

SQL Sentry Portal & SentryOne Monitor Health

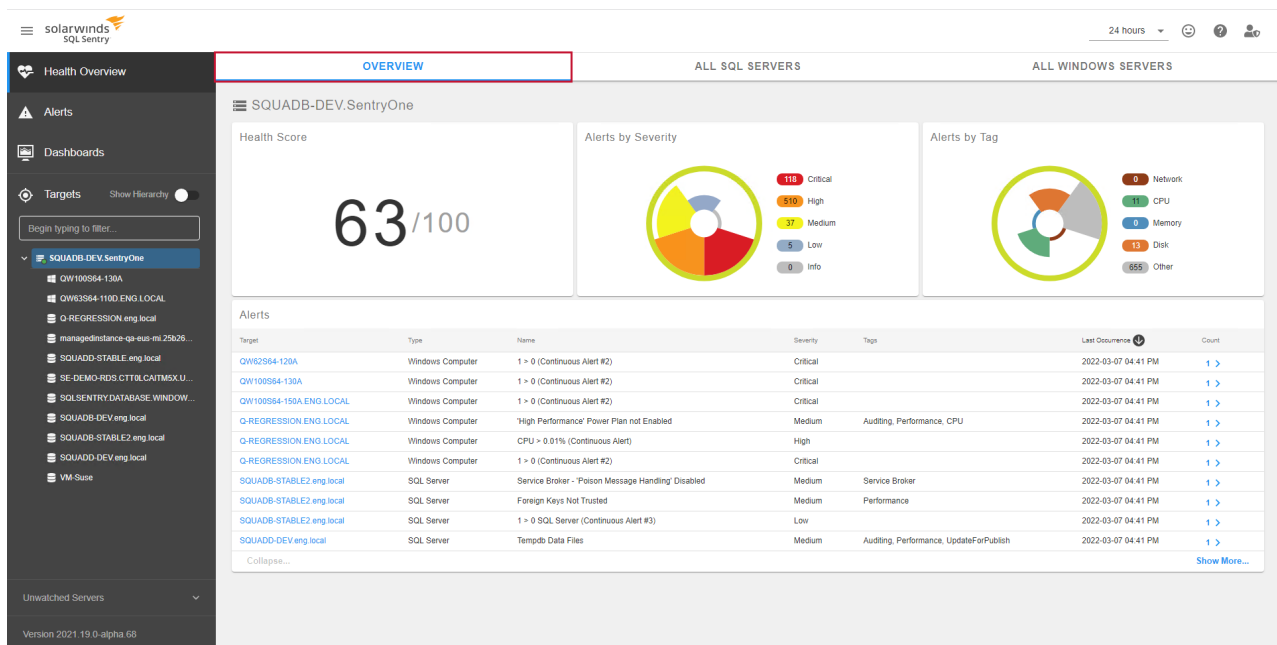
Last Modified on 19 April 2022

✔ **Applies to the following products and features:** The [SentryOne Monitor](#) product and the on-premises [SQL Sentry Portal](#) feature for SQL Sentry.

Health Overview

Overview

The **Overview** tab is displayed by default. As indicated in the name, this view is showing the overall health, and the 10 most recent alerts that fall within the selected time frame (within 24 hours) for all monitored targets in your environment.



Health Score Calculation

The **Health Score** (shown above) is calculated by incorporating open alerts and their associated severity. It uses a 24-hour window in the calculation, and can be adjusted with the Time Slicer to display more recent alerts in varying hour and minute increments. A high health score (with a maximum of 100 possible) is an indicator of good health.

The points per severity level are:

- Low - 1 point
- Medium - 3 points
- High - 6 points
- Critical - 9 points

Note: The weight of an open alert diminishes with its age. The score being presented is 100 minus the sum of the weighted value of open alerts. Closed alerts are not factored into the score. Alerts can be closed in the **Events Log** in the SQL Sentry configuration client.

