
Micro Focus Security ArcSight SmartConnectors

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Configuration for Microsoft SQL Server Multiple Instance Audit DB SmartConnector

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Contents

Configuration for Microsoft SQL Server Multiple Instance Audit DB SmartConnector .	6
Product Overview	7
Configuration	7
Downloading the JDBC Driver	7
Mounting a Drive on Linux Platforms	8
Verifying if the TCP/IP Connection is Enabled with SQL Server 2008	9
Creating a Local SQL Server User	10
Creating a Domain User from the Domain Controller	10
Sharing Permissions for the Database Log Folder	13
Enabling Auditing	17
Enabling General Trace Auditing	18
Using a sample Procedure to Enable and Configure Auditing	18
C2 Auditing	20
Installing the SmartConnector	23
Preparing to Install Connector	23
Installing and Configuring the SmartConnector	23
Adding a JDBC Driver to the Connector Appliance/ArcSight Management Center .	28
Runing the Connector with a Standard Domain User Account	30
On the Domain Controller	30
On the Microsoft SQL Server 2005 Host	30
On the Connector Host	31
Creating the Trace File Access Share	32
Changing the Name of Processed Files	33
Device Event Mapping to ArcSight Fields	34

SQL Server Mappings to ArcSight ESM Events	34
Audit Events 104, 105, 106, 107	35
Audit Event 108	35
Audit Event 109	36
Audit Event 110	36
Audit Event 111	36
Troubleshooting	37
SQL Server Sample Audit Procedures	41
SQL Server 2008 and Later	41
SQL Server 2005	65
SQL Server 2000	79
Send Documentation Feedback	83

Configuration for Microsoft SQL Server Multiple Instance Audit DB SmartConnector

This guide provides information for installing the SmartConnector for Microsoft SQL Server Multiple Instance Audit DB and configuring the device for audit log event collection via the SQL Trace mechanism. For supported devices and versions, see [Technical Requirements](#).

This guide provides a high level overview of ArcSight SmartConnectors.

Intended Audience

This guide provides information for IT administrators who are responsible for managing the ArcSight SmartConnectors.

Additional Documentation

The ArcSight SmartConnectors documentation library includes the following resources:

- *Installation Guide for ArcSight SmartConnectors*, which provides detailed information about installing SmartConnectors.
- *Configuration Guides for ArcSight SmartConnectors*, which provides information about configuring SmartConnectors to collect events from different sources.
- *Release Notes for ArcSight SmartConnectors*, which provides information about the latest release

For the most recent version of this guide and other ArcSight SmartConnector documentation resources, visit the [documentation site for ArcSight SmartConnectors](#).

Product Overview

Microsoft SQL Server provides auditing as a way to trace and record activity that has happened on each instance of SQL Server (for example, successful and failed logins). SQL Server also provides an interface (SQL Query Analyzer) for managing audit records.

There are two possible authentication methods that can be used with the SmartConnector for Microsoft SQL Server Audit DB – *Microsoft Windows Authentication* and *Mixed Mode Authentication* (which uses both SQL Server and Windows authentication). Although Microsoft recommends Windows Authentication, this document describes installing and configuring the SmartConnector using both methods of authentication.

Configuration

Before installing the SmartConnector, perform the following configuration steps:

- [Download the SQL Server JDBC driver](#)
- [If installing the SmartConnector on Linux platforms, mount a drive on Linux platforms](#)
- [For SQL Server 2008, verify if TCP/IP connection is enabled](#)
- [Create a Local SQL Server User](#)
- [Create a Domain SQL Server User](#)
- [Share permissions for the database log folder](#)
- [Enable Auditing](#)

Downloading the JDBC Driver

The SmartConnector installation requires JDBC driver to be present. During the installation process, you will be directed to leave the wizard and copy the JDBC driver file you downloaded to a SmartConnector folder.



Note: Different versions of the JDBC driver are required for different SQL Server database versions. The name of the jar file may be different for some JDBC driver versions. Make sure that you use the correct driver for your database version

Refer to the following information to download the correct jar file depending on the JRE version used by the SmartConnector:

- SmartConnector Version 8.3.0 uses JRE 1.8.0_312 and supports jar files from version mssql-jdbc-6.4.0.jre8.jar to mssql-jdbc-9.4.0.jre8.jar.
- SmartConnector Version 7.2.1 and later use JRE 1.8 and require sqljdbc42.jar (available with Microsoft JDBC Driver 6.0 for SQL Server)
- SmartConnector Version 7.1.2 and later use JRE 1.7 and require sqljdbc41.jar (available with Microsoft JDBC Driver 6.0 for SQL Server)
- Earlier versions of SmartConnector run JRE 1.6 and require sqljdbc4.jar (available with Microsoft JDBC Driver 4.0 for SQL Server)

For more information and to download the MS SQL Server JDBC Driver, see [aa937724](#)

Mounting a Drive on Linux Platforms

When installing the SmartConnector on Linux platforms, complete the following steps to allow connector access to the trace files on the SQL Server machine:

To mount the drive:

1. Open a terminal window.
2. Execute the following commands:

```
id <user>  
sudo mkdir <mount point>
```

Replace:

<user> with the username of the user running the connector
<mount point> with the actual mount point on the Linux machine (for example, /mnt/mssql)

3. Execute the following command:

```
sudo mount //<ipaddressOfSQLServer>/<sqltrace> <mount point> -o  
nosuid,uid=<uid>,gid=<guid>,username=<SQLServerusername>,password=<SQLServerpassword>,rw
```

Replace:

<sqltrace> with the name of the shared drive containing the trace files
<uid> and <guid> with information from execution of the commands in step 2
<SQLServerusername> and <SQLServerpassword> with the actual Windows share user and password required to access the SQL Server.

4. To verify the shared folder was successfully mounted, execute the following command:

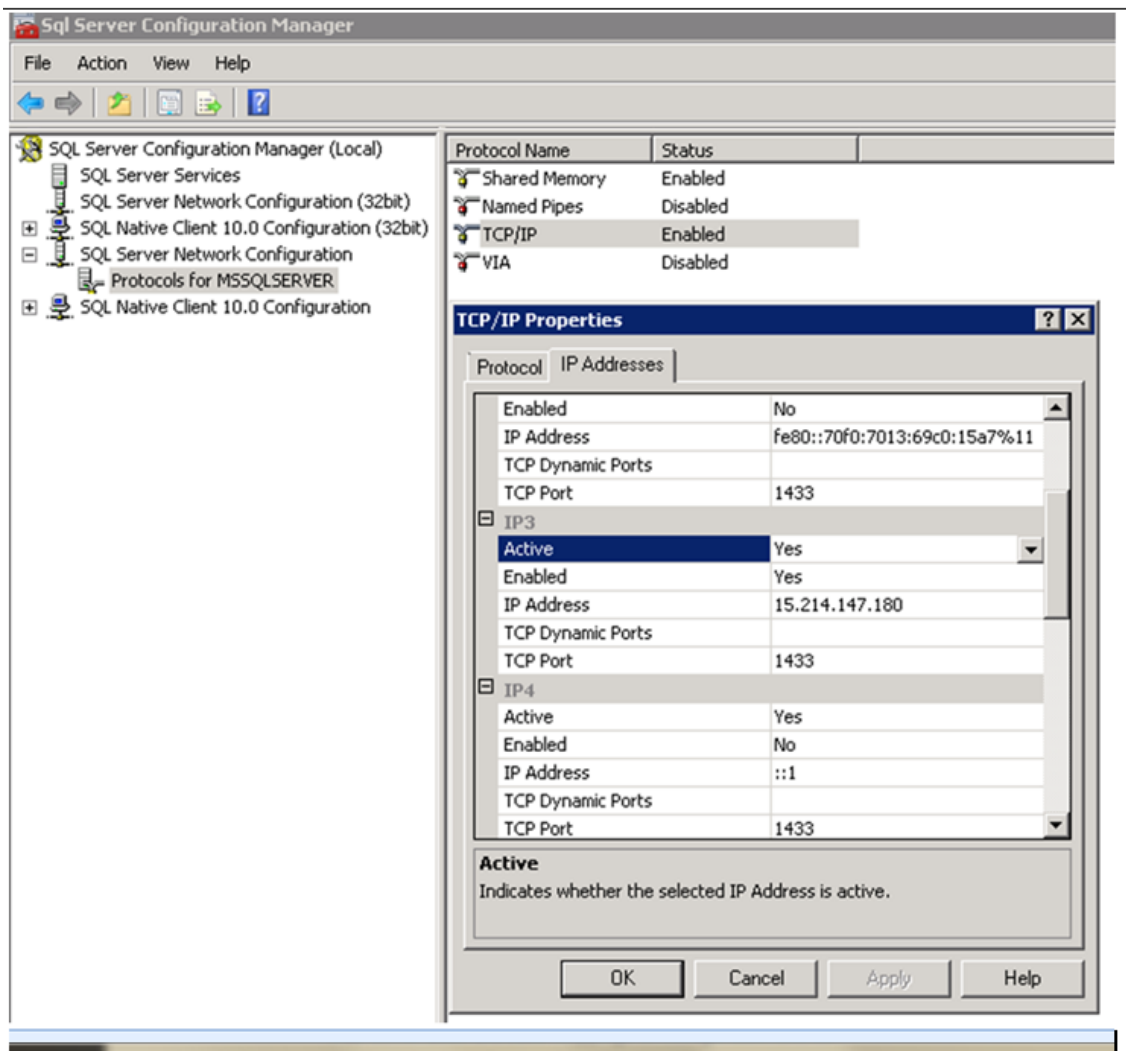
```
ls <mount point>
```

Verifying if the TCP/IP Connection is Enabled with SQL Server 2008

Connection to the SQL Server might be refused if the TCP/IP connection is not enabled.

