# Content

Contents

[Content 1](#_Toc98933389)

[Set up basic performance monitoring for Windows 10 1](#_Toc98933390)

[Set up performance monitoring for SQL2012 1](#_Toc98933391)

[Set up performance monitoring for SQL2005 2](#_Toc98933392)

[Zip file content 3](#_Toc98933393)

# Set up performance monitoring for SQL Server 2019 (v15) using defaults

1. Extract all files in the zip archive to a folder, for example C:\temp
2. Start *PowerShell* as *Administrator*.
3. Type “cd C:\temp” and press *Enter*.
4. Type “Set-ExecutionPolicy RemoteSigned -Force” and press *Enter*.
5. Type “.\copy-scripts.ps1” and press *Enter*.
6. If you are setting up monitoring for the default instance, perform 8a (and not 8b).   
   If you are setting up monitoring for a named instance, perform 8b (and not 8a).
   1. Type “.\Make-PerfmonTemplate.ps1 –Servername <MyServer> -Template PerformanceMonitorTemplate\_SQL2019.xml” and press *Enter*. Replace <MyServer> with the name of the server (the individual node name if cluster).  
      Ex: .\Make-PerfmonTemplate.ps1 –Servername (Get-ChildItem env:COMPUTERNAME).Value -Template PerformanceMonitorTemplate\_SQL2015.xml
   2. Type “.\Make-PerfmonTemplate.ps1 –Servername <MyServer> -InstanceName <MyInstanceName> -Template PerformanceMonitorTemplate\_SQL2019.xml” and press *Enter*. Replace <MyServer> with the name of the server (the individual node name if cluster) and <MyInstanceName> with the name of the database instance you want to monitor.
7. Start *Performance Monitor*.
8. Right click *Performance->Data Collector Sets->User Defined* and select *New->Data Collector Set*.
9. Type “*SQL Server Performance Trace <InstanceName>*” as *Name* and select *Create from a template* and click *Next*. Replace or remove “<*InstanceName>”* depending on if your are setting it up for the default instance or a named instance.
10. Click *Browse…*.
11. Browse for *<MyServer>-PerfmonTemplate.xml* and click *Open*.
12. Click *Finish*.
13. Type “.\schedule-the-tasks.ps1” in the *PowerShell* window and press *Enter*.

Done.

# Set up performance monitoring for SQL Server 2019 (v15) with options

1. Extract all files in the zip archive to a folder, for example C:\temp
2. If you need to change counter sampling interval -> open *PerformanceMonitorTemplate.xml* in a text editor and find *<SampleInterval>30</SampleInterval>* and adjust it accordingly. The value is in seconds.
3. If you need to change destination of the trace files the following paths needs/can to be changed:
   1. (optional change) copy-scripts.ps1, line 1 and 2.
   2. (mandatory change) PerformanceMonitorTemplate.xml, line 14, 16-17 (<LatestOutputLocation>, <OutputLocation>, <RootPath>)
   3. (mandatory change) Remove old logs - Scheduled Task.xml, line 44 (<Arguments>)
   4. (mandatory change) Zip Perfmon Logs - Scheduled Task.xml, line 44 (<Arguments>)
4. Start *PowerShell* as *Administrator*.
5. Type “cd C:\temp” and press *Enter*.
6. Type “Set-ExecutionPolicy RemoteSigned -Force” and press *Enter*.
7. Type “.\copy-scripts.ps1” and press *Enter*.
8. If you are setting up monitoring for the default instance, perform 8a (and not 8b).   
   If you are setting up monitoring for a named instance, perform 8b (and not 8a).
   1. Type “.\Make-PerfmonTemplate.ps1 –Servername <MyServer> -Template PerformanceMonitorTemplate\_SQL2012.xml” and press *Enter*. Replace <MyServer> with the name of the server (the individual node name if cluster).  
      Ex: .\Make-PerfmonTemplate.ps1 –Servername (Get-ChildItem env:COMPUTERNAME).Value -Template PerformanceMonitorTemplate\_SQL2015.xml
   2. Type “.\Make-PerfmonTemplate.ps1 –Servername <MyServer> -InstanceName <MyInstanceName> -Template PerformanceMonitorTemplate\_SQL2012.xml” and press *Enter*. Replace <MyServer> with the name of the server (the individual node name if cluster) and <MyInstanceName> with the name of the database instance you want to monitor.
9. Start *Performance Monitor*.
10. Right click *Performance->Data Collector Sets->User Defined* and select *New->Data Collector Set*.
11. Type “*SQL Server Performance Analyzer Monitor*” as *Name* and select *Create from a template* and click *Next*.
12. Click *Browse…*.
13. Browse for *<MyServer>-PerfmonTemplate.xml* and click *Open*.
14. Click *Finish*.
15. Type “.\schedule-the-tasks.ps1” in the *PowerShell* window and press *Enter*.

