DSS012 - Data Sync - How to collect and analyse performance of on - premise Data Sync member

Last updated by | Keith Elmore | Apr 5, 2021 at 7:57 AM PDT

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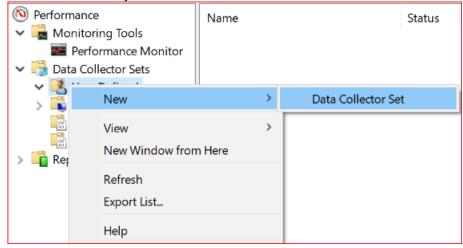
- Collect Performance monitor log while reproducing the iss...
 - Below is a customer- ready action plan
- Analyze collected Performance Counters

Collect Performance monitor log while reproducing the issue.

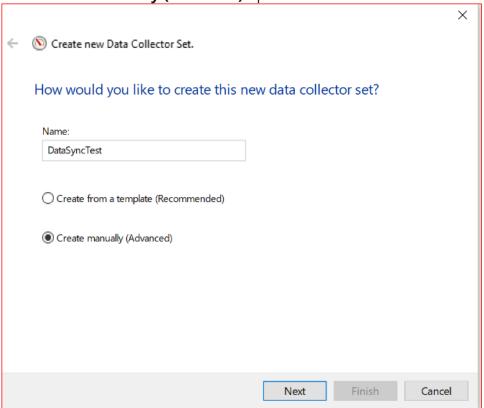
Below is a customer- ready action plan

1. Open performance monitor. Start -> Run -> perfmon

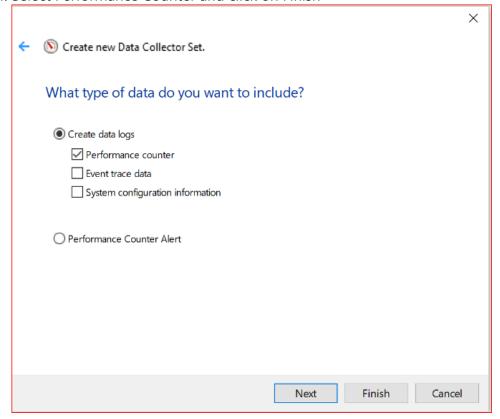
2. Create new DataSyncTest Data Collector Set



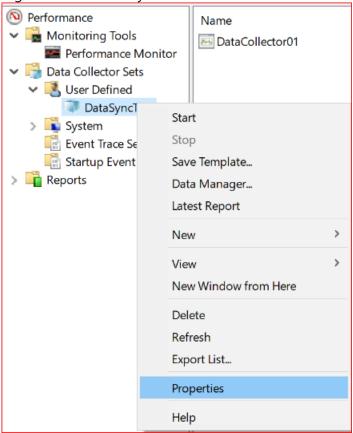
3. Select **Create manually (Advanced)** option and click Next



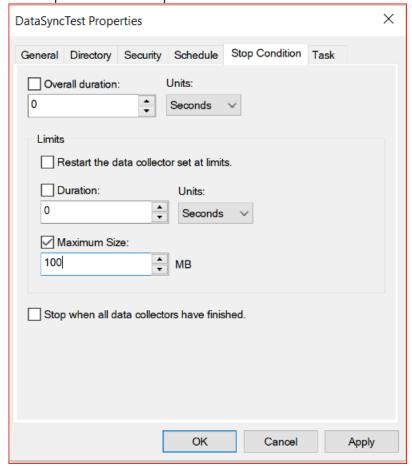
4. Select Performance Counter and click on Finish



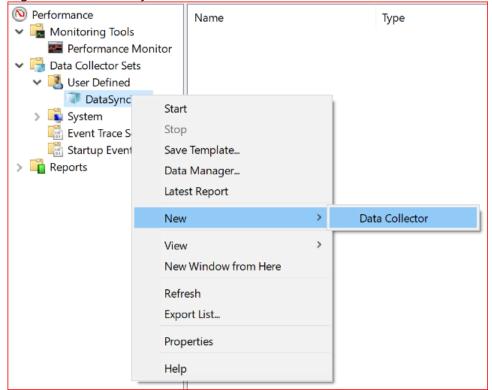
5. Right-Click on DataSyncTest data collector and select Properties