To verify, complete the following steps:

1. Open **Start > All Programs > Microsoft SQL Server 2008 R2 > Configuration Tools > SQL Server Configuration Manager**.
2. In the left pane, expand **SQL Server Network Configuration** and select **Protocols for [your server]**.
3. Double-click **TCP/IP** and ensure that the IP address you are using to connect to your SQL Server is active and enabled.



Creating a Local SQL Server User

You must create a local SQL Server user when using SQL Server Authentication. Complete the following steps to create a local SQL Server user on SQL Server 2005 and later versions (2005, 2008, 2012, 2014, 2016) and to collect events using a non-administrative SQL Server 2005, 2008, 2012, 2014, 2016 database account:

1. Right-click **Security > Logins** and select **New Login...** to create a new database user account named `sqlaudit`.
2. On the **General** tab, select **SQL Server authentication** and provide a password for `sqlaudit`.
3. From the **User Mapping** tab, check the box in the **Map** column for the **master database** to set the default database of this user to master.
4. Grant this user (`sqlaudit`) **Connect**, **Execute**, and **Select** permissions.
5. Select **SQL Server > Properties > Security > Enable proxy account** to enable the proxy account to the `sqlaudit` user.
6. Go to **SQL Server > Properties > Permissions** and grant the user permission to **Alter trace**.

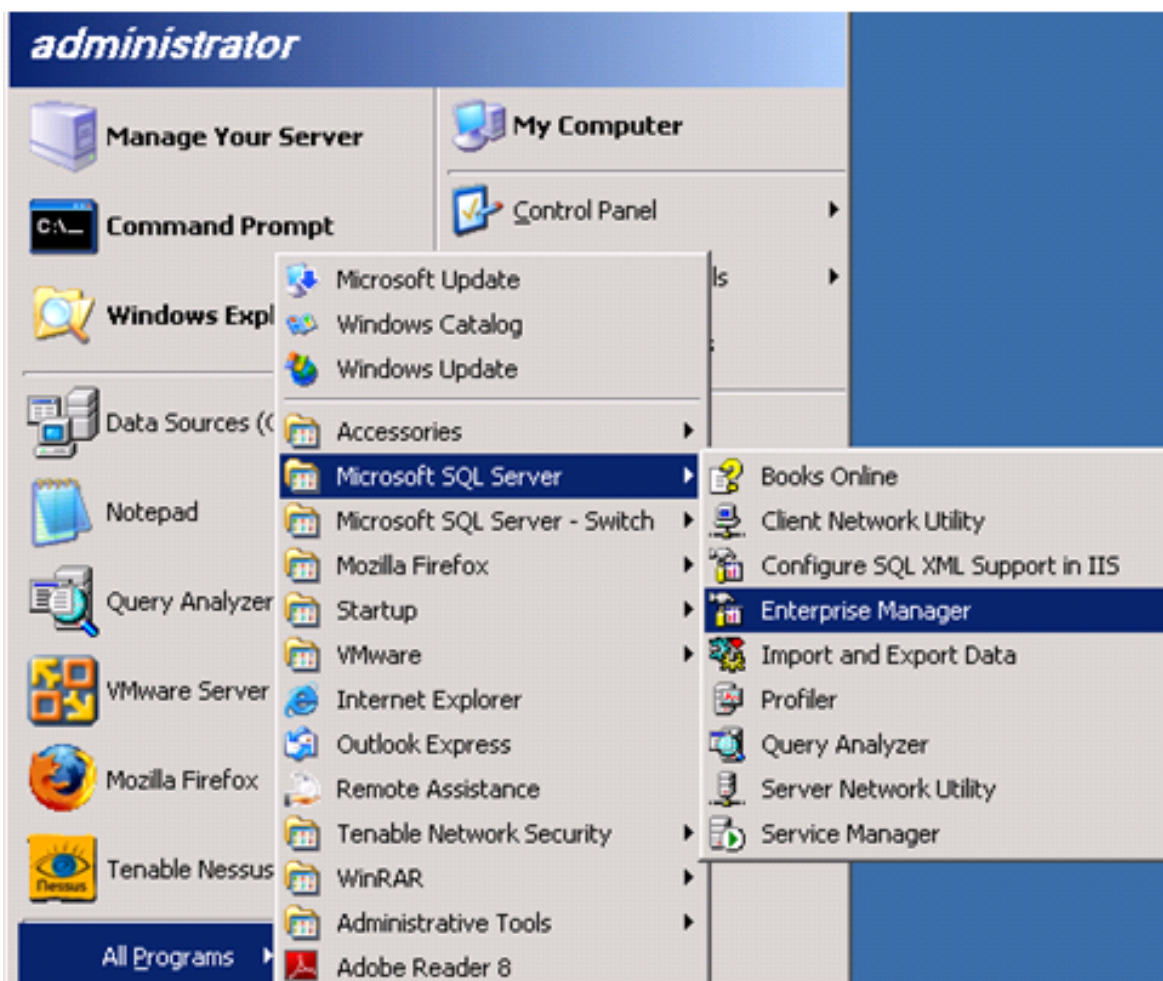
Creating a Domain User from the Domain Controller

This step is required for all authentication modes and operating system environments. System administrator privilege is required for SQL Server database access and for granting folder permissions.

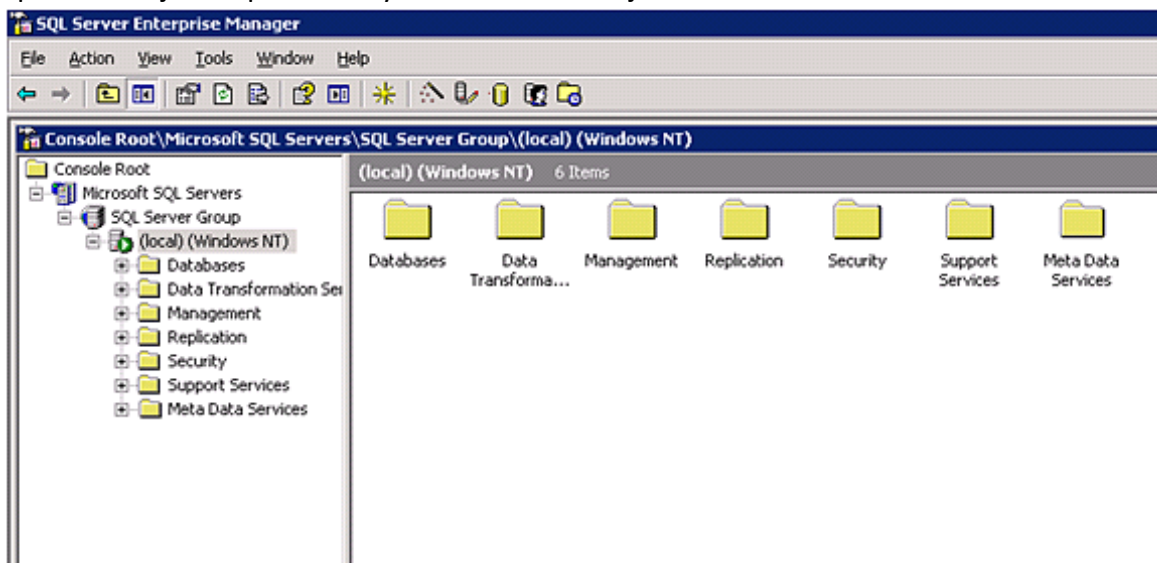
A valid SQL Logon ID (either SQL user account or a Domain/Windows user account) must be used and granted specific database permissions (see [Sharing Permissions for the Database Log Folder](#)).

The following procedure can be used to create a user in a Windows environment with Windows authentication.

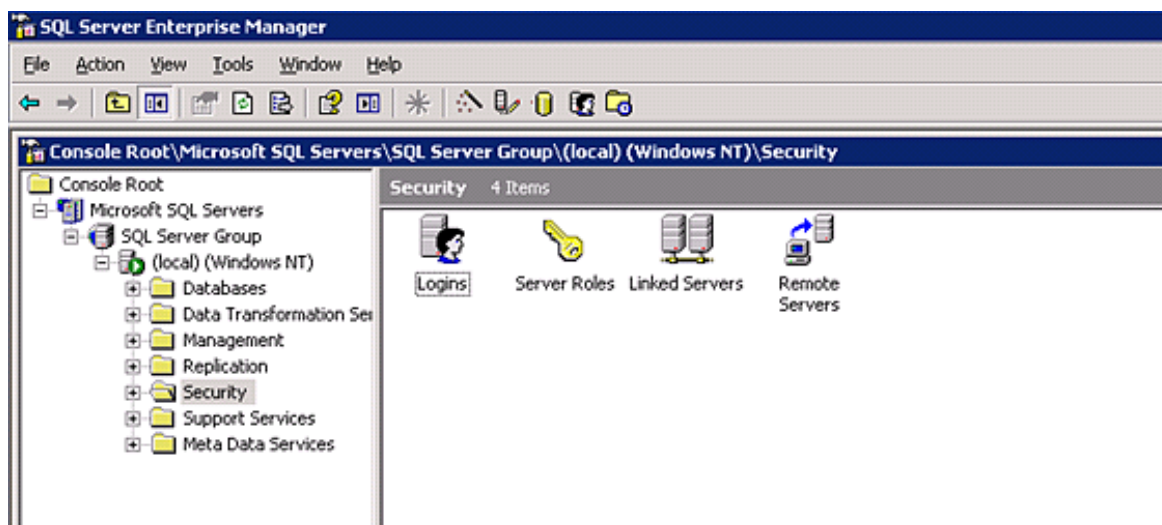
1. From the **Domain Controller**, access **Enterprise Manager** or **Server Management Studio** or from the **Start** menu, select **All Programs > Microsoft SQL Server > Enterprise Manager | Server Management Studio**.