Select a time increment from the Time Slicer to adjust the Health Score, widgets, and associated alerts based on your selection:

The screenshot shows the SQL Sentry Portal EHO interface. At the top right, a '3 hours' time slicer is selected. The main dashboard displays a Health Score of 62/100. Below this are three widgets: 'Alerts by Severity' (Critical: 17, High: 74, Medium: 34, Low: 5, Info: 0), 'Alerts by Tag' (Network: 0, CPU: 3, Memory: 0, Disk: 13, Other: 115), and an 'Alerts' table. The table has columns for Target, Type, Name, Severity, Tags, Last Occurrence, and Count. A red box highlights the '3 hours' time slicer and the 'Last Occurrence' column in the Alerts table.

Target	Type	Name	Severity	Tags	Last Occurrence	Count
SQUADB-DEV.eng.local	SQL Server	Noah Test Advisory Condition	Critical		2022-03-09 12:28 PM	1
SQUADB-DEV.eng.local	SQL Server	High Pending Disk IO Count	Medium	CPU, Performance, Disk	2022-03-09 01:02 PM	1
managedinstance-qa-eus-mi-256266ef096c.database.windows.net	SQL Server	Noah Test Advisory Condition	Critical		2022-03-09 02:01 PM	6
SQUADB-DEV.eng.local	SQL Server	High Disk Waits and Latency	Medium	Performance, Disk, Waits	2022-03-09 02:38 PM	7
SQUADB-STABLE2.eng.local	SQL Server	High Disk Waits and Latency	Medium	Performance, Disk, Waits	2022-03-09 02:39 PM	4
SQUADD-DEV.eng.local	SQL Server	Check Constraints Not Trusted	Medium	Performance	2022-03-09 02:45 PM	1
SQUADD-DEV.ENG.LOCAL	Windows Computer	CPU > 0.01% (Continuous Alert)	High		2022-03-09 03:11 PM	21
QW83584-110D.ENG.LOCAL	Windows Computer	CPU > 0.01% (Continuous Alert)	High		2022-03-09 03:16 PM	36
QW100584-150A.ENG.LOCAL	Windows Computer	CPU > 0.01% (Continuous Alert)	High		2022-03-09 03:18 PM	12
QW82584-120A.IMSVE.COM	Windows Computer	1 > 0 (Continuous Alert #2)	Critical		2022-03-09 03:19 PM	1

SQL Sentry Portal EHO displaying the last 3 hours data

Alert Details

Select the **>** (chevron-right icon) to the right of the count to display the individual details about each logged alert on any of the health views:

The screenshot shows the 'Details' view for an alert. It displays a table with the following columns: Start Time, End Time, Duration, Closed, and Status. The table contains 10 rows of alert details.

Start Time	End Time	Duration	Closed	Status
2022-03-07 02:45 PM	2022-03-07 02:46 PM	00:01:10.112	No	Completed
2022-03-07 01:55 PM	2022-03-07 01:57 PM	00:02:20.440	No	Completed
2022-03-07 06:52 AM	2022-03-07 06:53 AM	00:01:10.247	No	Completed
2022-03-07 01:08 AM	2022-03-07 01:09 AM	00:01:10.183	No	Completed
2022-03-06 06:04 PM	2022-03-06 06:05 PM	00:01:10.202	No	Completed
2022-03-06 05:50 PM	2022-03-06 05:51 PM	00:01:10.119	No	Completed
2022-03-06 05:43 PM	2022-03-06 05:44 PM	00:01:10.204	No	Completed
2022-03-06 05:28 PM	2022-03-06 05:29 PM	00:01:10.185	No	Completed
2022-03-06 05:06 PM	2022-03-06 05:07 PM	00:01:10.178	No	Completed

Collapse... Show More...

EHO for Sites and Groups

The **Environment Health Overview (EHO)** is available for sites and groups in SQL Sentry Portal. Use the **Show Hierarchy** switch to toggle the list of targets between a flat list and a list grouped by sites.