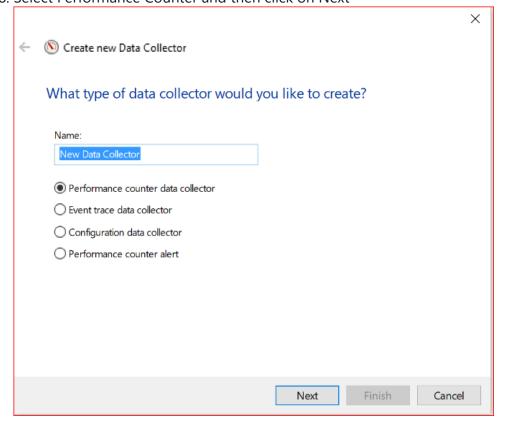
6. On Stop Condition Tab please select Maximum size and click OK.



7. Right-click on DataSyncTest data collector and select New -> Data Collector



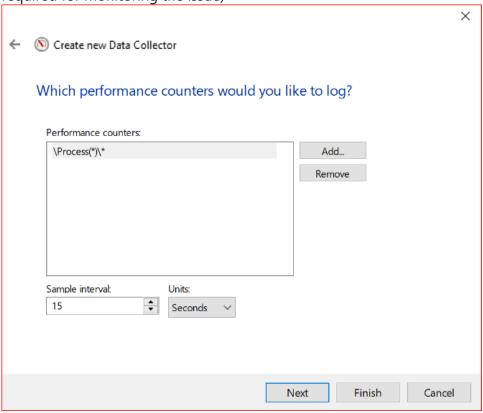
8. Select Performance Counter and then click on Next



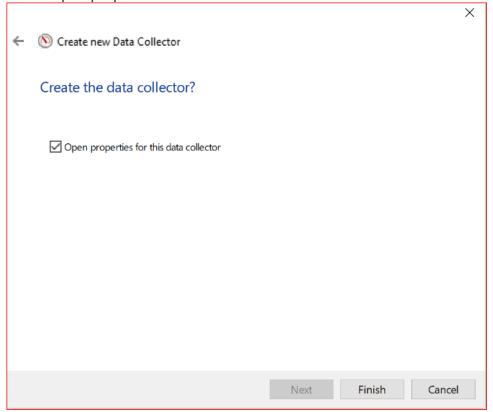
- 9. Add following Performance Counters and for each Counters select the options "all counters" and "all instances"
- all SQL Server counters (all counters that begin with Sqlserver or MSSQL\$...)
- Logical disk

- physical disk
- processor
- system
- memory
- process

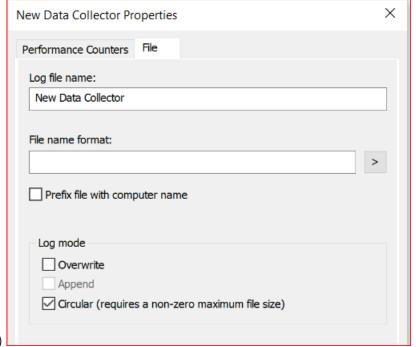
10. Click on Next (on the screenshot below only one Performance counter is selected, please select counters required for monitoring the issue)