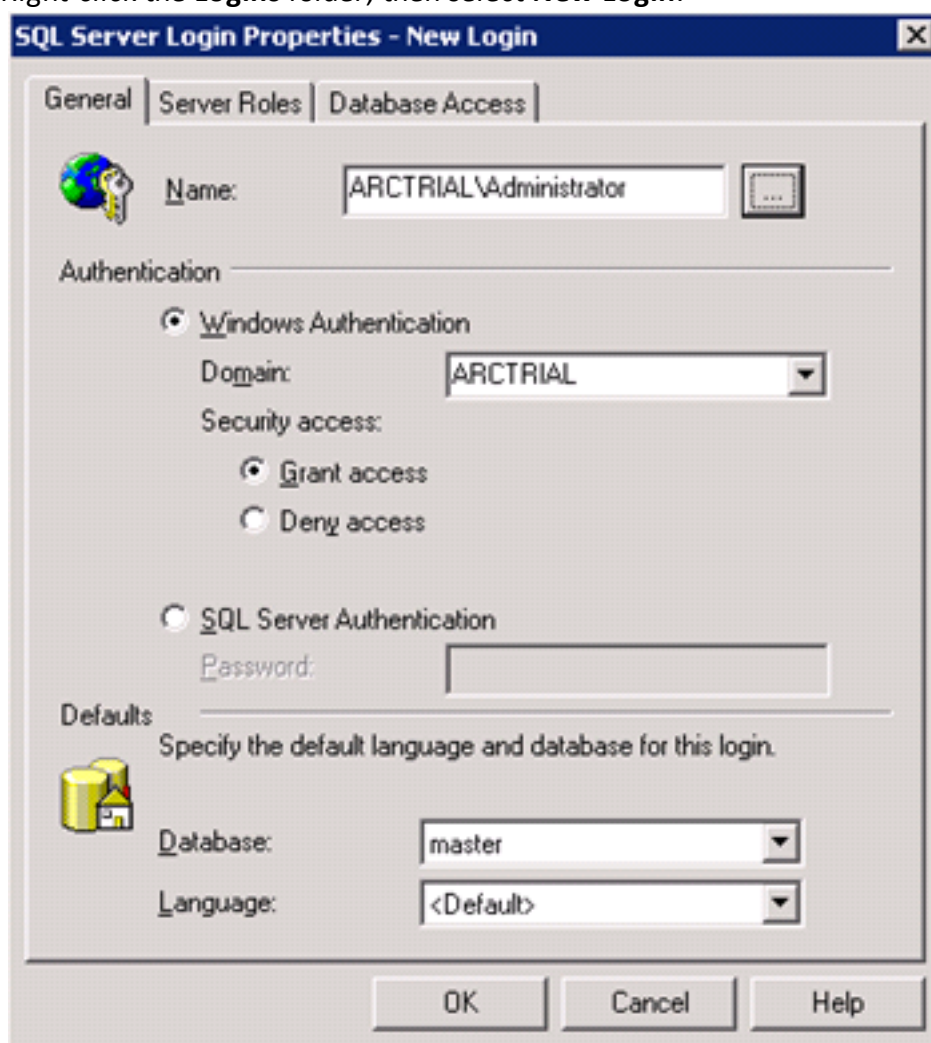
2. Open the Object Explorer for your SQL Server object.




3. Expand the **Security** folder.



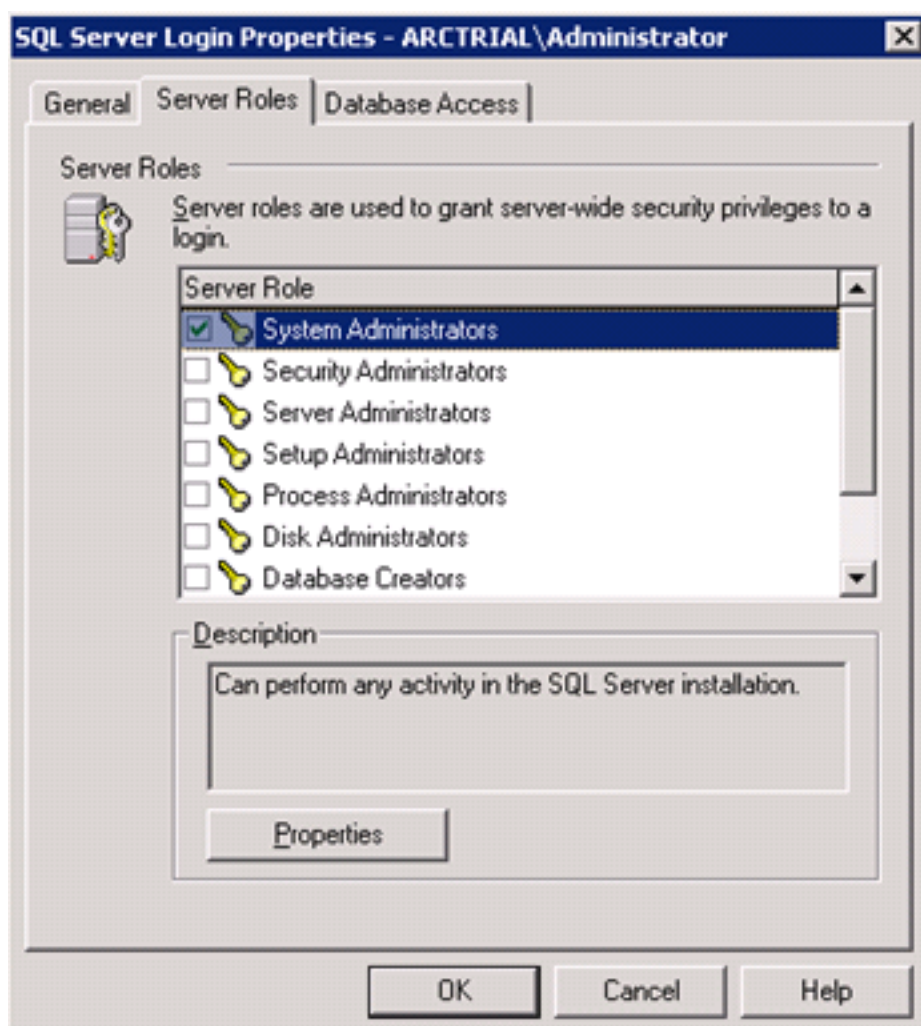
4. Right-click the **Logins** folder, then select **New Login**.