Example of the EHO at the site level (using Default Site)

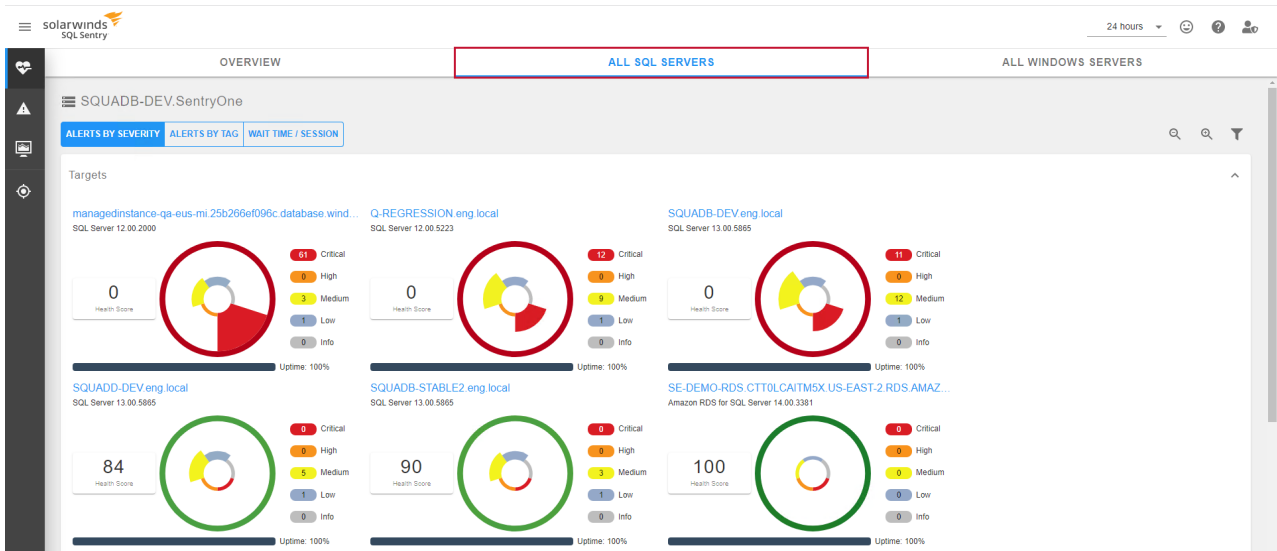
Expand a site to view the groups within it and select a group to view a group EHO.

Example of the EHO at the group level (using Azure SQL DB)

Note: The **Site** and **Group** icons and labels note which type of overview you are viewing.

All SQL Servers View

Select **All SQL Servers** from the sidebar to display the overall health view for all SQL Servers in your monitored environment.

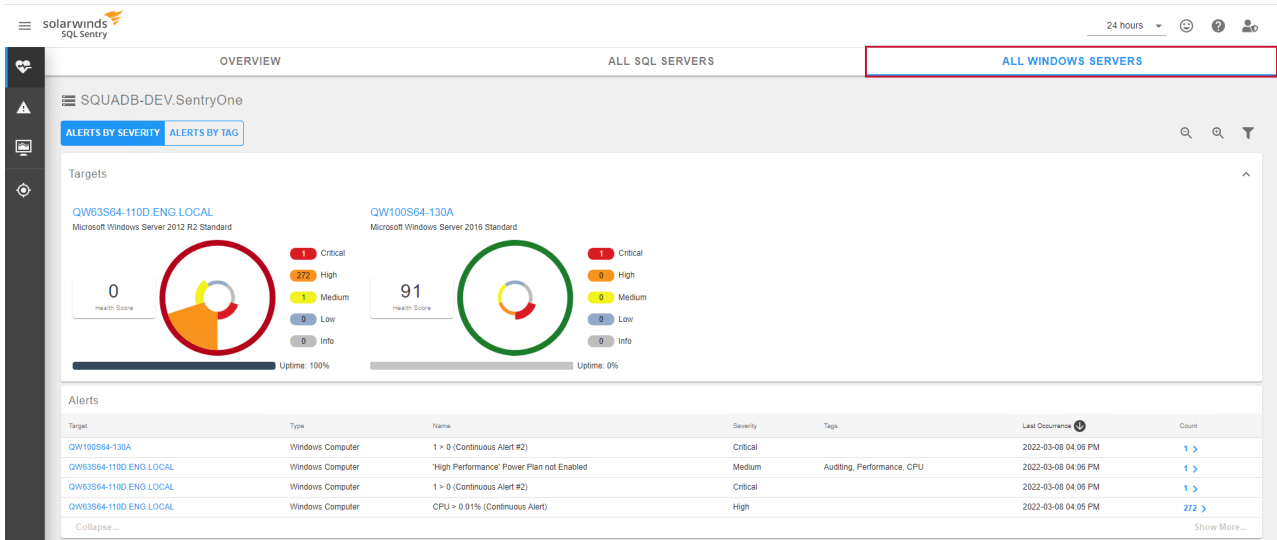


Note: Uptime is a measure of the percentage of time that SQL Sentry Portal is able to connect to the server to collect data.

