SQL Sentry Event Sources

Last Modified on 22 November 2021

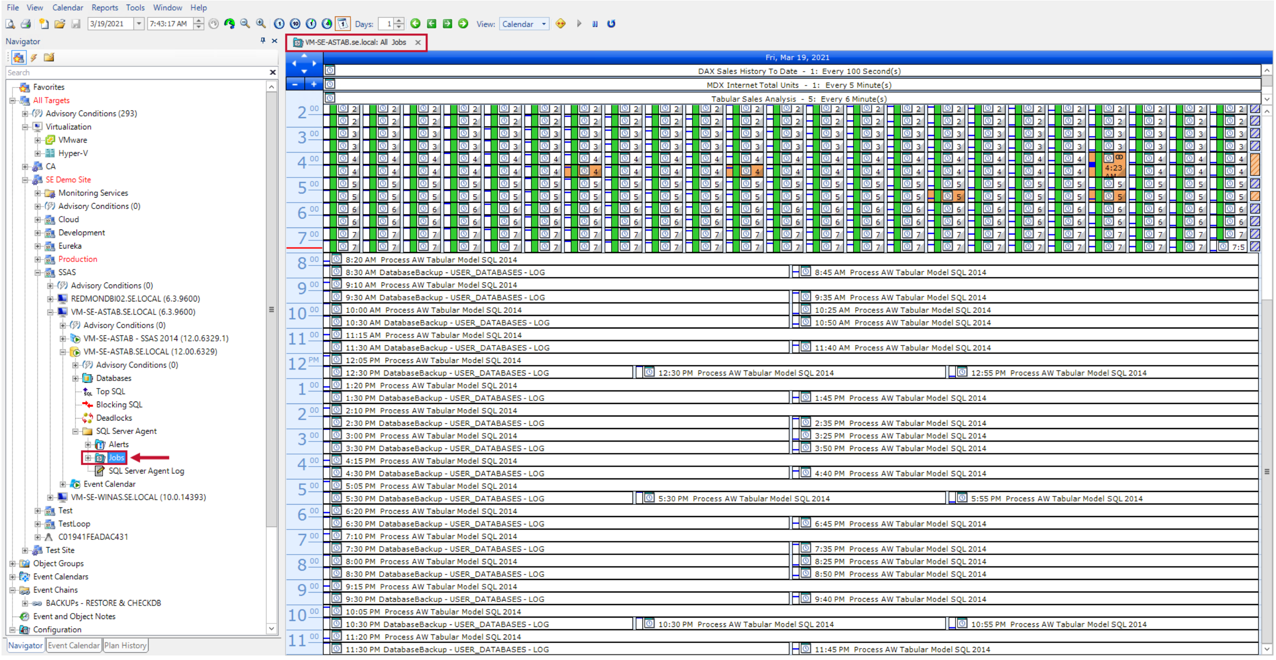
An event source represents a unique instance of an event provider operating over a single event store connection. In SQL Sentry's **Navigator** pane, every sub-node underneath a **SQL Server** node represents a unique event source.

The following is a listing of all event sources currently supported by SQL Sentry, along with their associated event objects, providers, and instances:

Item	Navigator Node	Event Provider	Instance Type
SQL Server Agent Jobs	Jobs	SQL Server Agent Job	SQL Server
SQL Server Agent Alerts	Alerts	SQL Server Agent Alert	SQL Server
SQL Server Agent Log	SQL Server Agent Log	SQL Server Agent	SQL Server
Maintenance Plans	Maintenance Plans	Maintenance Plan	SQL Server
Reporting Services Reports	Reporting Services	Reporting Services	SQL Server
Windows Tasks	Tasks	Window Task Scheduler	Windows Instance
Windows Event Logs	Windows Event Logs	Windows Event Log	Windows Instance