Done.

# Zip file content

|  |  |
| --- | --- |
| **Filename** | **Description** |
| copy-scripts.ps1 | Copies *remove-old-logs.zip* and *zip-ogs.ps1* to *C:\PerfLogs*. |
| remove-old-logs.ps1 | Scripts for removing old trace logs. |
| zip-logs.ps1 | Script for zipping trace log files. |
| Make-PerfmonTemplate.ps1 | Creates Performance Monitor template files for the target environment to be used when setting up the trace. |
| PerformanceMonitorTemplate\_\*.xml,  Perfmon-template-w10-basic.xml | Perfmon template file used to create the target environment performance monitor template to use when setting up the trace. |
| Remove old logs - Scheduled Task.xml | Scheduled task template for executing *remove-old-logs.ps1*. By default it removes zip-files in the *c:\PerfLogs\Admin\SQL Server Performance Analyzer Monitor* folder which are older than 60 days.  This task executes once a day. |
| schedule-the-tasks.bat | Batch script for scheduling the tasks:   * Remove old logs * SQL Server Performance Analyzer Monitor * SQL Server Performance Analyzer Monitor Restart |
| SQL Server Performance Analyzer Monitor - Scheduled Task.xml | Scheduled task template for starting the perfmon trace. This task executes once an hour and after boot. In practice it means that if the trace was stopped, this job will start it again within the hour. |
| SQL Server Performance Analyzer Monitor Restart - Scheduled Task.xml | Scheduled task template for restarting the perfmon trace. In some cases it has shown that if the server loses connection with SAN drives, the trace needs to be restarted to start monitoring the drives again. This script restarts the trace at midnight every day. |
| Zip Perfmon Logs - Scheduled Task.xml | Scheduled task template for executing *zip- logs.ps1*. By default it compresses \*.trc files in the *c:\PerfLogs\Admin\SQL Server Performance Analyzer Monitor* folder which are older than 7 days.  This task executes once a day. |

# Archived versions

## Set up performance monitoring for SQL Server 2012 (v11)

1. Extract all files in the zip archive to a folder, for example C:\temp
2. If you need to change counter sampling interval -> open *PerformanceMonitorTemplate.xml* in a text editor and find *<SampleInterval>30</SampleInterval>* and adjust it accordingly. The value is in seconds.
3. If you need to change destination of the trace files the following paths needs/can to be changed:
   1. (optional change) copy-scripts.ps1, line 1 and 2.
   2. (mandatory change) PerformanceMonitorTemplate.xml, line 14, 16-17 (<LatestOutputLocation>, <OutputLocation>, <RootPath>)
   3. (mandatory change) Remove old logs - Scheduled Task.xml, line 44 (<Arguments>)
   4. (mandatory change) Zip Perfmon Logs - Scheduled Task.xml, line 44 (<Arguments>)
4. Start *PowerShell* as *Administrator*.
5. Type “cd C:\temp” and press *Enter*.
6. Type “Set-ExecutionPolicy RemoteSigned -Force” and press *Enter*.
7. Type “.\copy-scripts.ps1” and press *Enter*.
8. If you are setting up monitoring for the default instance, perform 8a (and not 8b).   
   If you are setting up monitoring for a named instance, perform 8b (and not 8a).
   1. Type “.\Make-PerfmonTemplate.ps1 –Servername <MyServer> -Template PerformanceMonitorTemplate\_SQL2012.xml” and press *Enter*. Replace <MyServer> with the name of the server (the individual node name if cluster).  
      Ex: .\Make-PerfmonTemplate.ps1 –Servername (Get-ChildItem env:COMPUTERNAME).Value -Template PerformanceMonitorTemplate\_SQL2015.xml
   2. Type “.\Make-PerfmonTemplate.ps1 –Servername <MyServer> -InstanceName <MyInstanceName> -Template PerformanceMonitorTemplate\_SQL2012.xml” and press *Enter*. Replace <MyServer> with the name of the server (the individual node name if cluster) and <MyInstanceName> with the name of the database instance you want to monitor.
9. Start *Performance Monitor*.
10. Right click *Performance->Data Collector Sets->User Defined* and select *New->Data Collector Set*.
11. Type “*SQL Server Performance Analyzer Monitor*” as *Name* and select *Create from a template* and click *Next*.
12. Click *Browse…*.
13. Browse for *<MyServer>-PerfmonTemplate.xml* and click *Open*.
14. Click *Finish*.
15. Type “.\schedule-the-tasks.ps1” in the *PowerShell* window and press *Enter*.
16. Done.