The **All SQL Servers** view provides options for viewing overall health through **Alerts by Severity**, **Alerts by Tag**, and **Wait Time / Session**. These views are similar to the target health views described below, but they include the overview information for all monitored SQL Servers.

All Windows Servers View

The **All Windows Servers** view provides options for viewing overall health through **Alerts by Severity**, **Alerts by Tag**, and **Wait Time / Session**. These views are similar to the target health views described below, but they include the overview information for all monitored Windows Servers.



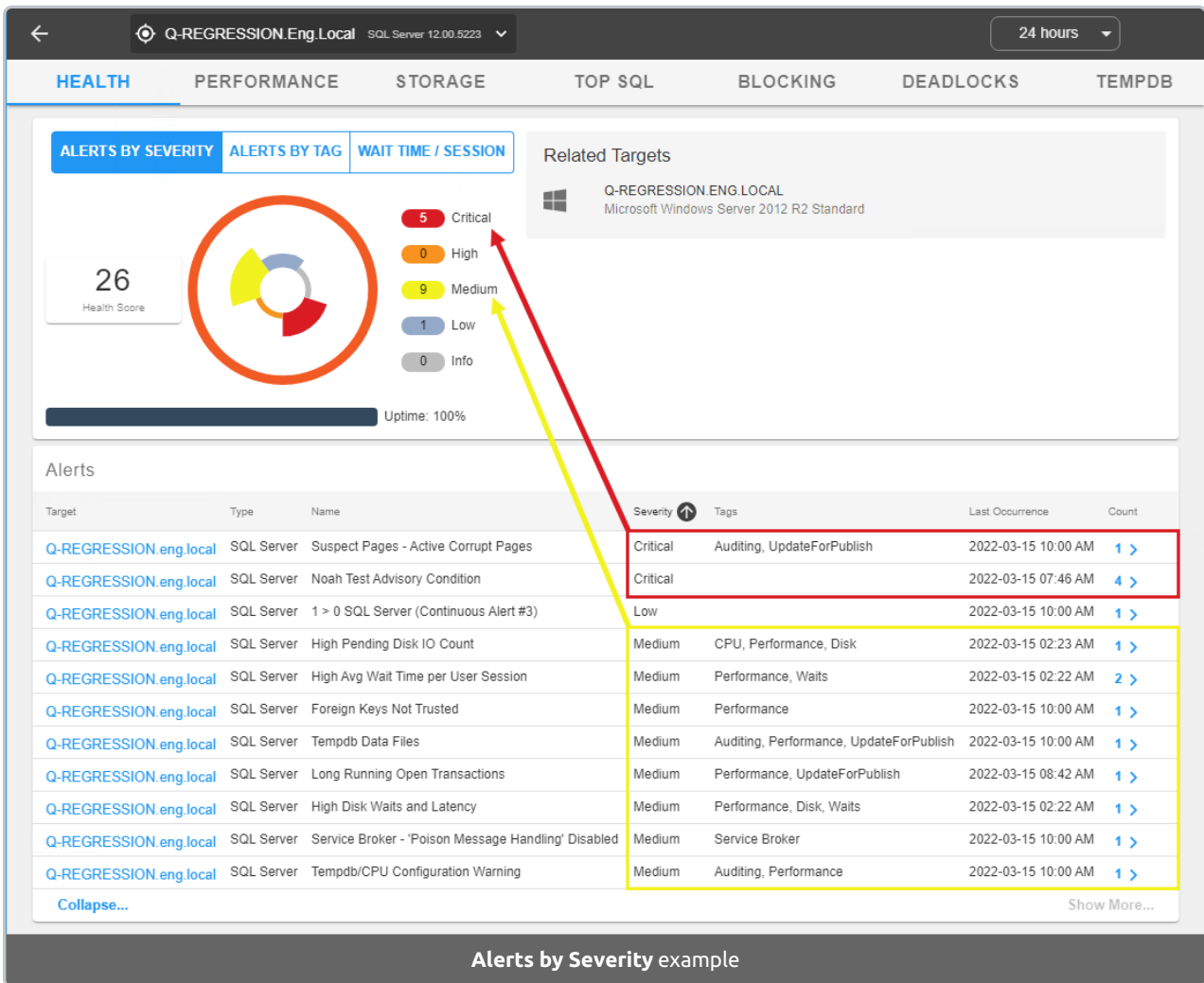