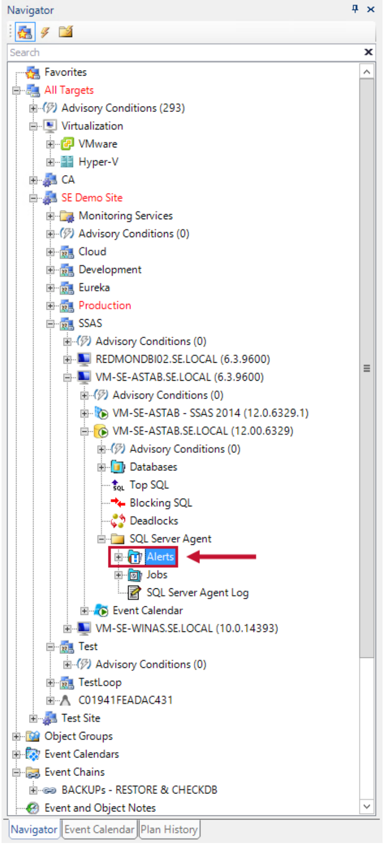
SQL Server Agent Jobs

SQL Server agent jobs are listed for each SQL Server instance under the **Jobs** node. Expand the node to view the list of jobs, or select the node to view a calendar for all jobs. The SQL Server agent job event provider is used behind the scenes to access job metadata, history, and active status information.


File View Calendar Reports Tools Window Help
3/19/2021
7:43:17 AM
Days: 1
View: Calendar
Navigator
VM-SE-ASTAB.se.local: All Jobs
Fri, Mar 19, 2021
DAX Sales History To Date - 1: Every 100 Second(s)
MDX Internet Total Units - 1: Every 5 Minute(s)
Tabular Sales Analysis - 5: Every 6 Minute(s)
Favorites
All Targets
Advisory Conditions (293)
Virtualization
VMware
Hyper-V
CA
SE Demo Site
Monitoring Services
Advisory Conditions (0)
Cloud
Development
Eureka
Production
SSAS
Advisory Conditions (0)
REDMONDBI02.SE.LOCAL (6.3.9600)
VM-SE-ASTAB.SE.LOCAL (6.3.9600)
Advisory Conditions (0)
VM-SE-ASTAB - SSAS 2014 (12.0.6329.1)
VM-SE-ASTAB.SE.LOCAL (12.00.6329)
Advisory Conditions (0)
Databases
Top SQL
Blocking SQL
Deadlocks
SQL Server Agent
Alerts
Jobs
SQL Server Agent Log
Event Calendar
VM-SE-WINAS.SE.LOCAL (10.0.14393)
Test
TestLoop
C01941FEADAC431
Test Site
Object Groups
Event Calendars
Event Chains
BACKUPs - RESTORE & CHECKDB
Event and Object Notes
Configuration
Navigator
Event Calendar
Plan History
8:20 AM Process AW Tabular Model SQL 2014
8:30 AM DatabaseBackup - USER_DATABASES - LOG
8:45 AM Process AW Tabular Model SQL 2014
9:10 AM Process AW Tabular Model SQL 2014
9:30 AM DatabaseBackup - USER_DATABASES - LOG
9:35 AM Process AW Tabular Model SQL 2014
10:00 AM Process AW Tabular Model SQL 2014
10:25 AM Process AW Tabular Model SQL 2014
10:30 AM DatabaseBackup - USER_DATABASES - LOG
10:50 AM Process AW Tabular Model SQL 2014
11:15 AM Process AW Tabular Model SQL 2014
11:30 AM DatabaseBackup - USER_DATABASES - LOG
11:40 AM Process AW Tabular Model SQL 2014
12:05 PM Process AW Tabular Model SQL 2014
12:30 PM DatabaseBackup - USER_DATABASES - LOG
12:30 PM Process AW Tabular Model SQL 2014
12:55 PM Process AW Tabular Model SQL 2014
1:20 PM Process AW Tabular Model SQL 2014
1:30 PM DatabaseBackup - USER_DATABASES - LOG
1:45 PM Process AW Tabular Model SQL 2014
2:10 PM Process AW Tabular Model SQL 2014
2:30 PM DatabaseBackup - USER_DATABASES - LOG
2:35 PM Process AW Tabular Model SQL 2014
3:00 PM Process AW Tabular Model SQL 2014
3:25 PM Process AW Tabular Model SQL 2014
3:30 PM DatabaseBackup - USER_DATABASES - LOG
3:50 PM Process AW Tabular Model SQL 2014
4:15 PM Process AW Tabular Model SQL 2014
4:30 PM DatabaseBackup - USER_DATABASES - LOG
4:40 PM Process AW Tabular Model SQL 2014
5:05 PM Process AW Tabular Model SQL 2014
5:30 PM DatabaseBackup - USER_DATABASES - LOG
5:30 PM Process AW Tabular Model SQL 2014
5:55 PM Process AW Tabular Model SQL 2014
6:20 PM Process AW Tabular Model SQL 2014
6:30 PM DatabaseBackup - USER_DATABASES - LOG
6:45 PM Process AW Tabular Model SQL 2014
7:10 PM Process AW Tabular Model SQL 2014
7:30 PM DatabaseBackup - USER_DATABASES - LOG
7:35 PM Process AW Tabular Model SQL 2014
8:00 PM Process AW Tabular Model SQL 2014
8:25 PM Process AW Tabular Model SQL 2014
8:30 PM DatabaseBackup - USER_DATABASES - LOG
8:50 PM Process AW Tabular Model SQL 2014
9:15 PM Process AW Tabular Model SQL 2014
9:30 PM DatabaseBackup - USER_DATABASES - LOG
9:40 PM Process AW Tabular Model SQL 2014
10:05 PM Process AW Tabular Model SQL 2014
10:30 PM DatabaseBackup - USER_DATABASES - LOG
10:30 PM Process AW Tabular Model SQL 2014
10:55 PM Process AW Tabular Model SQL 2014
11:20 PM Process AW Tabular Model SQL 2014
11:30 PM DatabaseBackup - USER_DATABASES - LOG
11:45 PM Process AW Tabular Model SQL 2014