11. Select Open properties and click on Finish

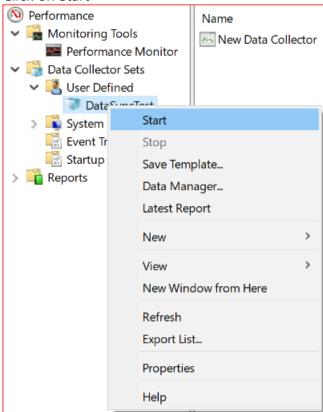


12. On the File Tab select log mode Circular. (Circular Trace File Overwrites old data with new data when the

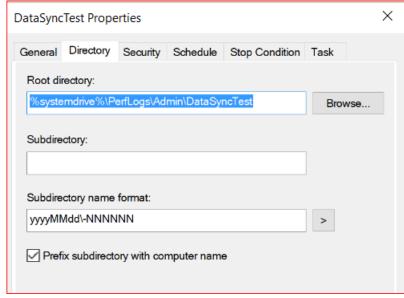


file reaches a specified size limit.)

13. Click on Start



- 14. Reproduce the issue
- 15. Stop the trace and send it to us. You can find path to the file in DataSyncTest properties

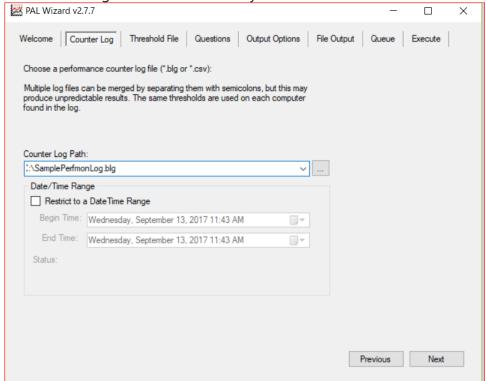


16. Please send also the latest SQL Server ERRORLOG related to the timeframe of the issue.

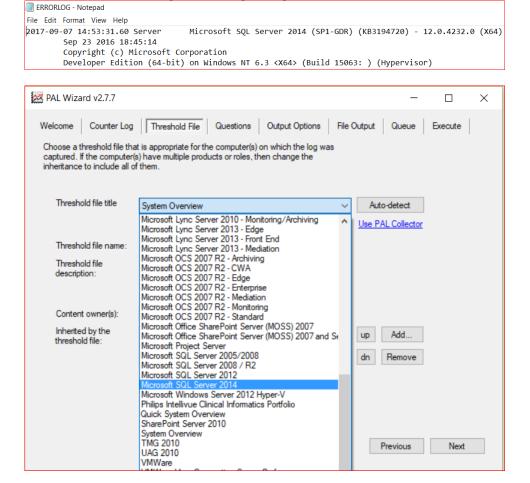
Analyze collected Performance Counters

1. Download PAL tool from https://github.com/clinthuffman/PAL download https://github.com/clinthuffman/PAL download https://github.com/clinthuffman/PAL download https://github.com/clinthuffman/PAL download download

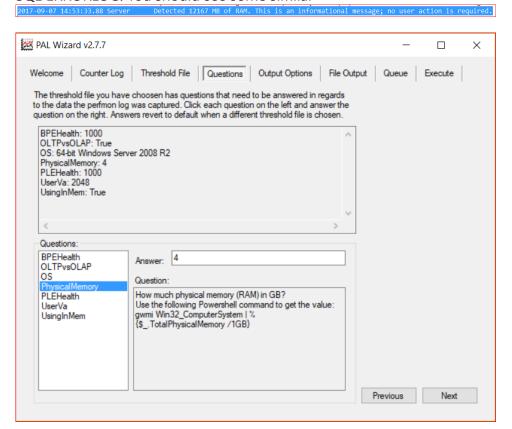
2. On Counter Log TAB select file sent by the customer and click Next



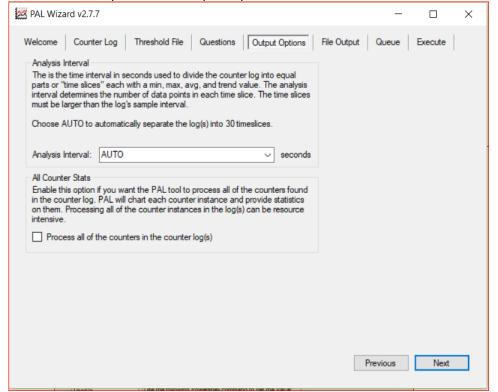
3. On Threshold File TAB select SQL Server version of the on-premise Data Sync member and click Next. NOTE: You can check the file version in the ERRORLOG file sent by the customer. You should see something similar to the following at the beginning of the file.



