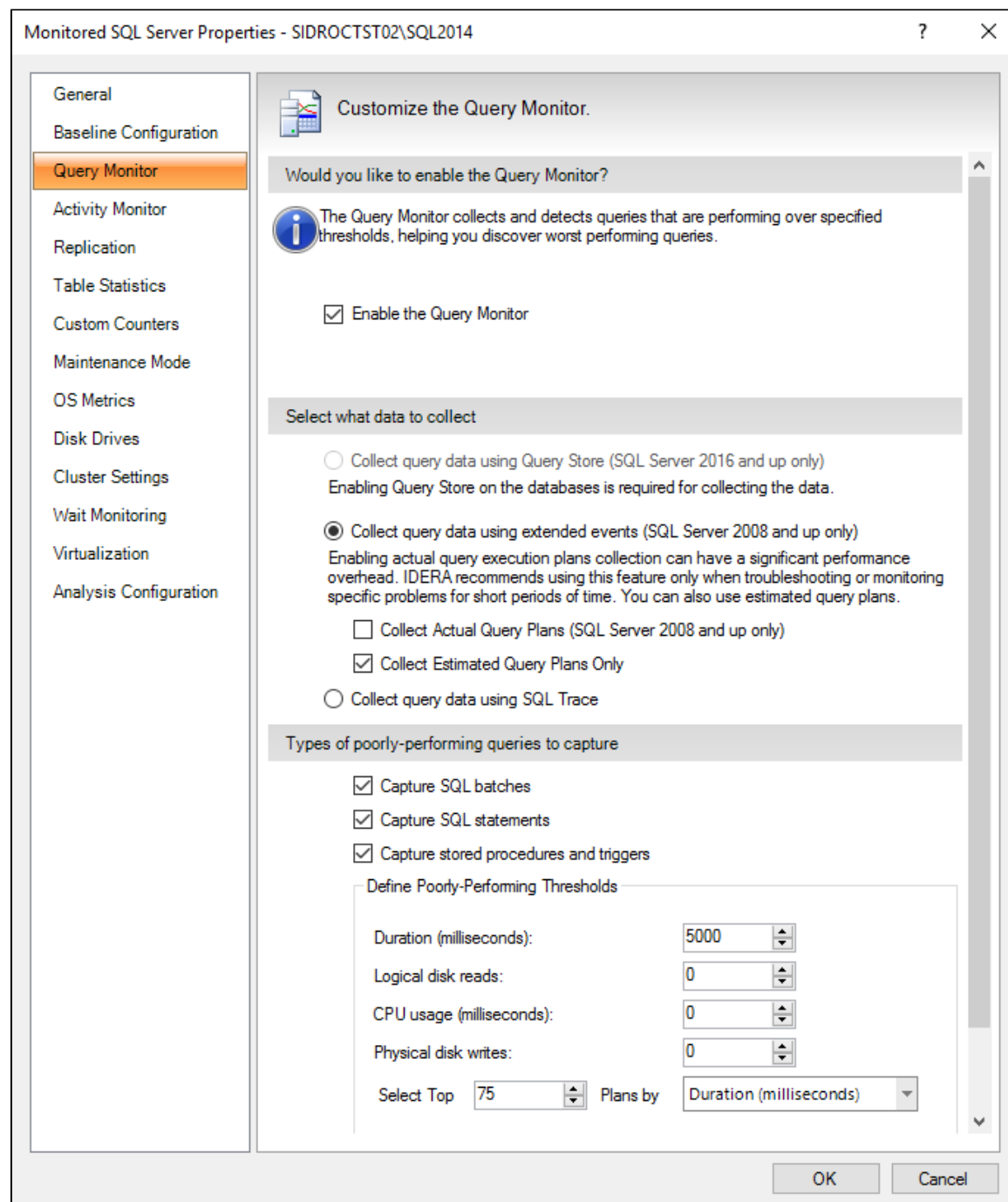


Set query monitor options


The Query Monitor is a standard SQL Server trace that collects all the events that occur on your SQL Server instance over a period of time. You can enable this option if you experience query timeouts or other performance issues.

 By default, the Query Monitor option is not enabled.