Using the SQL Sentry client, perform all the same tasks related to jobs that you'd previously do with SSMS, plus more features such as visual scheduling, performance monitoring, reporting, queuing, and chaining.

SQL Server Agent Alerts



SQL Server agent alerts are listed for each SQL Server instance under the **Alerts** node. Expand the node to view the list of alerts, or select the node to view a calendar for all alerts. The SQL Server Agent alert event provider is used to access alert metadata and history information.

SQL Sentry supports SQL Server Agent event alerts, but SQL Sentry can be configured to alert you on SQL Server agent WMI event alerts. Additionally, SQL Sentry can alert you about general performance conditions.

ℹ **Note:** To enable the server alert collection and notification without the use of agents on each SQL Server, SQL Sentry must install the SQL Sentry alert trap and one small table *msdb.dbo.SQL_Sentry_AlertLog_20* on each watched server, and store the procedure *msdb.dbo.spTrapAlert_20*.

SQL Sentry must also make a minor configuration change to each server alert to enable alert collection and notification; the **Execute job** setting updates to use the **SQL Sentry Alert Trap** job. If an alert is already set to execute another job, the **Execute job** settings for that alert doesn't update, and SQL Sentry is unable to generate notifications for the alert.

One of the most common reasons the **Execute job** setting may already be set to a job is for logging and/or notification purposes, in which case SQL Sentry may be able to safely assume control of this function. Some of the advantages instead of using SQL Sentry are that its logging and notification processes are centralized versus distributed on each server. They aren't MAPI-dependent, and they can easily be made redundant by using more than one SQL Sentry monitoring service.

For a complete list of objects SQL Sentry places on a watched server, see the Watched Server Objects topic.

ℹ **Note:** To watch alerts on SQL Server 2005 and above instances, token replacement must be enabled for the SQL Server agent. This is disabled by default as a security precaution. Configure SQL Sentry to auto-enable SQL agent tokens at the global and instance level.

