

SQL Sentry Monitoring Service Security

Last Modified on 04 August 2021

The SQL Sentry [monitoring service](#) is a Windows service that runs in the context of a domain account. It is used by [SQL Sentry Software](#) (i.e. SQL Sentry) and [SQL Sentry Monitor](#).

Security Requirements

⚠ Important: Prior to version 19.1.1, the account must have **sysadmin** privileges on each [watched](#) SQL Server. We do not support watching targets on SQL Server version 2008 R2 or earlier without **sysadmin** privileges in any version of SQL Sentry.

- If the monitoring service account and interactive user do not have **sysadmin** privileges, then:
 - They must, at a minimum, be a principal on the SQL Server [target](#) with the **Control server** permission granted.
 - They must be a member of the **SQLAgentOperatorRole** role on the **msdb** database.
 - This automatically adds membership to the **SQLAgentReaderRole** and **SQLAgentUserRole**.
 - The **securityadmin** server role may be required to guarantee the collection of SQL Agent Log events, depending on the exact SP/CU of the SQL Server version.
 - See the [Update to change permissions for running sp_readerrorlog and sp_enumerrorlogs in SQL Server](#) article from Microsoft for additional information.
- The account must also have **Windows Administrator** privileges on any computer with a **watched** Windows Task Scheduler instance to collect system level performance metrics with SQL Sentry **Performance Analysis**. If the monitoring service does not have **Windows Administrator** privileges, instance level metrics can still be collected using the [Limited Access](#) option.
- It isn't necessary for this account to be a domain administrator account.
 - It's recommended that the service account be a standard user domain account that's added to the local administrators group of each monitored target.
 - For more information about security and SQL Sentry **Performance Analysis**, see the [Performance Analysis Security Requirements](#) topic.
- **GMSA** (Group Managed Service Accounts) is supported through the [Service Configuration Utility](#) (see the [Monitoring Service Logon Account](#) article for instructions) and [EPI Commands](#).

⚠ Important: There are some limitations when not using **sysadmin** privileges:

- SQL Sentry will not be able to collect VLF and log file data for [targets](#) that are on SQL Server version 2016 SP 1 or earlier.
- Last DBCC CHECKDB time is available only if the targets have the following SQL Server versions with the appropriate SP or CU:

- 2014 SP 3+
- 2016 SP 2+
- 2017 CU 7+
- 2019+
- You will not be able to start or stop the SQL Server Agent from the [SQL Sentry client](#) unless the target **Access Level** is **Full Access** and the interactive user is a Windows admin on the associated Windows target for that watched SQL Server.
- The watch status of SQL Agent Alerts cannot be changed.

[🔗](#) **Additional Information:** See the [SQL Sentry v19.1.1 : Monitoring Service Security Requirements](#) blog post for additional details on not using sysadmin privileges.

📌 Note: As of SQL Server 2008 the local administrators group of a Windows server isn't automatically given access to a SQL Server instance installed on that Windows server. Keep this in mind when installing SQL Sentry for use with SQL Server 2008 and above.

⚠ Important: Adding the service account to the local Windows Administrators group for the SQL Sentry database server doesn't automatically grant the service user access to the [SQL Sentry database](#).

Monitoring Azure

See the [Microsoft Azure SQL Database and Data Warehouse Security](#) article for account and firewall information required to monitor these target types.

Changing the Monitoring Service Credentials

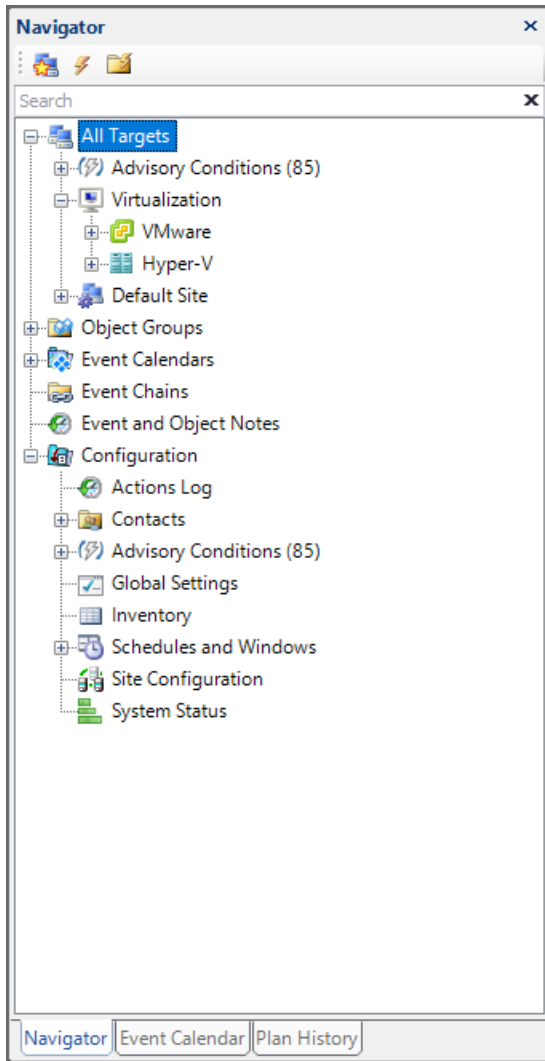
After the initial installation, the [Service Configuration Utility](#) is used to update or change the credentials of the SQL Sentry monitoring service account. See the [Monitoring Service Logon Account](#) article for instructions.