Target Health View

When selecting a target, the **Health** view is the default view. This screen displays wedgets for **Alerts by**

Severity, Alerts by Tag, and Wait Time / Session. The default view is Alerts by Severity.

Alerts by Severity

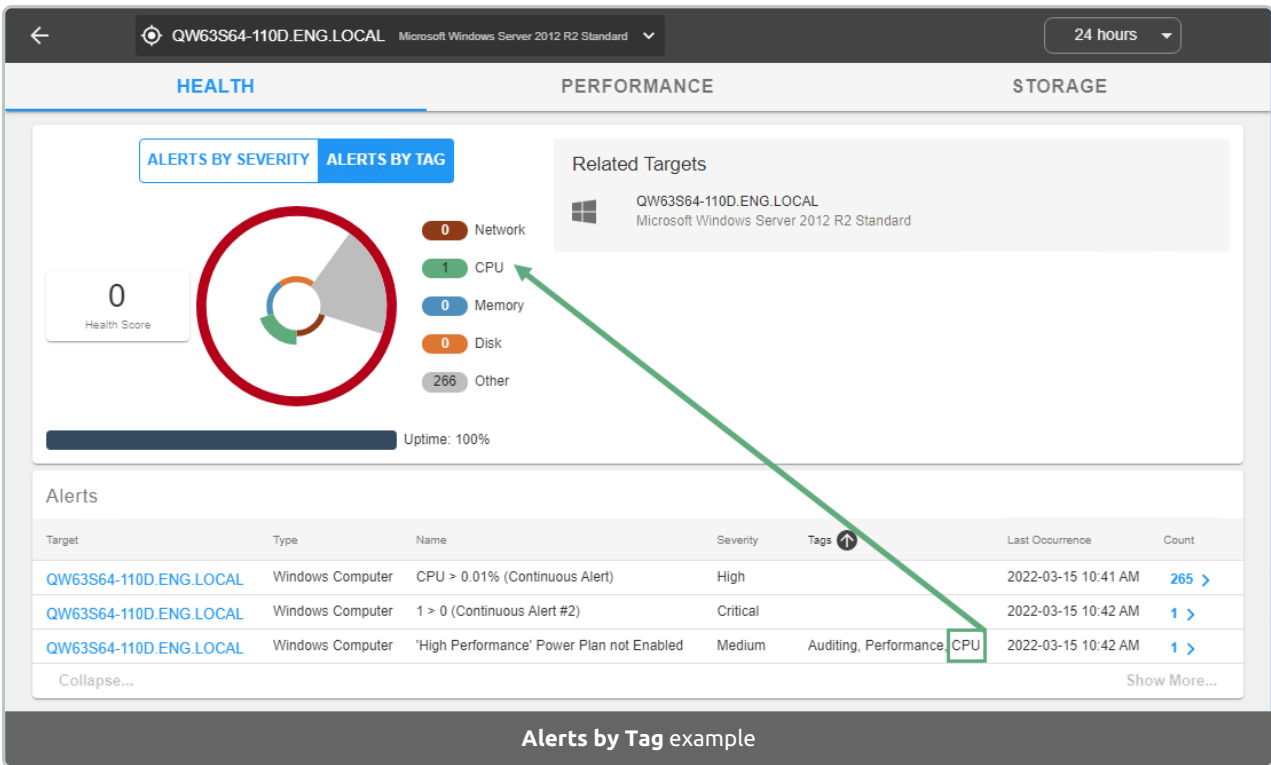
In the example below, the Alerts by Severity widget is displaying 5 Critical and 9 Medium severity alerts. In the Alerts table, you can see 2 rows of alerts with a severity of *critical* (4, and 1) totaling 5, and 8 rows of *medium* alerts (with one row displaying 2 alerts) totaling 9. This is how the number in the color-coded alert is calculated.