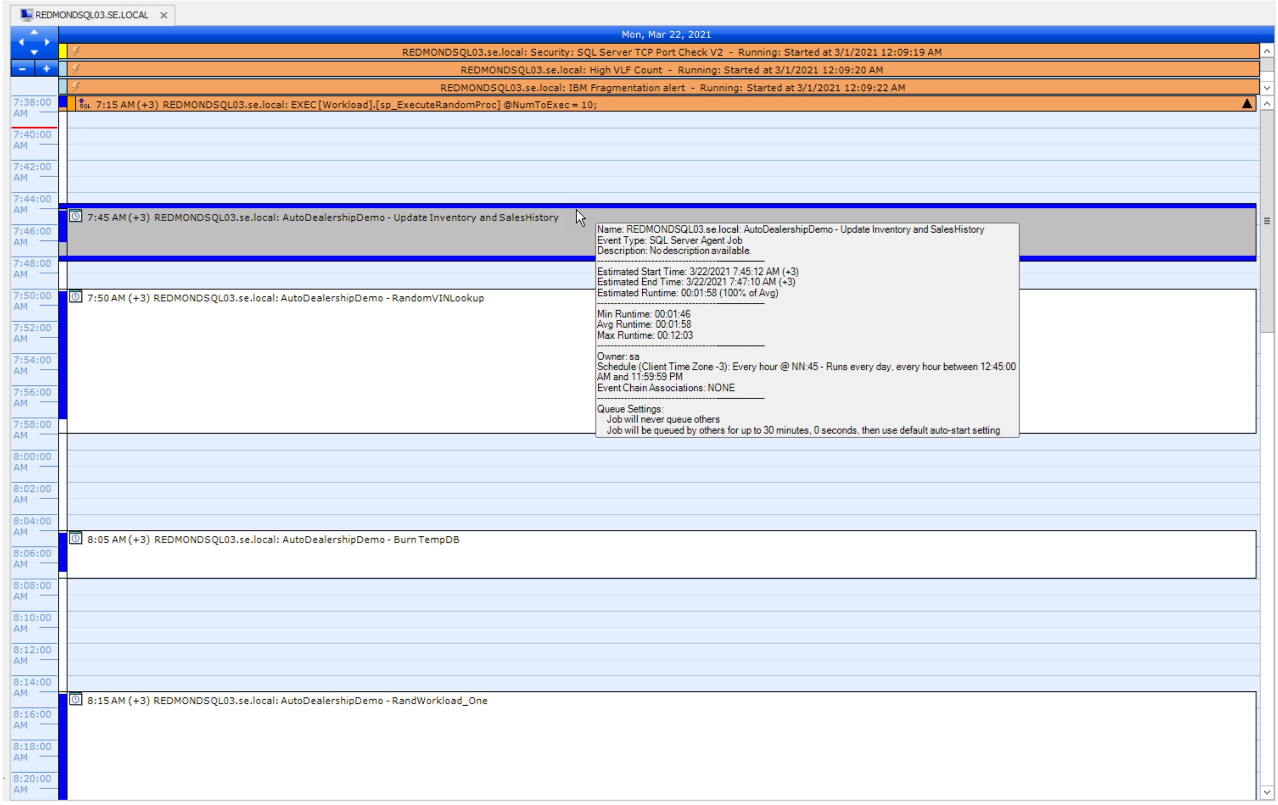
Additional Information: For more information about the token replacement setting for the SQL Server agent, see the SQL Server Books Online.

Reporting Services Reports

If a reporting services database exists on a SQL Server, the **Reporting Services** node displays under the SQL Server agent node, under which all reports are listed by name. Expand the node to view the list of reports, or select the node to view a calendar for all reports. The reporting services event provider is used to access report metadata and history information.

For scheduled reports, **Reporting Services** jobs are listed under the **Jobs** node using a combination of the report name and schedule type. Not all reports have schedules, and some reports have multiple schedules, so the associated object nodes shown under **Jobs** and **Reporting Services** nodes may not match exactly. Shared report schedules are listed under the **Jobs** node.

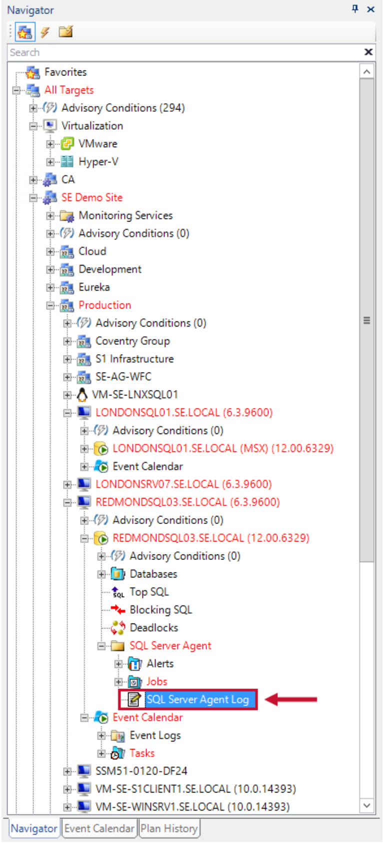
Reports are displayed on the **Calendar** pane by a friendly name and offer many details through their pop-up window.



```
REDMONDSQL03.se.local: Security: SQL Server TCP Port Check V2 - Running: Started at 3/1/2021 12:09:19 AM
REDMONDSQL03.se.local: High VLF Count - Running: Started at 3/1/2021 12:09:20 AM
REDMONDSQL03.se.local: IBM Fragmentation alert - Running: Started at 3/1/2021 12:09:22 AM
7:15 AM (+3) REDMONDSQL03.se.local: EXEC [Workload].[sp_ExecuteRandomProc] @NumToExec = 10;
7:45 AM (+3) REDMONDSQL03.se.local: AutoDealershipDemo - Update Inventory and SalesHistory
7:50 AM (+3) REDMONDSQL03.se.local: AutoDealershipDemo - RandomVINLookup
8:05 AM (+3) REDMONDSQL03.se.local: AutoDealershipDemo - Burn TempDB
8:15 AM (+3) REDMONDSQL03.se.local: AutoDealershipDemo - RandWorkload_One
```

