

SQL Sentry Portal Deadlocks

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✔ **Applies to the following products and features:** The on-premises SQL Sentry [Portal](#) feature for SQL Sentry. See the [Getting Started with SQL Sentry Portal](#) article for more details.

Deadlocks

The **Deadlocks** view provides details about deadlocks within your monitored environment. Use it to identify and fix deadlock issues on your monitored servers.

Deadlocks

Time	Victim SPID [acid]	Victim Host	Victim Application	Victim Database	Statement
2020-08-14 09:11 AM	219 [0]	Q-REGRESSION	SQLAgent - TSQL JobStep (Job 0xB0367F3CF9EF4F4583...	Test database	set transaction isolation level serializable use [Test databa...
2020-08-14 06:11 AM	218 [0]	Q-REGRESSION	SentryOne 18.5-DefragEngine	master	ALTER INDEX [PK_PerformanceAnalysisQuickTraceProc...
2020-08-14 03:11 AM	180 [0]	Q-REGRESSION	SQLAgent - TSQL JobStep (Job 0xB0367F3CF9EF4F4583...	Test database	set transaction isolation level serializable use [Test databa...
2020-08-14 02:20 AM	108 [0]	Q-REGRESSION	.Net SqlClient Data Provider	SQLSentry	(@ID bigint)UPDATE PerformanceAnalysisDbeRequests ...
2020-08-13 11:53 PM	56 [0]	Q-REGRESSION	.Net SqlClient Data Provider	SQLSentry	SELECT TOP 1 @PerformanceAnalysisTraceCachedPlan...

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Note: Deadlocks for Amazon RDS are not supported in **SentryOne Monitor** or the on-premises SQL Sentry [Portal](#).

Deadlock Diagram

The deadlock diagram is built from the captured deadlock XML. The **victim**, **process**, and **resource** (e.g. *Object Lock*) nodes are represented, as well as any relationships that exist between them.

Note:

- Resize the deadlock diagram using the magnifying and minimizing glass icons, and reset it to the original if needed.
- Select different nodes on the diagram to change the information displayed on the screen.
 - 🔍 Use the expand button to open the deadlock diagram and XML in a full window.
- Drag and drop deadlock files into the deadlock diagram space to get a diagram and view additional information.

DEADLOCK DIAGRAM DEADLOCK XML

SPID [ecid]	Host	Application	Database	Login	Log Used	Deadlock Priority	Wait Time	Lock Mode	Isolation Level	Trans Name
56 [0]	Q-REGRESSION	.Net SqlClient Data Provider	SQLSentry	Administrator	0	0	2,408	S	read committed (2)	user_transaction

Node Details

Call Stack

Object	Line Number	Text Data
SQLSentry.dbo.SetPerfor...	31	SELECT TOP 1 @PerformanceAnalysisTraceCachedPlansID=ID, @PerformanceAnalysisTraceCachedPlansLastHash=NormalizedPlanHash FROM PerformanceAnalysisTraceCachedPlans WHERE EventSourceConnectionID = @EventSourceConnectionID AND PlanHandle = @PlanHandle ORDER BY LastObservationTime DESC

Locks

Context	Lock Mode	Lock Type	Object	Index	Wait Resource
Owner	S	Key Lock	SQLSentry.dbo.Performance...	IX_PerformanceAnalysisTraceCachedPlans_Age	KEY: 5.720575940427776...
Waiter	S (wait)	Key Lock	SQLSentry.dbo.Performance...	PK_PerformanceAnalysisTraceCachedPlans	KEY: 5.720575940427776...

The deadlock **victim** is highlighted in red (shown as *Victim 56 [0]* in the example above). The **victim** is selected, and the **Node Details** and **Locks** associated with the victim are displayed to the right in the image. There are two **resource** nodes (shown as *Key Lock*, this could also be at a different level such as an *Object Lock* or a *Page Lock*), and a **process** node (shown as *Process 246 [0]*). Select any of the nodes to display the associated **Node Details** and **Locks** (if applicable).

Note: The numbers (1, 2, 3, and 4) and associated arrows that connect the nodes indicate the sequence of events that took place to create the deadlock.

Deadlock Details

Column	Description
SPID [ecid]	The session process ID of the associated owner/waiter.
Host	The server or workstation name.
Application	The associated application (e.g. a SQLAgent Job, .Net SqlClient Data Provider, name of a specific application running SQL statements against the associated database, etc.).
Database	The associated database.
Login	The user login associated with the session.
Log Used	The amount of log space used by the process.
Deadlock Priority	Specifies the Deadlock Priority . Zero (0) or Normal is the default priority. In cases where each session has the same Deadlock Priority , SQL Server chooses the victim based on the least expensive session to roll back. Additional Information: For general information about the DEADLOCK_PRIORITY option, see the Set Deadlock_Priority MSDN article.
Wait Time	Time in (ms) milliseconds spent waiting on the resource.

Column Lock Mode	The requested lock mode (e.g. <i>Shared (S)</i> , <i>Update (U)</i> , <i>Exclusive (X)</i> , etc.). Description 🔗 Additional Information: See the Transaction Locking and Row Versioning Guide and Lock Modes articles on Microsoft Docs.
Isolation Level	The current transaction isolation level. 🔗 Additional Information: For general information on isolation levels see the Isolation Levels in the Database Engine MSDN article.
Trans Name	Name of the associated transaction.

Node Details

Processes

Column	Description
Type	States whether the process is the <i>Owner</i> or <i>Waiter</i> for the lock.
SPID [ecid]	The session process ID of the associated owner/waiter.
Lock Mode	The requested lock mode (e.g. <i>Shared (S)</i> , <i>Update (U)</i> , <i>Exclusive (X)</i> , etc.). 🔗 Additional Information: See the Transaction Locking and Row Versioning Guide and Lock Modes articles on Microsoft Docs.
Host	The server or workstation name.
Application	The associated application name.
Login	The user login associated with the session.
Text Data	The associated text data (e.g. T-SQL statement).

Call Stack

Column	Description
Object	The associated object name.
Line Number	The line number which was being executed when the lock occurred.
Text Data	The associated text data (e.g. T-SQL statement).

Locks

Column	Description
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Note: The **Copy** button is only available when you are using **HTTPS** (requires an SSL certificate for your [SQL Sentry Portal installation](#)).