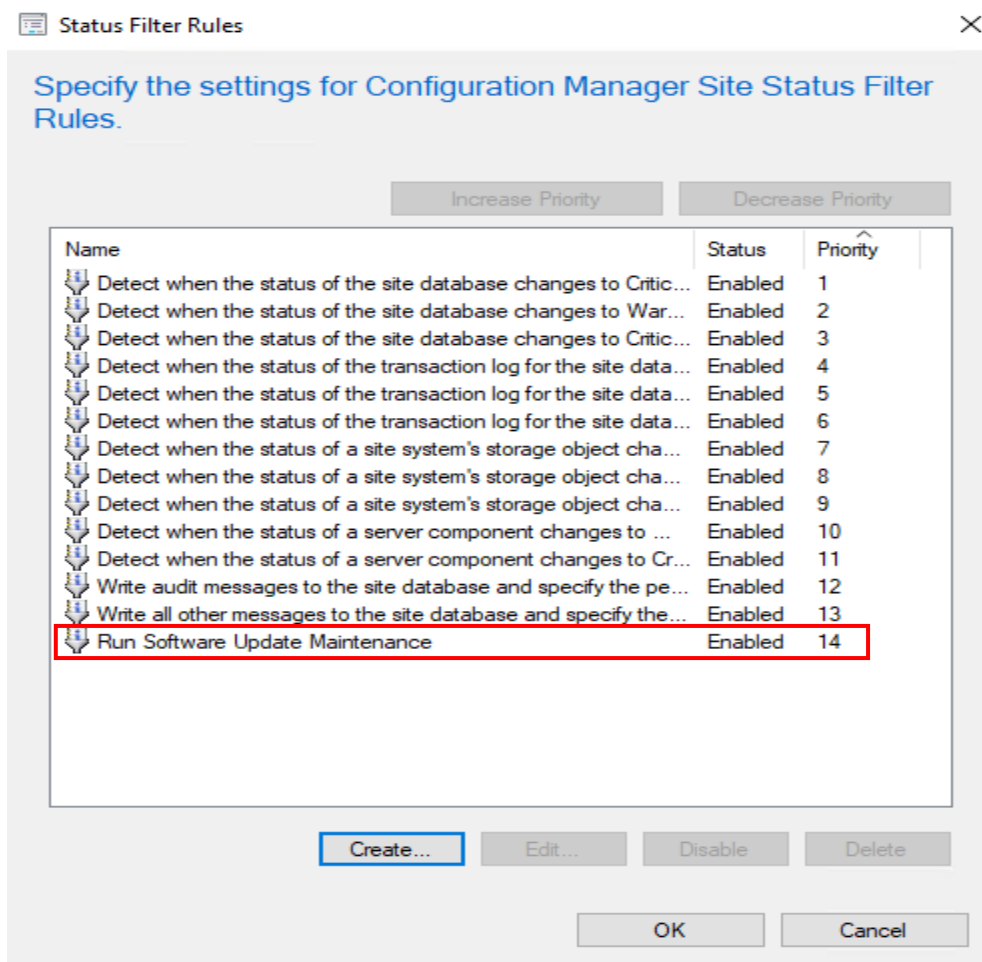
- Source: not specified
- Site code: not specified
- System: not specified
- Component: SMS_WSUS_SYNC_MANAGER
- Message type: not specified
- Severity: not specified
- Message ID: 6702
- Property: not specified
- Property value: not specified

Success: Filter Actions:

- Write to database: No
- Report to event log: No
- Replicate to parent site: No
- Run a program: Yes
- Program command line: "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" - executionpolicy bypass -noninteractive -File "C:\Sources\Scripts\SoftwareUpdate\Maintenance\Invoke-DGASoftwareUpdateMaintenance.ps1"

To exit the wizard, click Close.

- < Previous
- Next >
- Summary
- Close**



The script was obtained from this link - <https://damgoodadmin.com/2017/11/05/fully-automate-software-update-maintenance-in-cm/>

I always credit the person who shared the script to the community. I have copied the script to Primary Site Server.

