ReferenceTSG_Capture_query_execution_planandruntimestatistics

Last updated by | Holger Linke | Aug 17, 2022 at 1:38 AM PDT

Contents

Issue

This is a reference TSG that help you to capture query execution plan and run time statistics

Investigation/Analysis

UPDATE 2022-08-17

Use the steps in the following article instead for a modern and more flexible approach:
How to Capture the Actual Execution Plan

The scenarios and steps below are still valid, but have some important limitations:

- The customer needs to extract and run the query external from the application
- Scenario 3 is only capturing in-flight queries with transient, incomplete statistics).

Scenario 1: Capturing execution plan. When to use : If the query eventually finishes

When you capture query plan, it is also important to capture runtime statistics. Use SSMS, the following allows you to capture query execution plan and runtime statistics.Note that the runtime statistics for IO and time is captured in "message" tab of SSMS. So you will need to save it separately from query execution plan.

```
SET STATISTICS XML ON;
set statistics time on
set statistics io on
go
<exec query and let if finish>
go
SET STATISTICS XML Off
set statistics time off
set statistics io off
```

Scenario 2: Live plan Statistics - When customer tells you that a query never finishes, runs hours or days

Note if a query can finish within reasonable amount of time, use the steps mentioned above to capture query execution plan and run time statistics. If not,see Live query statistics ☒ make sure to wait for long enough time before stop it.

Scenario 3: Capture partial execution plan for an in-flight query when a query is running but not finishing

How to use: sys.dm_exec_query_statistics_xml ☒

Internal Links

NA

Root Cause Classification

Workload performance/User issue/error/Specific query slow

How good have you found this content?