Monitored SQL Server Properties - SIDROCTST02\SQL2014

General
Baseline Configuration
Query Monitor
Activity Monitor
Replication
Table Statistics
Custom Counters
Maintenance Mode
OS Metrics
Disk Drives
Cluster Settings
Wait Monitoring
Virtualization
Analysis Configuration

 Customize the Query Monitor.

Would you like to enable the Query Monitor?

 The Query Monitor collects and detects queries that are performing over specified thresholds, helping you discover worst performing queries.

☒ Enable the Query Monitor

Select what data to collect

☐ Collect query data using Query Store (SQL Server 2016 and up only)
Enabling Query Store on the databases is required for collecting the data.

☒ Collect query data using extended events (SQL Server 2008 and up only)
Enabling actual query execution plans collection can have a significant performance overhead. IDERA recommends using this feature only when troubleshooting or monitoring specific problems for short periods of time. You can also use estimated query plans.

☐ Collect Actual Query Plans (SQL Server 2008 and up only)

☒ Collect Estimated Query Plans Only

☐ Collect query data using SQL Trace

Types of poorly-performing queries to capture

☒ Capture SQL batches

☒ Capture SQL statements

☒ Capture stored procedures and triggers

Define Poorly-Performing Thresholds

Duration (milliseconds): 5000

Logical disk reads: 0

CPU usage (milliseconds): 0

Physical disk writes: 0

Select Top 75 Plans by Duration (milliseconds)

OK Cancel

The Query Monitor window allows you to enable or disable query monitoring using the **Enable the Query Monitor** check box. You can also select the settings that are used:

- Query data using Query Store
- Query data using extended events
- Capturing poorly-performing queries

Query data using Query Store

Collect query data using Query Store for instances running SQL Server 2016 or higher.



SQL Diagnostic Manager does not change Query Store selections at this time. Try the [IDERA Query Store Optimizer](#) for more on Query Store improvements.

Query data using extended events

You can select to collect query data using Extended Events (Collect query data using extended events radio button) or SQL Trace (Collect query data using SQL Trace radio button). For instances running SQL Server 2008 or higher, the Query Monitor uses by default Extended Events. First introduced in SQL Server 2008, Extended Events provide a new mechanism to capture information about events inside the Database Engine and diagnose performance problems. This functionality is highly efficient and lightweight. For more information about using Extended Events, see the Microsoft document, [Extended Events](#).



To capture query data for monitored pre-SQL Server 2008 instances, enable the SQL Trace collection option. Enabling this option can degrade performance on your SQL Server.

To collect query execution plans, click **Collect query data using extended events (SQL Server 2008 and up only)** in the Query Monitor window. By default, this option enables the collection of estimated query plans only. If you would like to collect actual query plans instead, select the **Collect Actual Query Plans (SQL Server 2008 and up only)** check box.



Enabling actual query execution plans collection can have a significant performance overhead, so IDERA recommends using this feature only when troubleshooting or monitoring specific problems for short periods of time. You can also use estimated query plans.

Capturing poorly-performing queries

The types of poorly-performing queries to capture include:

- SQL batches
- SQL Statements
- Stored procedures and triggers

You can also define specific poorly-performing thresholds such as duration, logical disk reads, CPU usage, physical disk writes, and select up to 1000 plans defined by these thresholds.

Diagnosing specific performance issues

Select the events that help you best diagnose the specific issues occurring with query performance on your SQL Server instance. For example, you may want to monitor queries taking a long time to complete, requiring heavy CPU usage, and causing a large number of logical disk reads or physical disk writes, which indicates a memory issue.

SQL Diagnostic Manager uses tracing to locate and flag worst-performing T-SQL. SQL Diagnostic Manager cannot display binary data in a readable format. If you captured DTS packages, you may see unreadable characters in the Command field of the Tree View. Capturing DTS data may also adversely affect the performance of the SQL Server or Data Warehouse you are monitoring.

Access the Query Monitor tab

You can access the Query Monitor tab of the Monitored SQL Server Properties window by right-clicking the appropriate SQL Server instance, and then selecting **Properties**. Click **Query Monitor** when SQL Diagnostic Manager displays the Monitored SQL Server Properties window.