

CLR_workload_causing_Out_Of_Memory_errors

Last updated by | Peter Hewitt | Dec 22, 2022 at 2:49 AM PST

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Issue

SQL Database experiences out of memory (OOM) issues due to CLR workloads.

Investigation/Analysis

The SQL Database can become unavailable, returning errors such as:

Database '<db_name>' on server '<server_name>' is not currently available. Please retry the connection later. If the problem persists, contact customer support, and provide them the session tracing ID of '<tracking_id>'. (.Net SqlClient Data Provider)

In ASC and Kusto the database will show as hitting out of memory. Example error messages:

2021-04-27 17:54:10.78 Server	Error: 17300, Severity: 16, State: 1.	2021-04-27 17:54:10.78 Server	[F
2021-04-27 17:58:14.08 Logon	Error: 17803, Severity: 20, State: 15.	2021-04-27 17:58:14.08 Logon	[
2021-04-27 17:58:14.08 Logon	Error: 17803, Severity: 20, State: 15.	2021-04-27 17:58:14.08 Logon	[
2021-04-27 17:58:14.25 spid85	Error: 701, Severity: 17, State: 123.	2021-04-27 17:58:14.25 spid85	Th

Mitigation

Confirm with the customer if they are using CLR workloads. The mitigation is to scale the database to a higher service tier, or increase the number of minimum VCores to be more than 1.5 cores, particularly if the workload is using non shrinkable memory components like CLR, Memory Grants (Sql Reservations).

Public Doc Reference

[sys.dm_os_memory_clerks \(Transact-SQL\)](#) 

Internal Reference

[IcM 238608868: Database is not available](#) 

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