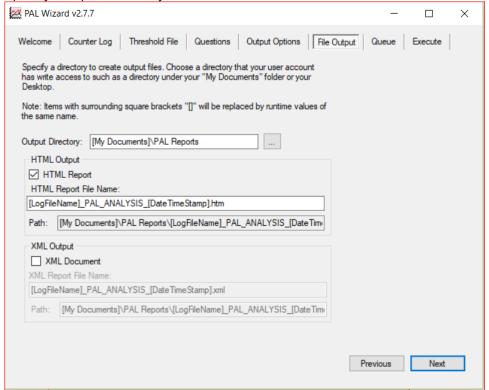
4. Provide additional information about the on-premise server in Question TAB. You can find Memory value in SQL ERRORLOG. You should see some similar



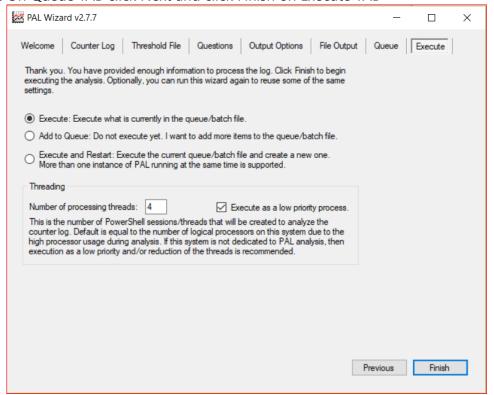
5. Leave Default options on Output Options TAB and click Next



Specify Output directory and click Next



7. On Queue TAB click Next and click Finish on Execute TAB



- 8. Wait when the HTML report is generated. It may take several minutes, depending on the source file size.
- 9. The report is self-explaining, you will see counters description, graphs . For example,

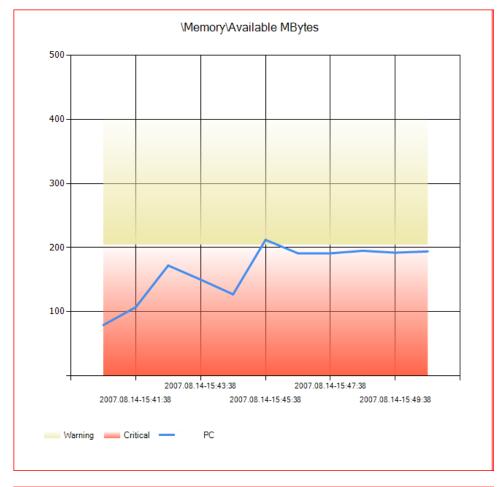
Memory Available MBytes

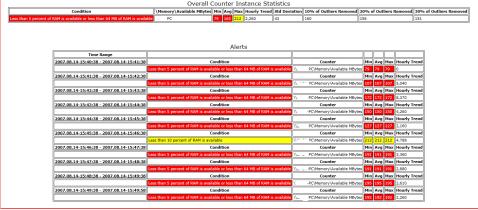
Description: Available MBytes is the amount of physical RAM, in megabytes, immediately available for

allocation to a process or for system use. It is equal to the sum of memory assigned to the standby (cached), free and zero page lists. If this counter is low, then the computer is running low on physical memory (RAM). This analysis will alert a Warning if this counter's value is less than 10% of the physical memory installed and will alert a critical if this counter's value is less than 100 MB.

References:

- PerfGuide: Low Available RAM
- Chapter 8: Physical Memory of the Windows Performance Analysis Field Guide by Clint Huffman





How good have you found this content?