5. Select the Domain/Windows user account to be associated with the new SQL Server login.

 **Note:** When using SQL Authentication, check **SQL Server Authentication** and provide the password.

6. Click the **Server Roles** tab; Check **System Administrators** and click **OK**.



Sharing Permissions for the Database Log Folder

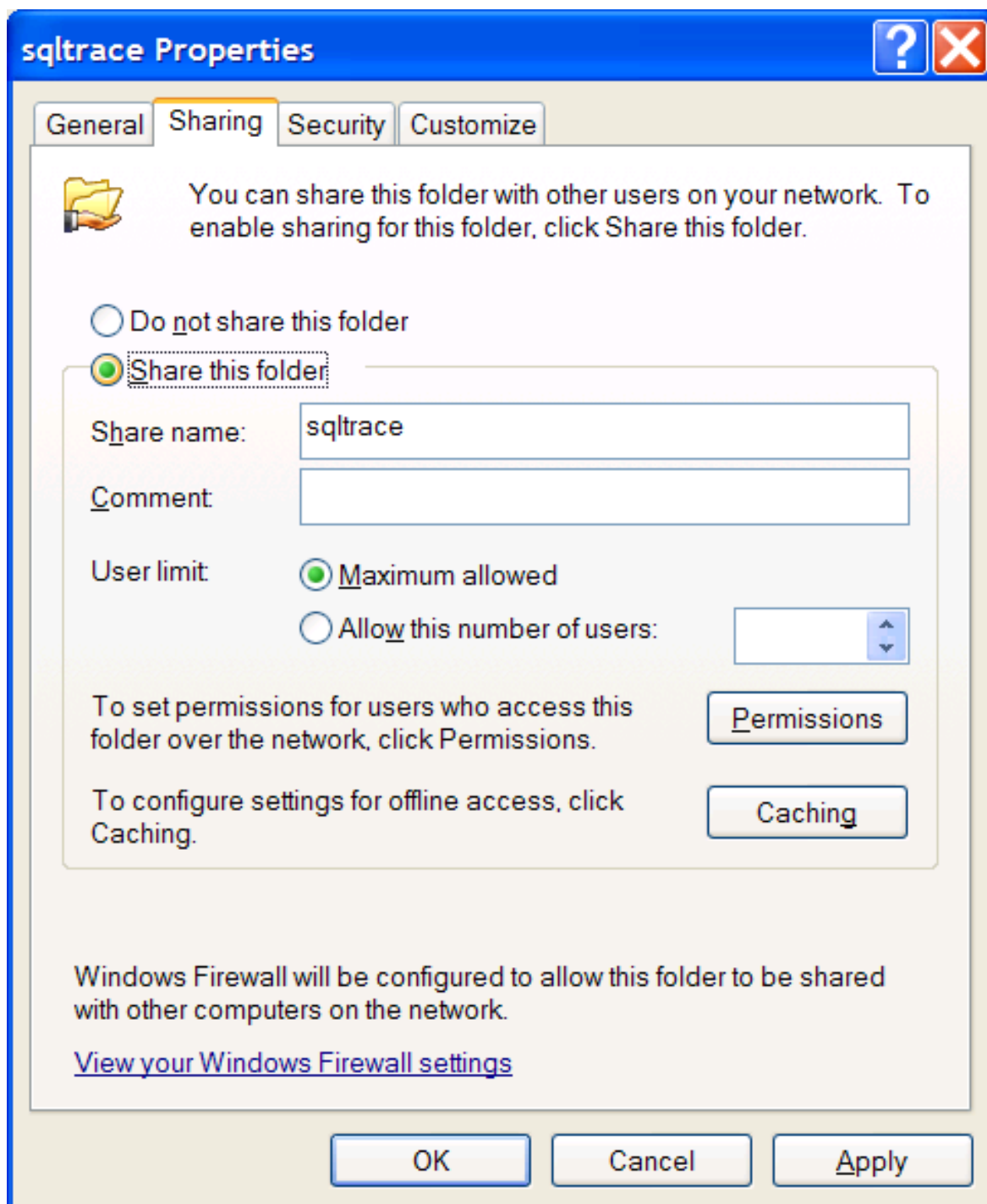
By default the Windows Service account is a local system account that will not have permission to access an SQL Server setup for Windows Authentication. So, for Windows

Authentication to work, the SQL Audit Connector Service must run as a valid Windows account that has been granted permissions in the SQL Server.

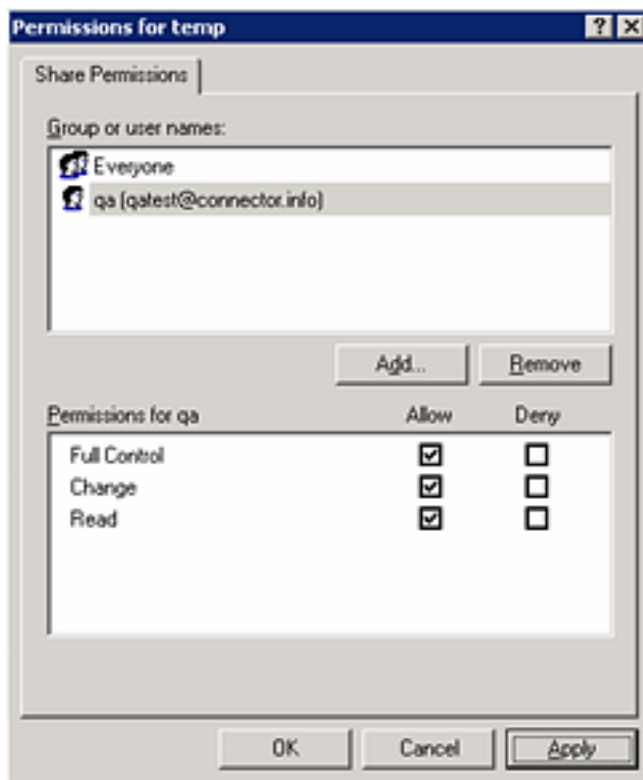
Use a valid SQL Logon ID, either SQL user account or a Domain/Windows user account and grant specific database permissions.

To share permissions for the database log folder:

1. Log in to the SQL Server database machine.
2. Right-click the name of the log file folder (sqltrace in this example), then select **Properties**.
3. From the **Sharing** tab, select **Share this folder** and enter the name of the folder in the **Share name** field.



4. For **User limit**, keep the default value of **Maximum allowed** selected, or select **Allow this number of users** and select a value, then click **Apply**.
5. Click the **Permissions** button.



6. Click **Add** to add the user you created in [Create a Domain User from the Domain Controller](#).
7. Check **Allow** for **Full Control**, **Change**, and **Read** for this user, then click **Apply**.
8. Click **OK** to exit the **Permissions** window.
9. Click the **Security** tab and select the Domain Controller user you created.
10. Grant **Allow** permission for **Full Control** to this user.



11. Click **Apply** and then **OK** to exit the **Properties** window.

Enabling Auditing

SQL Server provides auditing as a way to trace and record activity on each instance of SQL Server (for example, successful and failed logins). SQL Server also provides an interface, SQL Query Analyzer, to manage audit records.



Note: Auditing can only be enabled or modified by members of the 'sysadmin' fixed security role and every modification of an audit is an auditable event.

You can enable the following types of audit:

- **General trace auditing**, which provides some level of auditing but does not require the same number of policies as C2 auditing.
- **C2 auditing**, which requires that you follow very specific security policies. If you intend to enable C2 auditing, you should not audit to the Application log, since SQL Server will write audit information about user login activity to two places

simultaneously and unnecessarily degrade system performance. After you change audit settings, the database must be restarted.

Both these auditing can be done using SQL Query Analyzer, which provides a graphical user interface to monitor an instance of SQL Server.



Note: With Windows authentication mode, the user account that runs SQL Query Analyzer must be granted permission to connect to an instance of SQL Server. For C2 auditing, sysadmin privilege is required.

You can run SQL Query Analyzer directly from inside SQL Server Enterprise Manager.

During their installation process, many applications, including SQL Server, register with the event-log subsystem. Note that **SQL Server's ability to audit login activity (including failed login attempts) to the Windows Application Log is not enabled by default.**

Enabling General Trace Auditing

To configure auditing, launch **Enterprise Manager** or **Management Studio**, select a database server, right-click **Properties**, go to the **Security** tab, and set your desired level of auditing.

Even after enabling auditing to the Application log, details about user activity such as which tables users access, which queries users run, and which stored procedures users invoke are not provided.

Although SQL Server can audit user actions, your DBA must activate this feature. DBAs have unrestricted access to databases on the database server and are responsible for database management. In many environments, the systems administrator or network administrator is also the DBA.

Using a sample Procedure to Enable and Configure Auditing



If SQL Server auditing has already been enabled and configured on your sever, this procedure is not required.

To enable automatic auditing upon server startup, create a procedure to enable the auditing function. For more information see, [Sample SQL Audit Procedures](#).

- Within the sample procedure, replace the occurrences of the path to the trace folder with your actual path and file name (for example, c:\sqltrace\MyTrace.trc).
- Use a unique file name. If the file already exists, the SQL Server fails when you enable the trace.
- To understand the commands in sample procedures, see [What the Sample Procedures Collect](#).



If you are writing from a remote server to a local drive, use the UNC path and make sure the server has write access to your network share.

What the Sample Procedures Collect

Each trace statement in the procedure traces an Event ID and Column ID.

To see the current versions of column and event IDs, use the links below to see the events for SQL Server that can be added to or removed from a trace:

- For SQL Server 2005 and later (2008, 2012, 2014,2016) Event IDs, see: <http://msdn.microsoft.com/en-us/library/ms186265.aspx> and select the **Other Versions** drop-down list to select the appropriate version.

The `sp_trace_setevent` command is used in the sample procedure to add an event class or data column to a trace, or to remove one from it. The `AuditTrcProc` script provided determines the events, and the columns within the events, to be traced. You can add to or delete from the events specified to be traced in the sample procedure using the `sp_trace_setevent` command.