## Set up performance monitoring for SQL2005

1. Extract all files in the zip archive to a folder, for example C:\temp
2. If you need to change counter sampling interval -> open *PerformanceMonitorTemplate.xml* in a text editor and find *<SampleInterval>30</SampleInterval>* and adjust it accordingly. The value is in seconds.
3. If you need to change destination of the trace files the following paths needs/can to be changed:
   1. (optional change) copy-scripts.ps1, line 1 and 2.
   2. (mandatory change) PerformanceMonitorTemplate.xml, line 14, 16-17 (<LatestOutputLocation>, <OutputLocation>, <RootPath>)
   3. (mandatory change) Remove old logs - Scheduled Task.xml, line 44 (<Arguments>)
   4. (mandatory change) Zip Perfmon Logs - Scheduled Task.xml, line 44 (<Arguments>)
4. Start *PowerShell* as *Administrator*.
5. Type “cd C:\temp” and press *Enter*.
6. Type “Set-ExecutionPolicy RemoteSigned -Force” and press *Enter*.
7. Type “.\copy-scripts.ps1” and press *Enter*.
8. Type “.\Make-PerfmonTemplate.ps1 –Servername <MyServer> -Template PerformanceMonitorTemplate\_SQL2005.xml” and press *Enter*. Replace <MyServer> with the name of the server (the individual node name if cluster).
9. Start *Performance Monitor*.
10. Right click *Performance->Data Collector Sets->User Defined* and select *New->Data Collector Set*.
11. Type “*SQL Server Performance Analyzer Monitor*” as *Name* and select *Create from a template* and click *Next*.
12. Click *Browse…*.
13. Browse for *<MyServer>-PerfmonTemplate.xml* and click *Open*.
14. Click *Finish*.
15. Type “.\schedule-the-tasks.bat” in the *PowerShell* window and press *Enter*.
16. Done.

## Set up basic performance monitoring for Windows 10

1. Extract all files in the zip archive(Monitoring.w10.zip) to a folder, for example C:\temp
2. <Optional> If you need to change counter sampling interval -> open *perfmon-template-w10-basic.xml* in a text editor and find *<SampleInterval>5</SampleInterval>* and adjust it accordingly. The value is in seconds.
3. <Optional> If you need to change destination of the trace files, the following paths need to and can be changed (*it defaults to C:\PerfLogs\\**). Otherwise, skip this step.:
   1. (optional change) *copy-scripts.ps1*, line 1 and 4.
   2. (mandatory change) *perfmon-template-w10-basic.xml*, line 14, 16-17 (<LatestOutputLocation>, <OutputLocation>, <RootPath>)
   3. (mandatory change) Remove old logs - Scheduled Task.xml, line 44 (<Arguments>)
   4. (mandatory change) Zip Perfmon Logs - Scheduled Task.xml, line 44 (<Arguments>)
4. Start *PowerShell* as *Administrator*.
5. Type “cd C:\temp” (*or wherever you unzipped the file*) and press *Enter*.
6. Type “Set-ExecutionPolicy RemoteSigned -Force” and press *Enter*.
7. Type “.\copy-scripts.ps1” and press *Enter*.
8. Type “.\Make-PerfmonTemplate.ps1 -Template perfmon-template-w10-basic.xml” and press *Enter*.
9. Start *Performance Monitor*.
10. Right click *Performance->Data Collector Sets->User Defined* and select *New->Data Collector Set*.
11. Type “*Windows 10 basic trace*” as *Name* and select *Create from a template* and click *Next*.
12. Click *Browse…*.
13. Browse for *<MyServer>-PerfmonTemplate.xml* and click *Open*.
14. Click *Finish*.
15. <Optional> If you want to have the trace to run continuously, then perform this additional step:   
    Type “.\schedule-the-tasks.ps1” in the *PowerShell* window and press *Enter*.
16. Done.