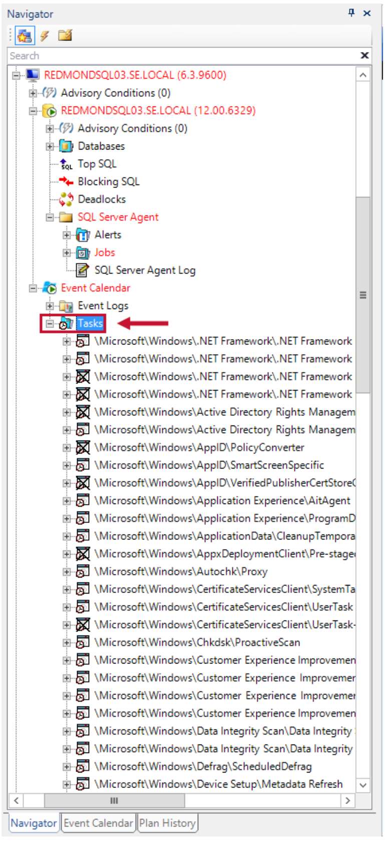
```
Name: REDMONDSQL03.se.local: AutoDealershipDemo - Update Inventory and SalesHistory
Event Type: SQL Server Agent Job
Description: No description available.
------------------------------------------
Estimated Start Time: 3/22/2021 7:45:12 AM (+3)
Estimated End Time: 3/22/2021 7:47:10 AM (+3)
Estimated Runtime: 00:01:58 (100% of Avg)
------------------------------------------
Min Runtime: 00:01:46
Avg Runtime: 00:01:58
Max Runtime: 00:12:03
------------------------------------------
Owner: sa
Schedule (Client Time Zone -3): Every hour @ NN:45 - Runs every day, every hour between 12:45:00
AM and 11:59:59 PM
Event Chain Associations: NONE
------------------------------------------
Queue Settings:
   Job will never queue others
   Job will be queued by others for up to 30 minutes, 0 seconds, then use default auto-start setting
```

SQL Server Agent Log



The **SQL Server Agent Log** node is listed under each **SQL Server Instance** node. Select the node to view a calendar for all SQL Server agent events. The SQL Server agent event provider accesses historical information through the event calendar.

Windows Tasks


Navigator
Search
REDMONDSQL03.SE.LOCAL (6.3.9600)
Advisory Conditions (0)
REDMONDSQL03.SE.LOCAL (12.00.6329)
Advisory Conditions (0)
Databases
Top SQL
Blocking SQL
Deadlocks
SQL Server Agent
Alerts
Jobs
SQL Server Agent Log
Event Calendar
Event Logs
Tasks
\Microsoft\Windows\.NET Framework\.NET Framework
\Microsoft\Windows\.NET Framework\.NET Framework
\Microsoft\Windows\.NET Framework\.NET Framework
\Microsoft\Windows\.NET Framework\.NET Framework
\Microsoft\Windows\Active Directory Rights Managem
\Microsoft\Windows\Active Directory Rights Managem
\Microsoft\Windows\AppID\PolicyConverter
\Microsoft\Windows\AppID\SmartScreenSpecific
\Microsoft\Windows\AppID\VerifiedPublisherCertStore
\Microsoft\Windows\Application Experience\AitAgent
\Microsoft\Windows\Application Experience\ProgramD
\Microsoft\Windows\ApplicationData\CleanupTempora
\Microsoft\Windows\AppxDeploymentClient\Pre-stage
\Microsoft\Windows\Autochk\Proxy
\Microsoft\Windows\CertificateServicesClient\SystemTa
\Microsoft\Windows\CertificateServicesClient\UserTask
\Microsoft\Windows\CertificateServicesClient\UserTask-
\Microsoft\Windows\Chkdsk\ProactiveScan
\Microsoft\Windows\Customer Experience Improvemen
\Microsoft\Windows\Customer Experience Improvemer
\Microsoft\Windows\Customer Experience Improvemer
\Microsoft\Windows\Customer Experience Improvemen
\Microsoft\Windows\Data Integrity Scan\Data Integrity
\Microsoft\Windows\Data Integrity Scan\Data Integrity
\Microsoft\Windows\Defrag\ScheduledDefrag
\Microsoft\Windows\Device Setup\Metadata Refresh
Navigator
Event Calendar
Plan History

SQL Sentry supports the task scheduler event source for Windows targets. Windows tasks are listed for each Windows instance under the **Tasks** node. Expand the node to view the list of tasks, or select the node to view a calendar for all tasks. The **Windows Task Scheduler** event provider is used behind the scenes to access task metadata, history, and active status information.