The `sp_trace_setevent` format is:

```
sp_trace_setevent @traceid, <event_id> <column_id> @on
```

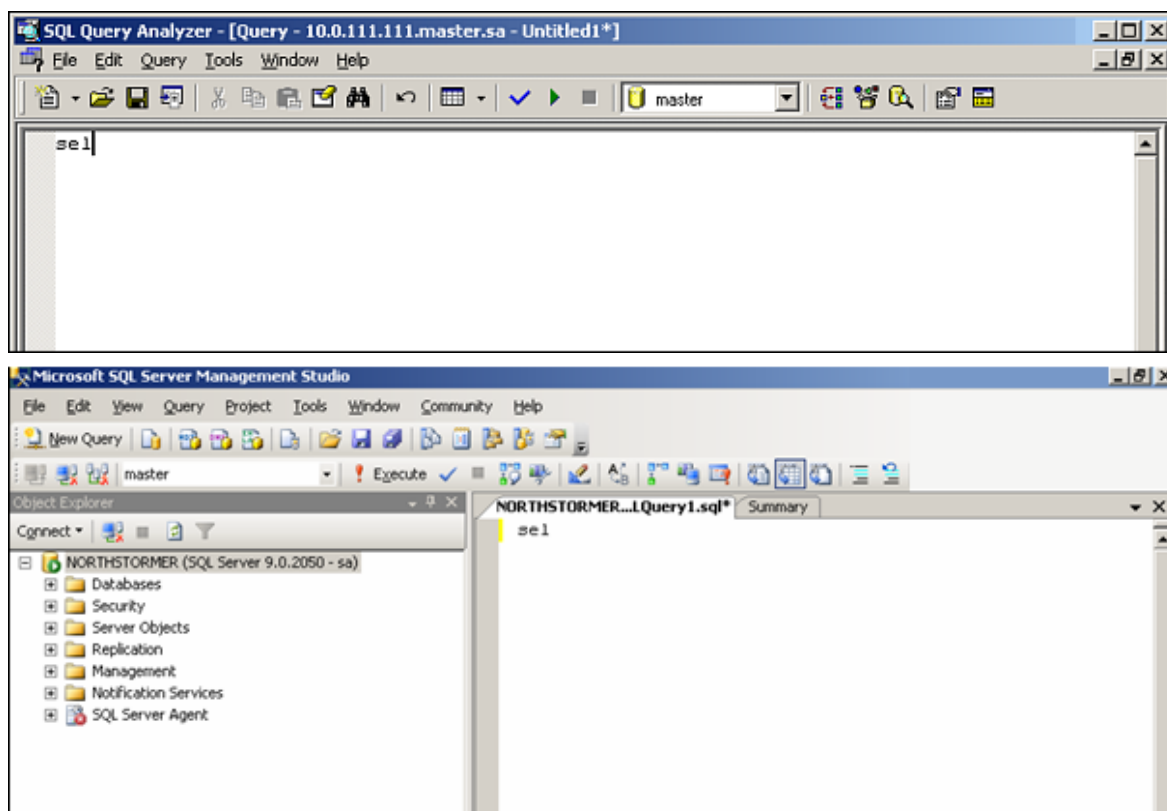
where the `<event ID>` and `<column ID>` to be traced have been specified. To fine-tune or modify the events to be traced, see the `sp_trace_setevent` Transact-SQL statement in *SQL Server 2005 Books Online* for all event IDs and column IDs supported.



For events to be parsed properly, be sure to select the same columns for each event type you trace.

Using the Sample Procedure

1. Perform the following steps from the SQL Query Analyzer. You can run SQL Query Analyzer directly from the **Start** menu, or you can run it from inside SQL Server Enterprise Manager.



2. Copy the content of the procedure to the SQL Query Analyzer new query pane, saving it as AuditTrcProc.sql.
3. Execute the procedure with the following SQL command:

```
EXEC AuditTrcProc
```
4. Make this procedure start automatically when the SQL Server restarts by executing the following command:

```
USE master  
EXEC sp_procoption 'AuditTrcProc', 'startup', 'TRUE';
```
5. Verify whether the audit is being enabled as expected by running the following query:

```
SELECT * FROM :: fn_trace_getinfo(default)
```
6. Exit from the SQL Query Analyzer.

C2 Auditing

The **c2 audit mode** option is used to review both successful and unsuccessful attempts to access statements and objects. With this information, you can document system activity and look for security policy violations.

C2 auditing tracks C2 audit events and records them to a file in the `\mssql\data` directory for default instances of SQL Server, or the `\mssql$instanceName\data` directory for named instances of SQL Server. If the file reaches a size limit of 200 MB, C2 auditing will start a new file, close the old file, and write all new audit records to the new file. This process continues until SQL Server is shut down or auditing is turned off.

Implications with C2 Auditing

Note the following implications with C2 auditing:

- As a best practice, store databases and their transaction logs on a dedicated disk device to avoid the following issues:
 - On a system that has limited disk space, you might find that our databases cannot grow because audit log files are consuming all the free space.
 - On a busy system, performance might suffer because both the databases and the audit logs use the same disk.
- SQL Server writes all auditable activity to a file with the format `audittrace_YYYYMMDDHHMMSS.trc` where `YYYYMMDDHHMMSS` is the log's creation time by year, month, day, hour, minute, and second. When a log reaches a maximum size of 200 MB, SQL Server automatically creates a new log and begins to record to the new log instead. This feature lets you safely move old log files out of the data folder or delete them.
- If SQL Server cannot write to a log file (for example, if the disk contains no more free space), it will halt all execution. SQL Server does not restart until it can resume logging. If you need to force SQL Server to run even though logging is not possible, you can use the `-f` flag to start a minimal SQL Server configuration from the command line. Using the `-m` flag with the `-f` flag starts the database in single-user mode, preventing clients from connecting to the database and performing transactions while auditing is disabled.

Enabling C2 Auditing from Command Line

1. Run the following query:

```
USE master
EXEC sp_configure 'show advanced option','1'
RECONFIGURE
GO
USE master
EXEC sp_configure 'c2 audit mode','1'
RECONFIGURE
```

2. Stop and start the server for C2 audit mode to take effect.

Enabling C2 Auditing with SQL Query Analyzer

Before enabling C2 auditing, note the following:

- You must be a member of the sysadmin role to enable or disable C2 auditing.
- You must have Sysadmin privilege to enable or disable this option.
- C2 audit mode is an advanced option. If you are using the sp-configure system stored procedure to change the setting, you can change C2 audit mode only when 'show advanced options' is set to '1.'

To enable C2 auditing with SQL Query Analyzer:

1. In the SQL Query Analyzer, enable the show advanced options configuration option using the following command:

```
USE master
EXEC sp_configure 'show advanced option', '1'
RECONFIGURE
```

2. To enable the feature, set c2 audit mode to 1 using the following command:

```
sp_configure 'c2 audit mode', 1
go
```

3. To disable the feature, set c2 audit mode to 0:

```
sp_configure 'c2 audit mode', 0
go
```

4. Stop and start the server for C2 audit mode to take effect.

After you enable C2 auditing for the default database or for an instance, the database server will log all activity to the data directory you specified during the installation process. (SQL Server does not let you log auditable events to an alternative location.) This directory holds the databases that SQL Server initially created. This directory is also the default location for all new databases and their transaction log files.

Installing the SmartConnector

The following sections provide instructions for installing and configuring your selected SmartConnector.

ArcSight recommends that you do not install database connectors on the database server or any mission critical servers as this might cause performance issues.

Preparing to Install Connector

Before you install any SmartConnectors, make sure that the Micro Focus ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger).

For complete product information, refer to the *Administrator's Guide to ArcSight Platform*, available on [ArcSight Documentation](#).

If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* available on [ArcSight Documentation](#) for instructions.

Before installing the SmartConnector, make sure that the following are available:

- Local access to the machine where the SmartConnector is to be installed
- Administrator passwords

Installing and Configuring the SmartConnector

1. Start the installation wizard.
2. Follow the instructions in the wizard to install the core software.
3. Exit the installation wizard.
4. Copy the jar file associated with the version of the driver that you downloaded earlier to `$ARCSIGHT_HOME/current/user/agent/lib`
5. (Optional) To use JDBC driver with SmartConnectors to connect to Microsoft SQL Servers by using Windows authentication, copy the `sqljdbc_auth.dll` file from the JDBC driver download to the `$ARCSIGHT_HOME\jre\bin` directory.

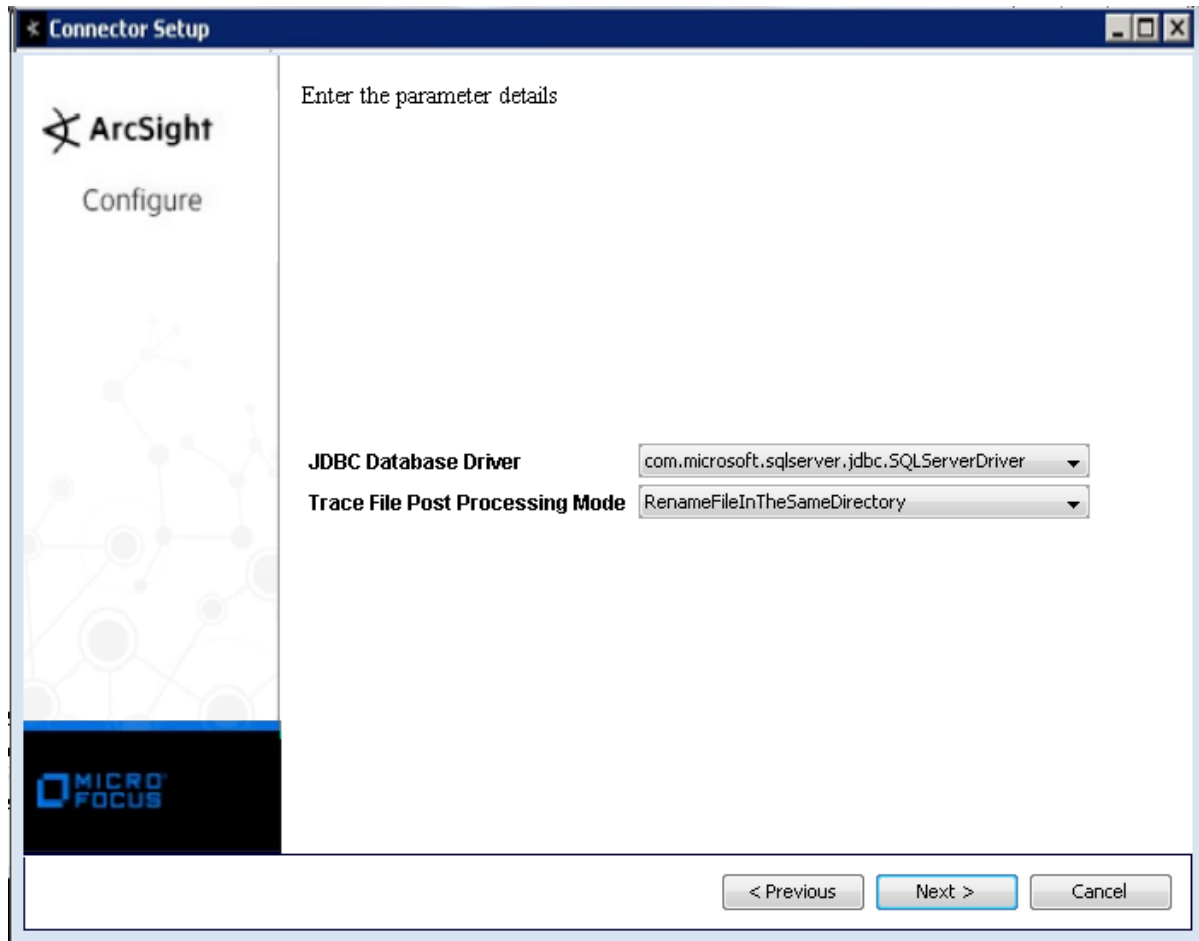
An example of The JDBC driver download path for SQL JDBC driver is:

