

Performance Analysis Dashboard Retention & Resolution

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Dashboard Resolutions

The **Performance Analysis Dashboard** displays metrics at different resolution levels, depending on the historical time range that's selected in the toolbar. Whenever you're viewing the **Dashboard** in either **Sample** mode or in **History** mode, for ranges of 30 minutes or less, the raw samples collected (detail data) display. This detail level data has a collection frequency of anywhere from 10 seconds to one minute, depending on the metric. As you expand the time range you are viewing, averages over the indicated resolution interval are shown.

Default Time Range	Optional <u>Scalability Pack</u> Time Range*	Resolution
0 <= 30 min	0 <= 160 minutes	Detail Data
30 min <= 8 hrs	160 minutes <= 16 hours	2 minutes
3 hrs 20 min <= 36 hrs	16 hours <= 80 hours	10 minutes
12 hrs <= 5 days	80 hours <= 10 days	30 minutes
2 days <= 20 days	10 days <= 40 days	2 hours
3 days 8 hrs <= 40 days	40 days <= 80 days	4 hours
10 days <= 1 year	unlimited	1 days
20 days <= 2 years	disabled	2 days
30 days <= 3 years+	disabled	3 days

Historical Data Retention

Performance Analysis uses the SQL Sentry database to store all of the performance data it collects. Performance data is rolled up, or averaged based on the age of the data. Once data becomes old enough to move into the next range, it's represented by an average over the time. The default settings for data retention for the different resolutions are as follows:

Resolution	Default Retention Length	Optional <u>Scalability Pack</u> Retention Length*
Detail Data	3 days	15 days

Resolution	Default Retention Length	Optional Scalability Pack Retention Length*
2 min	5 days	59 days
10 min	10 days	113 days
30 min	20 days	176 days
2 hours	40 days	306 days
4 hours	60 days	403 days
1 day	1 year (365 days)	826 days
2 days	2 years (730 days)	disabled
3 days	3 years (1,095 days)	disabled

Note:

- The data retention period can be customized for specific needs. For more information, see the [SQL Sentry Data Capacity Planning](#) article.
- Data viewed under the [Processes](#) tab follows the same data retention and resolution policies as outlined above for Performance Analysis.
- See the [Monitoring Service Settings](#) article for information on other data retention values which are controlled by settings on the **Storage** tab of **Global Settings**. These default values may be changed there. Data for:
 - [Top SQL](#), [Blocking SQL](#), and [Deadlocks](#) is retained for 15 days.
 - [Event History](#) data is retained for 30 days.
 - [Actions Log](#) is retained for 365 days.
 - Index usage statistics ([Indexes](#) tab) is retained for 365 days.

Example One

A database administrator comes into work on Monday and wants to investigate a performance related issue that happened late Friday afternoon. Because detail data is retained for Three days (72 hours), they can access it using the most granular detail resolution (0 <= 30 min).

Example Two

A database administrator wants to compare performance data for the last two months (60 days). The data needs to be compared using the values for the four-hour resolution, because that's the resolution available at 60 days by default.

*Optional Scalability Pack Resolution & Retention

◆ **Feature Availability:** This option is currently in a **preview** status and must be manually applied to your SQL Sentry database.

The tables above have columns for optional higher resolution performance charts with expanded detail data retention that can be applied in combination with the [SQL Sentry Scalability Pack](#). To learn more about this option and how to apply it to your database, see the [Enabling Higher Resolution Performance Charts in SQL Sentry](#) blog post.