Note: Selecting the blue hyperlinked target name on the left provides an option to switch to the Health, Performance, Storage, Top SQL, Blocking, Deadlocks, or TempDB view for that target.

Alerts by Tag

The Alerts by Tag view works by incorporating alerts to calculate the scores and associate them to tags on the alerts (Network, CPU, Memory, Disk, and Other). The score for these views is based on the severity of all open alerts within the selected time period. A high health score (with a maximum of 100 possible) is an indicator of good health.

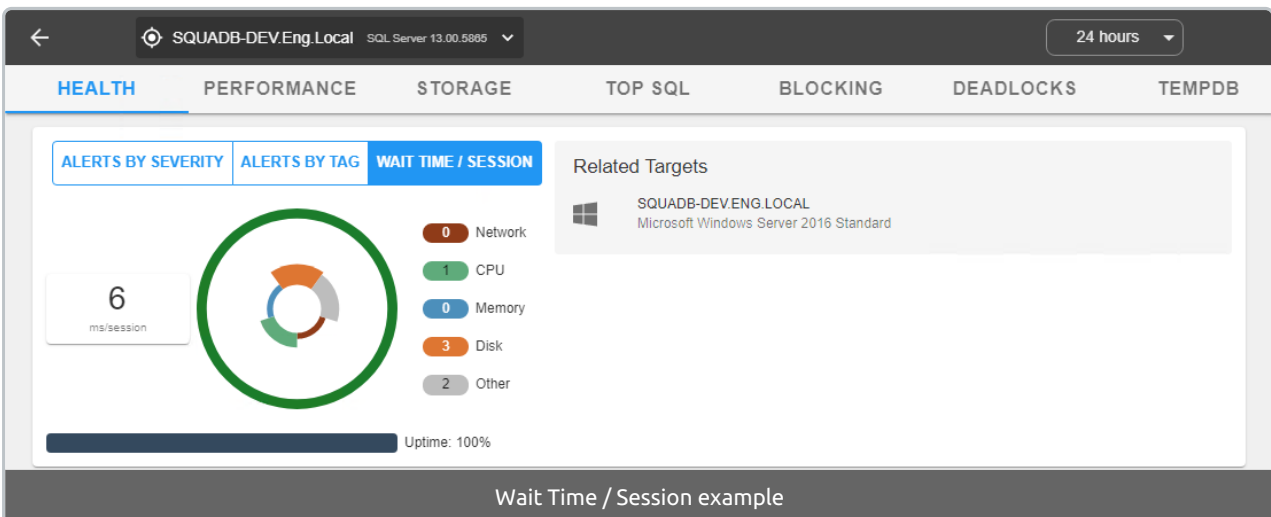


Wait Time / Session

Wait Time / Session relies on wait stats data collected by SQL Sentry. These wait stats are broken down by major resource category (**Network, CPU, Memory, Disk, Other**). In this view, the health score worsens as waits increase. A low ms/session score is an indicator of good health.

Each category is calculated independently. The displayed value for a category is calculated as the waits for the category divided by the user sessions. The values for waits and user sessions are based on the most recent values present in the selected time frame. Each value is then rounded and displayed as the category's value. The overall score is the sum of the five rounded categories.

The **Other** category is for other important wait types that either affect performance in more than one major category, or can't be directly attributed to any category with absolute certainty, such as backups and parallelism respectively.



Related Targets

As seen in the image above, there is a list of **Related Targets** (1 SQL Server and 1 Windows Server in this example). When there are multiple instances on a SQL Server, they will be listed as a related target, as will the Windows Server where the SQL Server is installed.