Monitoring Service Connection Properties

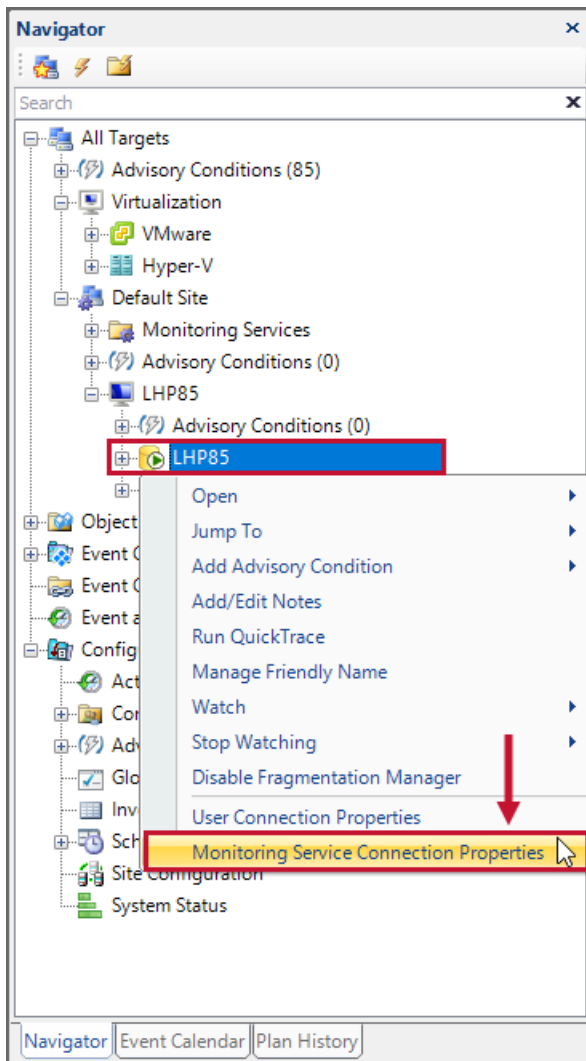
If the **Monitor Performance** setting is set to **False** for a [target](#), and you don't need to utilize **General Performance Monitoring** features, you may configure the monitoring service to use **SQL Server Authentication**. This is done through an instance's **Monitoring Service Connection Properties**.

To access the **Monitoring Service Connection Properties** for an [instance](#) complete the following steps:

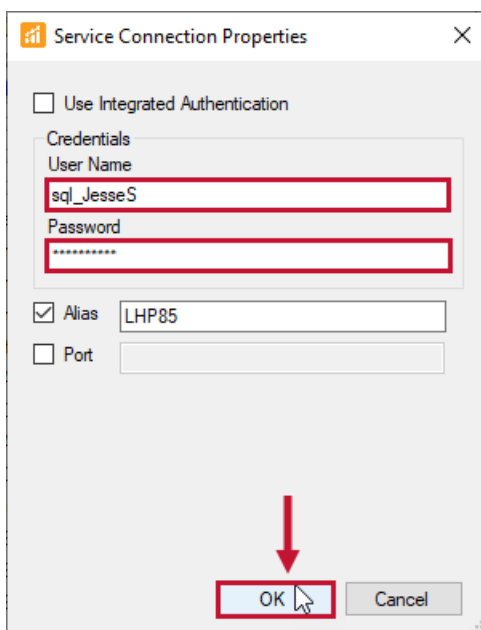
1. Open the **Navigator** pane (**View > Navigator**).



2. Right-click the desired instance, and then select the **Monitoring Service Connection Properties** command to open the **Service Connection Properties** dialog.



3. Uncheck **Use Integrated Authentication**, and then enter the **SQL Server Authentication** account you'd like the monitoring service to use for the instance. Select **OK** to save your changes.