CB > OS (C:) > Sources > Scripts > SoftwareUpdateMaintenance

Name	Date modified	Type	Size
Plugins	29-Aug-2019 9:58 ...	File folder	
config.ini	10-Dec-2018 8:13 ...	Configuration sett...	2 KB
config_wsus_standalone.ini	20-Dec-2018 8:06 ...	Configuration sett...	1 KB
Invoke-DGASoftwareUpdateMaintenance.ps1	19-Feb-2019 8:32 ...	Windows PowerS...	110 KB
License.txt	10-Dec-2018 8:09 ...	Text Document	35 KB

Below is the test result of the script. Pretty amazing. Saved a lot of space on the server reducing # of active updates.

Thanks

Ram Lan
29th Aug 2019

TEST RESULT:

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Processing Updates
Processing update 5792/15042 - 98642236-17c5-44c0-9cca-dc90d23c5ed9
[ooooooooooooooooooooooooooooooooooooooooooooooooooooo]
39% complete

Directory: C:\Sources\Scripts

Mode                LastWriteTime         Length Name
----                -
d-----          29-Aug-2019   9:58 AM         SoftwareUpdateMaintenance

PS C:\Sources\Scripts> cd .\SoftwareUpdateMaintenance\
PS C:\Sources\Scripts\SoftwareUpdateMaintenance> dir

Directory: C:\Sources\Scripts\SoftwareUpdateMaintenance

Mode                LastWriteTime         Length Name
----                -
d-----          29-Aug-2019   9:58 AM         Plugins
-a-----         10-Dec-2018   8:13 PM         1044 config.ini
-a-----         20-Dec-2018   8:06 PM         769 config_wsus_standalone.ini
-a-----         19-Feb-2019   8:32 PM        112361 Invoke-DGASoftwareUpdateMaintenance.ps1
-a-----         10-Dec-2018   8:09 PM        35821 License.txt

PS C:\Sources\Scripts\SoftwareUpdateMaintenance> .\Invoke-DGASoftwareUpdateMaintenance.ps1
```

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator.RAMLAN> cd..
PS C:\Users> cd..
PS C:\> cd .\Sources\
PS C:\Sources> cd .\Scripts\
PS C:\Sources\Scripts> dir

Directory: C:\Sources\Scripts

Mode                LastWriteTime         Length Name
----                -
d-----          29-Aug-2019   9:58 AM         SoftwareUpdateMaintenance

PS C:\Sources\Scripts> cd .\SoftwareUpdateMaintenance\
PS C:\Sources\Scripts\SoftwareUpdateMaintenance> dir

Directory: C:\Sources\Scripts\SoftwareUpdateMaintenance

Mode                LastWriteTime         Length Name
----                -
d-----          29-Aug-2019   9:58 AM         Plugins
-a-----         10-Dec-2018   8:13 PM         1044 config.ini
-a-----         20-Dec-2018   8:06 PM         769 config_wsus_standalone.ini
-a-----         19-Feb-2019   8:32 PM        112361 Invoke-DGASoftwareUpdateMaintenance.ps1
-a-----         10-Dec-2018   8:09 PM        35821 License.txt

PS C:\Sources\Scripts\SoftwareUpdateMaintenance> .\Invoke-DGASoftwareUpdateMaintenance.ps1
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-15 20:15:08"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-16 18:53:09"".