- For version 4.0 for 32-bit environment is `sqljdbc_4.0\enu\auth\x86\sqljdbc_auth.dll`
- For 64-bit environment, `sqljdbc_4.0\enu\auth\x64\sqljdbc_auth.dll`



Note: If you are upgrading the SmartConnector, you must copy the authentication file to `$ARCSIGHT_HOME\jre\bin` again after update, as the upgrade process overwrites the `$ARCSIGHT_HOME\jre\bin` directory.

6. To add the JDBC driver to Connector Appliance or to ArcMc, see, [Adding a JDBC Driver to the Connector Appliance/ArcSight Management Center](#).
 7. Copy certificate and JDBC files to SmartConnector folders as follows:
 - Copy the `jssecacerts` certificate that you installed during the device configuration to the SmartConnector installation folder `$ARCSIGHT_HOME/current/jre/lib/security`.
-
- Note:** You must copy this file again to the installation folder after upgrading the SmartConnector as this file gets overwritten during the upgrade process.
- Copy the `vjdbc.jar` and `commons-logging-1.1.jar` files to the SmartConnector installation folder `$ARCSIGHT_HOME/current/user/agent/lib`. These files are located in the `lib` directory that was created when you downloaded the JDBC driver and unzipped the package.
 8. Browse to `$ARCSIGHT_HOME/current/bin`, then double-click `runagentsetup.bat` file to start the SmartConnector Configuration Wizard.
 9. Specify the relevant Global Parameters, when prompted.
 10. Select **Microsoft SQL Server Multiple Instance Audit DB** from the Type drop-down, then click **Next**.
 11. Enter the following SmartConnector parameters to configure the SmartConnector, then click **Next**.




Parameters	Description
Windows Share Domain	Not shown for Windows platforms. Enter the name of the domain to be shared.
Windows Share User	Not shown for Windows platforms. Enter the name of the user for the Share Domain.



Configuration for Microsoft SQL Server Multiple Instance Audit DB SmartConnector

Installing the SmartConnector

Parameters	Description
Windows Share Password	Not shown for Windows platforms. Enter the password for the Windows Share User.
JDBC Database Driver	Select the database driver com.microsoft.sqlserver.jdbc.SQLServerDriver.
Trace File Post Processing Mode	Values that can be set for this field are 'RenameFileInTheSameDirectory', 'DeleteFile', or 'PersistFile'. The connector performs some tests during configuration to make sure the folder on the SQL Server Instance containing the trace files has permissions to perform the post processing operation "DeleteFile' or 'RenameFileInTheSameDirectory'. If Post Processing Mode is set to one of these values and the trace file folder does not have permissions, the configuration setup warns you. It performs the same checks when the connector is run, and the connector will not process any trace files if the trace file folder does not have permissions for the post processing mode selected. This parameter has been implemented to prevent kernel panic on the Connector Appliance caused by read-only CIFS shares containing the trace files. The default value is 'RenameFileInTheSameDirectory'.

12. Click Add, then specify the following parameters:

Parameter	Description
URL	<p>Enter jdbc:sqlserver://<MS SQL Server Host Name or IP Address>:1433;DatabaseName=<MS SQL Server Database Name>, substituting actual values for <MS SQL Server Host Name or IP Address> and <MS SQL Server Database Name>.</p> <p>If you are configuring additional databases, click Add each time you want to enter a new row for each new database or instance. Change the URL for the database driver and the other values as appropriate.</p> <div style="border: 1px solid #0070c0; padding: 10px; margin-top: 10px;">  <p>NOTE: With Windows authentication, the local and remote machines must be on the same domain, and the user must have full control permissions to access the trace file folder on the remote machine.</p> </div>
User	Enter the login name of the user that you created on the DC machine in Create a Domain User from the Domain Controller .
Password	Enter the password assigned to the DC SQL Server user.

Parameter	Description
Audit Type	Select C2_AUDIT or GENERAL_AUDIT. If you want both types of audit on the same database instance, add one row to the parameter entry table selecting GENERAL_AUDIT and another row specifying the same database instance, but with C2_AUDIT selected.
Trace File Local Folder	Enter the path specifying the local folder on the SQL Server machine (for example, c:\sqltrace) to which the SQL Server Audit trace files are written. When typing back slashes in the file path, it is not necessary to escape them in the Installation Wizard. They are automatically escaped. If you enter the file path in the Agent Configuration Wizard later, the backslashes must be escaped.
Connector Data Folder	<p>Enter the path specifying the local folder on the SmartConnector machine to which the SQL Server Audit trace files are written.</p> <p>Scenario #1: When SQL Server and the SmartConnector are installed on the same machine, enter the same folder path specified for the "Trace Local Folder" parameter. (For example: c:\sqltrace.)</p> <p>Scenario #2: When the SmartConnector is installed on a Windows machine separate from the SQL Server, map a network drive on the SmartConnector machine to the shared folder on the SQL Server machine. (For example, map c:\sqltrace on SQL Server machine to z:\ on the SmartConnector machine.) Then, type the network share drive (z:\) as the value in the Connector Data Folder field.</p> <div style="border: 1px solid #0070C0; padding: 10px; margin: 10px 0;"> <p> Note: When running the SmartConnector as a service, mapped drives do not work. For a service, use the remote network shared drives in the UNC Notation (For example \\servername.name.domain.com\foldername). When typing back slashes in the file path, it is not necessary to escape them in the Installation Wizard. They are automatically escaped. If you enter the file path in the Agent Configuration Wizard later, the backslashes must be escaped.</p> </div> <p>Scenario #3: When installing the SmartConnector on Linux, use a mounted drive (e.g. /mnt/mssql) as the value in the "Connector Data Folder" field. Please see the "Mount a Drive on Linux Platforms" for more information.</p> <div style="border: 1px solid #0070C0; padding: 10px; margin: 10px 0;"> <p> NOTE: If you use mapped drives, be aware of potential problems after a system reboot when SQL Server is started automatically. SQL Server will often start before the shares have been mapped and can cause a warning of a potential problem that occurs because the database engine could not open the database files. To solve this, restart SQL Server to reset the suspect flag or flags. If you use mapped files, it is a good idea to configure SQL Server to start manually after a system reboot.</p> </div>

13. You can click the **Export** to export the host name data you have entered into the table into a CSV file or click **Import** to select a CSV file to import into the table rather than add the

data manually.

14. Select a destination and configure parameters.
15. Specify a name for the connector.
16. If you have selected ArcSight Manager as the destination, the certificate import window for the ArcSight Manager is displayed. Select **Import the certificate to the connector from destination** and click **Next**. (If you select **Do not import the certificate to connector from destination**, the connector installation will end.) The certificate is imported and the **Add connector Summary** window is displayed.
17. Select whether you want to run the connector as a service or in the standalone mode.
18. Complete the installation.
19. Run the SmartConnector.

For instructions about upgrading the connector or modifying parameters, see [SmartConnector Installation and User Guide](#).



Note: When using Windows authentication, after completing the connector installation, if running on a Windows Server, change the service account to use the Windows account that should log in to the database. The connector will use the account used to start the service, regardless of the account value setting entered in the connector setup process.

Adding a JDBC Driver to the Connector Appliance/ArcSight Management Center

After downloading and extracting the JDBC driver, upload the driver into the repository and apply it to the required containers, as follows:

1. From the Connector Appliance/ArcSight Management Center, select **Setup > Repositories**.
2. Select **JDBC Drivers** from the left pane and click the **JDBC Drivers** tab.
3. Click **Upload to Repository**.
4. From the **Repository File Creation Wizard**, select **Individual Files**, then click **Next**.
5. Retain the default selection and click **Next**.
6. Click **Upload** and locate and select the .jar file you downloaded.
7. Click **Submit** to add the specified file to the repository and click **Next** to continue.
8. After adding all the files you require, click **Next**.
9. In the **Name** field, enter a descriptive name for the zip file (for example, JDBCdriver). Click **Next**.