Adjusting Target Access Level

You may wish to monitor an instance where OS level metrics through WMI and/or the Windows Performance Library are inaccessible. This is occasionally the case for cloud based or hosted servers. In these circumstances, a target may be added with **Limited Access**. This suspends attempts to access resources that are required for some functionality like the **Disk Space** and **Activity** tabs, and **Windows Metrics** on the **Performance Analysis Dashboard**. If access to those resources have been resolved, the Access Level can be set to **Full Access** in the **Monitoring Service Connection Properties** at the target level in the **Navigator** pane. Similarly, if a Watched target starts generating errors due to connectivity issues with the OS level resources that can't be resolved, changing the Access Level to **Limited** allows you to continue monitoring non-OS metrics without triggering connectivity errors for the target.

⚠ Important: If you configure **SQL Authentication** for an instance that's being monitored with SQL Sentry **Performance Analysis**, **Performance Analysis** won't be able to collect Windows level metrics for that instance. This is because **Performance Analysis** collects various performance and configuration data directly from Windows, and requires a higher level of access to the operating system than **Event Calendar**. For more information, see the [Performance Analysis Security Requirements](#) topic.

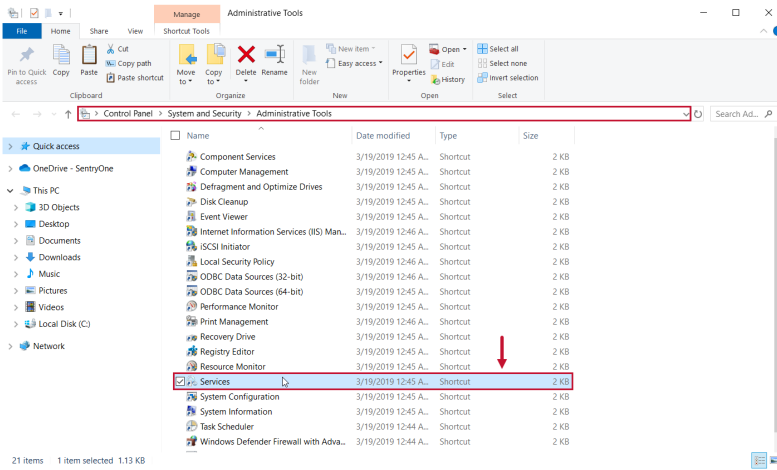
Starting the Monitoring Service

If the service fails to start, complete the following steps to start the service manually.

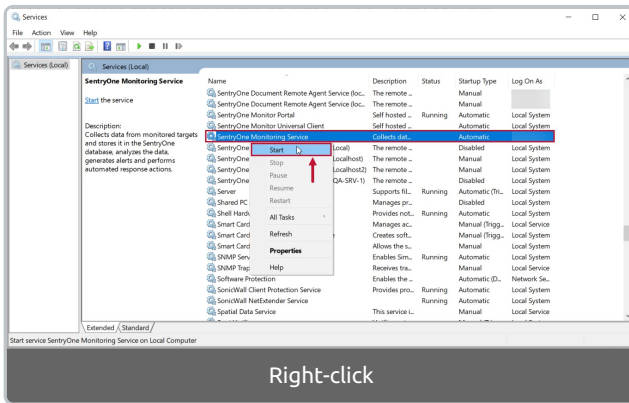
ⓘ Note: The SQL Sentry monitoring service starts automatically after installation.

- For **SQL Sentry Software**, it activates upon detecting a valid license on the SQL Sentry database.
- For **SQL Sentry Monitor**, it activates upon entering valid credentials to the SQL Sentry **Cloud Login** dialog during onboarding. If valid credentials are not entered, the monitoring service will not be able to validate your license.
- Depending on the software version, this may be the **SQL Sentry Monitoring Service** or **SentryOne Monitoring Service**.

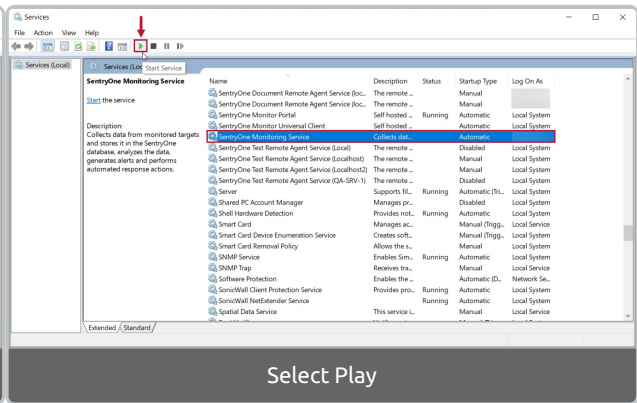
1. Open the **Services** window in Windows by selecting **Control Panel > System and Security > Administrative Tools > Services**.



2. Select **SentryOne Monitoring Service** from the list of services. Right-click **SentryOne Monitoring Service**, and then select **Start** from the context menu or select the **Play** button on the toolbar to start the service.



Right-click



Select Play

Success: You've manually started the **SQL Sentry Monitoring Service**.