> ⚠ **Important:** Windows Vista introduced Task Scheduler 2.0. Task Scheduler 2.0 is backwards compatible with Task Scheduler 1.0; however, Task Scheduler 1.0 is not forwards compatible with Task Scheduler 2.0. For this reason, to watch or synchronize Task Scheduler 2.0 connections, you need a SQL Sentry monitoring service and SQL Sentry client running Windows Vista or higher. Windows 8 and Windows 2012 also introduced changes to the Task Scheduler. To watch or synchronize Windows 8 and Windows Server 2012 instances, you need a SQL Sentry monitoring service and SQL Sentry client running Windows 8 or Windows 2012.

Some task scheduler tasks don't return zero for success. In these cases, SQL Sentry may misinterpret this non-zero exit code as a task failure. To prevent these false negatives, specify an exact text string that SQL Sentry recognizes as the success code for that particular task. Select on the task in the **Navigator** pane, and then enter the value next to **Exit code if task was successful**.

Specifying Non-zero Success Codes for Windows Tasks

Note: Occasionally, Windows tasks may show as running even after they have completed. For this reason, while a task is running, the **Close Running Event** context menu item is available to manually close this event. This menu item should only be used when you're sure the task has completed, but shows as running in SQL Sentry.

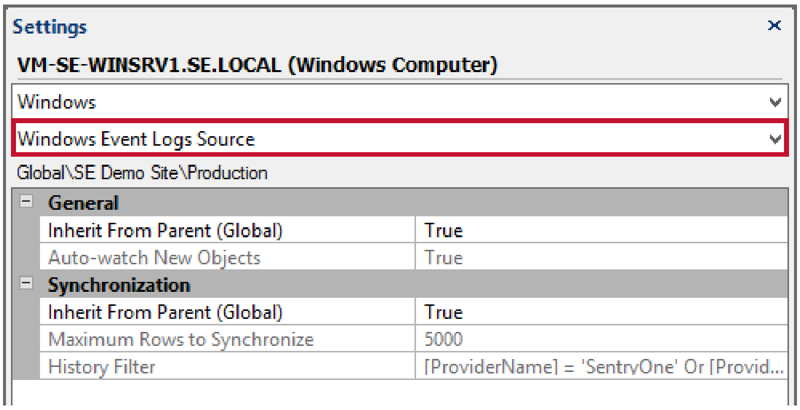
Windows Event Logs

SQL Sentry includes the Windows event logs event source for Windows targets. The monitoring of the Application, Security, and System event logs is supported. When you monitor a Windows instance the **Application** and **System** logs are initially watched. If you'd like to monitor the **Security** log, select **Watch Windows Event Log** from the **Security** node's context menu.

The Windows event logs source has a default **History Filter** in place. The default filter is tailored to capture information about both SQL Sentry and SQL Server. With the **History Filter,** define rules that control exactly what types of events the monitoring service writes into event history concerning the Windows event logs. If an event doesn't meet the criteria you've defined in the **History Filte**r, information about that event isn't written to your SQL Sentry database. Change the filter to best fit your environment.

The Windows event logs **History Filter** can be accessed in the **Settings** pane as follows:

1. Select the Windows **Instance** node in the **Navigator** pane.
2. Open the **Settings** pane (**View** > **Settings**).
3. Select **Windows Event Logs Source** from the drop-down menu.



Settings

VM-SE-WINSRV1.SE.LOCAL (Windows Computer)

Windows

Windows Event Logs Source

Global\SE Demo Site\Production

General	
Inherit From Parent (Global)	True
Auto-watch New Objects	True
Synchronization	
Inherit From Parent (Global)	True
Maximum Rows to Synchronize	5000
History Filter	[ProviderName] = 'SentryOne' Or [Provid...

Note: Monitoring the Windows event logs is supported for Windows Vista or higher.