10. Click **Done** to complete the process. The newly added file is displayed in the **Name** field under **Add Connector JDBC Driver File**.
11. To apply the driver file, select the driver .zip file and click the up arrow to invoke the **Upload Container Files** wizard. Click **Next**.
12. Select one or more containers into which you want to upload the driver, then click **Next**.
13. Click **Done** to complete the process.
14. Add the connector through the Connector Appliance/ArcSight Management Center interface. For more information, see the *Connector Appliance/ArcSight Management Center Online Help*.

Running the Connector with a Standard Domain User Account

A Standard Domain User account can be used to run the connector only when the Microsoft SQL Server is set to Windows Authentication mode. Certain limitations apply related to the choice of the connector installation host, which are explained below. Configuration steps are required from the Domain Controller, the Microsoft SQL Server 2005 Host, and on the connector host, as described in the following sections.

On the Domain Controller

1. Create a new user account (for example, *arcsight*).
2. Add this new user to the **Remote Desktop Users** group.

On the Microsoft SQL Server 2005 Host

1. Open the MS SQL Server Management Studio to set the MS SQL Server to Windows Authentication mode.
2. From Object Explorer in the left pane, select the MS SQL Server host of interest, then right-click and select **Properties**.
3. Click the **Security** tab and set the **Server Authentication** to **Windows Authentication** mode. Click **OK**.
4. Restart the MS SQL Server service.
5. Return to the MS SQL Server Management Studio to set the appropriate permissions for the Standard Domain User *arcsight*.
6. From Object Explorer in the left pane, select the MS SQL Server host of interest and expand its tree.
7. Go to **Security > Logins**, then right-click and select **New Login**.
8. Click the **General** tab. Populate the **Login Name** box by using **Search** to select the new domain user *arcsight*. The option of Windows Authentication is automatically selected. The default database is automatically set to *master*.
9. Click the **User Mapping** tab. Select the *master* database.
10. Click the **Status** tab. **Permission to connect to database engine** is automatically set to **Grant** and **Login** is automatically set to **Enabled**. Click **OK**.

11. Go to **Databases > System Databases**, right-click *master* and select **Properties**.
12. Click the **Permissions** tab. From the **Users or roles** table, select the domain user *arcsight*.
13. From the **Explicit Permissions** table, select the **Grant** option for the **Connect, Execute, Select, and View** database state permissions. Click **OK**.
14. Select the MS SQL Server host of interest, right-click and select **Properties**.
15. Click the **Security** tab. In the **Server proxy account** section, select **Enable server proxy account**. Set the **Proxy account** and **Password** fields to the domain user *arcsight* and its password. Click **OK**.
16. Click the **Permissions** tab and select the domain user *arcsight* from the **Logins or roles** table.
17. From the **Explicit Permissions** table, select the **Grant** option for the **Alter trace, Connect SQL, and View server state** permissions. Click **OK**.
18. In Windows Explorer, go to the folder where the trace files are being logged (for example, `c:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\LOG`). Right-click and select **Sharing and Security**.
19. Click the **Sharing** tab and select **Share this folder**. Provide a share name if one is not present (for example, **LOG**). Click **Apply**.
20. Click the **Security** tab and go to the **Group or user names** table. Using **Add**, add the domain user *arcsight* and select that user.
21. For the selected *arcsight* user, go to the **Permissions for** table and select all the permissions available, including **Full Control**. Click **Apply**.
22. Now click **Advanced** and a new window entitled **Advanced Security Settings for** is displayed.
23. Go to the **Permission entries** table and select the user *arcsight*. Click **Edit** and ensure that all the permissions are **Allowed for This folder, subfolders and files**. Click **OK**.
24. For the selected *arcsight* user, select the option **Replace permission entries on all child objects with entries shown here that apply to child objects**. Click **Apply**. A new dialog box displays the message "This will remove explicitly defined permissions on all child objects and enable propagation of inheritable permissions to those child objects. Only inheritable permissions propagated from <share name> will take effect. Do you wish to continue?" Click **Yes**. Click **OK**.
25. Click **OK**.

On the Connector Host

When using Windows Authentication mode on the MS SQL Server, access to the SQL Server is possible only from Windows hosts belonging to the same domain as the domain of the MS SQL

Server host. Using Windows hosts whose domain has a trust relationship with the domain of the MS SQL Server host has not been verified.

Using a non-Windows host with the Windows authentication mode enabled is not supported, even when you are using a JDBC driver, because that non-Windows host is not part of a Windows domain, which is a requirement.

Make sure that you log in to the connector host with the same Standard Domain User account **arcsight**, for which all the permissions to access the MS SQL Server trace files have been set.

Creating the Trace File Access Share

If you have already mapped a Network drive to access the trace files on the MS SQL Server, disconnect and remove that share. Create the network share again to access the Trace files on the MS SQL Server. Ensure that you can rename any old trace file and set it back to its original file name.

Changing the Name of Processed Files

To change the name of processed trace files:

1. From the `$ARCSIGHT_HOME\current\user\agent` directory, open `agent.properties` to edit.
2. Locate the `eventlogtypes` parameter. Enter the appropriate event log names. The initial value is null.
3. Locate the `mode` and `modeoptions` parameters. Change the mode to `RenameFileInTheSameDirectory` to rename the file.
4. Enter a string for the `modeoptions` parameter. This string will be the suffix.

For example, if you enter `processed`, the file name is renamed to `xxxx.processed`.



Specifying **DeleteFile** will cause the file to be deleted. Specifying **RenameFileInTheSameDirectory** will cause the file to be renamed in the same directory. Using **PersistFile** will cause the file to be persisted.

Device Event Mapping to ArcSight Fields

The following section lists the mappings of ArcSight data fields to the device's specific event definitions. See the *ArcSight Console User's Guide* for more information about the ArcSight data fields.

SQL Server Mappings to ArcSight ESM Events

ArcSight ESM Field	Device-Specific Field
Destination Host Name	ServerName
Destination NT Domain	NTDomainName
Destination Process Name	SPID
Destination User Name	LoginName
Destination User Privileges	Permissions
Device Action	EventClass
Device Custom Number 1	Duration
Device Custom Number 2	Reads
Device Custom Number 3	Writes
Device Custom String 1	ObjectName
Device Custom String 2	DatabaseName
Device Custom String 3	FileName
Device Custom String 4	OwnerName
Device Custom String 5	LoginSid
Device Custom String 6	_DB_NAME
Device Event Class ID	EventClass Success EventSubClass
Device External ID	DatabaseID
Device Host Name	One of (_DB_HOST, _DB_DSN)
Device Product	'SQL Server'
Device Receipt Time	StartTime
Device Severity	EventClass Success EventSubClass

ArcSight ESM Field	Device-Specific Field
Device Vendor	'Microsoft'
Device Version	'Unknown'
Event Outcome	One of ('Success', 'Failure')
Flex Number 1	CPU
Message	TextData
Reason	errorCode
Source Host Name	HostName
Source Process Name	ClientProcessID
Source Service Name	ApplicationName
Target Host Name	ServerName

Audit Events 104, 105, 106, 107

ArcSight ESM Field	Device-Specific Field
Destination User Name	TargetLoginName
Source Host Name	ServerName
Source NT Domain	NTDomainName
Source Process Name	SPID
Source User Name	One of (SessionLoginName, LoginName)

Audit Event 108

ArcSight ESM Field	Device-Specific Field
Destination User Name	TargetLoginName
Device Custom String 6	RoleName
Source Host Name	ServerName
Source NT Domain	NTDomainName
Source Process Name	SPID
Source User Name	One of (SessionLoginName, LoginName)

Audit Event 109

ArcSight ESM Field	Device-Specific Field
Destination User ID	TargetLoginName
Destination User Name	TargetUserName
Device Custom String 6	RoleName
Source Host Name	ServerName
Source NT Domain	NTDomainName
Source Process Name	SPID
Source User Name	One of (SessionLoginName, LoginName)

Audit Event 110

ArcSight ESM Field	Device-Specific Field
Destination User Name	TargetUserName
Device Custom String 6	RoleName
Source Host Name	Servername
Source NT Domain	NTDomainName
Source Process Name	SPID
Source User Name	One of (SessionLoginName, LoginName)

Audit Event 111

ArcSight ESM Field	Device-Specific Field
Device Custom String 6	RoleName

Troubleshooting

"What do I do when the connector can't reconnect to the MS SQL Server database?"

In some cases, connectors using MS SQL Server databases are unable to reconnect to the database after losing and reacquiring network connection. Restarting the connector will resolve this problem.

"How do I deploy SQL Server Native Client?"

When deploying an application that is dependent on SQL Server Native Client, you will need to redistribute SQL Server Native Client with your application. Unlike Microsoft Data Access Components (MDAC), which is now a component of the operating system, SQL Server Native Client is a component of SQL Server. Therefore, it is important to install SQL Server Native Client in your development environment and redistribute SQL Server Native Client with your application.