```

```

Administrator: Windows PowerShell
-a----      20-Dec-2018   8:06 PM             769 config_wsus_standalone.ini
-a----      19-Feb-2019   8:32 PM          112361 Invoke-DGASoftwareUpdateMaintenance.ps1
-a----      10-Dec-2018   8:09 PM             35821 License.txt

PS C:\Sources\Scripts\SoftwareUpdateMaintenance> .\Invoke-DGASoftwareUpdateMaintenance.ps1
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-15 20:15:08"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-16 18:53:09"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-18 18:54:36"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-18 20:20:19"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-19 21:09:45"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-19 21:12:11"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-20 18:53:51"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-20 20:17:07"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-21 20:15:08"".
What if: Performing the operation "Remove" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-22 18:53:45"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-19 21:09:45"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-18 18:54:36"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="EndPoint for Win 7 and Win 8 2019-08-16 18:53:09"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="Windows 10 Updates x64 2019-08-18 12:32:34"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-21 20:15:08"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-20 20:17:07"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-19 21:12:11"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-18 20:20:19"".
What if: Performing the operation "Set" on target "SoftwareUpdateGroup: LocalizedDisplayName="Defender for Servers and Win 10 2019-08-15 20:15:08"".
What if: Performing the operation "Create Directory" on target "Destination: \\cb\Sources\Updates\SQL 2019".
What if: Performing the operation "New" on target "SoftwareUpdateDeploymentPackage: New".
What if: Performing the operation "Create Directory" on target "Destination: \\cb\Sources\Updates\SQL 2019".
What if: Performing the operation "New" on target "SoftwareUpdateDeploymentPackage: New".
The script completed successfully. Review the log file for detailed results.
PS C:\Sources\Scripts\SoftwareUpdateMaintenance>

```

· CB > OS (C:) > Sources > Scripts > SoftwareUpdateMaintenance >

Name	Date modified	Type	Size
Plugins	29-Aug-2019 9:58 AM	File folder	
config.ini	10-Dec-2018 8:13 PM	Configuration sett...	2 KB
config_wsus_standalone.ini	20-Dec-2018 8:06 PM	Configuration sett...	1 KB
Invoke-DGASoftwareUpdateMaintenance.ps1	19-Feb-2019 8:32 PM	Windows PowerS...	110 KB
License.txt	10-Dec-2018 8:09 PM	Text Document	35 KB
UpdateListOutputFile.csv	29-Aug-2019 10:57 AM	Microsoft Excel C...	40 KB
updatemaint.log	29-Aug-2019 10:59 AM	LOG File	119 KB

When you run the script, it creates 2 files for detailed analysis.



Log Text

NOTE: The WhatIf flag was given so the below summary shows what would have happened. No changes were made.

Summary:

=====

All Updates = 15042

All Declined Updates = 10137

All Updates Except Declined = 4905

All Superseded Updates = 0

Superseded Updates Declined = 0

Updates Declined by Title for *Version Next* = 12

Updates Declined by Title for *Security Only* = 180

Updates Declined by Title for *Preview of* = 8

Updates Declined by Title for *Itanium* = 0

Updates Declined by Title for *ia64* = 0

Updates Declined by Title for *Beta* = 2

Updates Declined by Title for (Preview)* = 0

Updates Declined by Title (Total) = 202

Updates Declined by Plugin (Total Unique) = 0

Total Newly Declined Updates = 202

Total Newly Deleted Updates = 0

Total Active Updates = 4703

Total Updates = 15042

=====

Saved 10339 declined updates to the data file filesystem::C:\Sources\Scripts\SoftwareUpdateMaintenance\updatemaint.dat.

Software update point synchronization states confirmed.

Starting the WSUS cleanup wizard.

Finished the WSUS cleanup wizard.

Software update point synchronization states confirmed.

Initiated a full software update sync and waiting one minute for it to start.

Software update point synchronization states confirmed.

Cleaning the Software Update Groups.

Cleaning the Defender for Servers and Win 10 2019-08-15 20:15:08 software update group.

Removing the 'Defender for Servers and Win 10 2019-08-15 20:15:08' software update group because it is empty.

Cleaning the EndPoint for Win 7 and Win 8 2019-08-16 18:53:09 software update group.

Removing the 'EndPoint for Win 7 and Win 8 2019-08-16 18:53:09' software update group because it is empty.

Cleaning the Windows 7 Updates x64 2019-08-18 05:46:31 software update group.

Date/Time: 29-Aug-2019 10:59:21 AM **Component:** Invoke-DGASoftwareUpdateMaintenan

Thread: 3348 (0xD14) **Source:**

#####