The SQL Server Native Client redistributable installation program, named sqlncli.msi, is available on the SQL Server installation media and is available as one of the SQL Server Feature Pack components on the Microsoft Download site. For more information about deploying SQL Server Native Client with your application, see "Deploying Applications with SQL Server Native Client" available from Microsoft.

"Why does my connection to SQL Server fail/hang?"

Oracle has released Java 6 update 30 (6u30) that behaves differently from JRE 6u29, causing possible database connection problems for SQL Server database connectors using JDBC connection. These connection problems can occur with JRE 1.6.0_29 (6u29) and later versions.

Microsoft recommends using JRE 6u30 (and above) instead of JRE 6u29. Apply the "SQL Server 2008 R2 Service Pack 1 Cumulative Update 6" patch to the SQL server if you are experiencing connection failures or hangs.

"Why am I receiving the message 'Login failed for user 'sqluser'. The user is not associated with a trusted SQL Server connection.'"

Only Microsoft JDBC driver v4 or later support integrated authentication. The driver also does not provide function to supply Windows authentication credentials such as user name and password. In such cases, the applications must use SQL Server Authentication. When installing the connector on a non-Windows platform, configure the Microsoft SQL Server for Mixed Mode Authentication or SQL Server Authentication.

"How can I keep the connector from becoming clogged with events after being shut down for awhile?"

If the connector is shut down for some time on an active database, a lot of events can accumulate that can clog the connector on restart. The `preservestate` parameter can be used to avoid this situation. This parameter is enabled (true) by default. Setting `preservestate` to disabled (false) in the `agent.properties` file allows the connector to skip the old events and start from real time. The `agent.properties` file is located in the `$ARCSIGHT_HOME\current\user\agent` folder. Restart the connector for your change to take effect.

"What do I do when I receive "Connector parameters did not pass the verification with error ..." message?"

You may not have the correct version of jar file. When you download the JDBC driver, the version of the jar file depends on the version of JRE the connector uses. Versions 7.2.1 and later use JRE 1.8 and require `sqljdbc42.jar`. Versions 7.1.2 and later use JRE 1.7 and require `sqljdbc41.jar`. Prior versions of the connector that run JRE 1.6 require `sqljdbc4.jar`.

please confirm that when customer used MySQL JDBC driver 5.1.38, they had issue to receive events. And the workaround is to apply older driver 5.0.8, after that connector is able to received events.

"If multiple SQL DB instances on the same host are depositing their Trace files into a common folder, will one MS SQL connector instance retrieve all audit events?"

Yes. But there must be a separate table entry for each instance and the trace files from each of the instances must be identified somehow uniquely; for example, by the instance name itself. Then the wildcard parameter could be specified separately for each of the entries. If the wildcard is not unique, there would be a problem because the connector launches multiple threads monitoring the same folder and processing the same files. The behavior would be somewhat unpredictable.

"I started the connector and there is no error in agent.log, but I did not get any events. Why is that?"

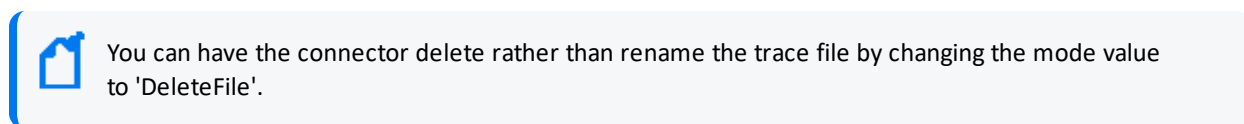
First check whether you did enable the audit by querying the database (as indicated in "Configuration"). If you did enable the audit, you may not have received any events because the SQL Server will hold the trace file until the file reaches the 1 MB size, then rotate. If you did not audit a number of high traffic events, chances are that you will wait for some time. Try to look at the folder on the machine the connector is monitoring.

"Why do I receive a 'the trace file is not ready for processing' message?"

This message is normal for the trace file to which SQL Server is currently writing because that file is not finished yet and hence not ready for processing. If it is occurring for all the trace files, there usually is a permission problem wherein the connector does not have the permission to rename the trace file. If you do not want the files renamed, you can change the **Trace File Post Processing Mode** parameter to `PersistFile`, in which case the connector just remembers the files it has processed. To do this:

- 1 From a DOS prompt, go to the `$ARCSIGHT_HOME\current\bin` directory.

- 2 Double-click `runagentsetup.bin`.
- 3 Select **Modify Connector**; click **Next**.
- 4 Select **Modify connector parameters**; click **Next**.
- 5 Select **PersistFile** for the **Trace File Post Process Mode** parameter.
- 6 Click **Next** to continue. Click **Next** on the **Modify table parameters** window.
- 7 Click **Next** on the **Successfully updated parameters** window, and then check **Exit** and click **Next** to exit the wizard.



- 8 Restart the SmartConnector for your change to take effect.

"Why did I receive a message that the xp_cmdshell module has been turned off?"

With Microsoft SQL Server 2005, the xp_cmdshell module is turned OFF by default. To turn it on, there is a "Surface Area Configuration" tool in Microsoft SQL Server Programs group that will let you configure this, or you can enter the following commands in SQL Query Analyzer:

```
EXECUTE sp_configure 'show advanced options', 1
RECONFIGURE WITH OVERRIDE
GO
EXECUTE sp_configure 'xp_cmdshell', '1'
RECONFIGURE WITH OVERRIDE
GO
EXECUTE sp_configure 'show advanced options', 0
RECONFIGURE WITH OVERRIDE
GO
```

"What is the recommended configuration?"

It depends upon the case. For example, say we have an SQL Server machine (named S) and a connector machine (named A). If the database is busy, remotely install the connector; then, with the connector installed in A, monitor the folder remotely.

"What is the default size the SQL Server rotates for C2 Audit as well as for general auditing?"

C2 auditing rotation size is 200 M, which cannot be changed. General auditing rotation size is from 1 M to 5 M (the sample SQL above is configured to 1 M because we want the events loaded and sent to ArcSight Manager as quickly as possible).

"I run my connector as a service through the UNC path for access and DSN. The service failed to start, why is that?"

First, check the case we answered in the first question, then make sure to right-click on the Connector service name to make sure the Windows user can access the remote SQL Server Windows machine, and that this user can start the local Windows service. You can always right-click on the service name, select Properties, and change "Log on as" to "This account" to use a different user for test.

One use case is that if you configure the SQL Server to log trace to c:\trace (for example), you set up a scheduled job to move the trace files from time-to-time to c:\tmpdata (for example), and then you let the Connector in machine A monitor the \\S\tmpdata folder. In this case, when you configure the Connector, you would set the parameter as follows:

```
Folder of Trace Data File (Read by connector) \\S\tmpdata
Trace File Folder on Local SQL Server Machine C:\tmpdata
```

The cronjob can be as simple as (for example): Move c:\trace\sessiontrace*.trc
c:\tmpdata

Note that the latest file is always held by the SQL Server until it reaches a certain size, then is rotated.

Another use case is to monitor the c:\trace above directly, whether locally or remotely. For example, if the connector monitors the folder remotely, then the folder of trace data files (read by the connector) is **\\S\trace**. The trace file folder on the local SQL Server machine is **C:\trace**.

SQL Server Sample Audit Procedures

To enable automatic auditing upon server startup, create a procedure to enable the auditing function. Three sample procedures are provided to assist you in this task. These procedures enable auditing and specify the events to be audited.

SQL Server 2008 and Later

```
CREATE PROC AuditTrcProc AS

-- Create a Queue declare @rc int declare @TraceID int declare @maxfilesize
bigint set @maxfilesize = 1

-- Please replace the file name with an appropriate file name prefixed by a
path,

e.g., C:\sqltrace\sessionTrace.

-- The .trc extension will be appended to the filename automatically.

-- If you are writing from remote server to local drive, use UNC path and
make sure server has write access to your network share

declare @cmd sysname

set @cmd = 'copy c:\sqltrace\sessiontrace.trc c:\sqltrace\sessiontrace' +
cast(cast(rand() * 1000000 as int) as varchar) print @cmd

exec master..xp_cmdshell @cmd

set @cmd= 'del c:\sqltrace\sessiontrace.trc' print @cmd

exec master..xp_cmdshell @cmd

exec @rc = sp_trace_create @TraceID output, 2, N'c:\sqltrace\sessiontrace',
@maxfilesize, null if (@rc != 0) goto error

-- Client side File and Table cannot be scripted

-- Set the events and columns declare @on bit set @on = 1

exec sp_trace_setevent @TraceID, 10, 1, @on

exec sp_trace_setevent @TraceID, 10, 3, @on
```

```
exec sp_trace_setevent @TraceID, 10, 6, @on
```

```
exec sp_trace_setevent @TraceID, 10, 7, @on
```

```
exec sp_trace_setevent @TraceID, 10, 8, @on
```

```
exec sp_trace_setevent @TraceID, 10, 9, @on
```

```
exec sp_trace_setevent @TraceID, 10, 10, @on
```

```
exec sp_trace_setevent @TraceID, 10, 11, @on
```

```
exec sp_trace_setevent @TraceID, 10, 12, @on
```

```
exec sp_trace_setevent @TraceID, 10, 13, @on
```

```
exec sp_trace_setevent @TraceID, 10, 14, @on
```

```
exec sp_trace_setevent @TraceID, 10, 15, @on
```

```
exec sp_trace_setevent @TraceID, 10, 16, @on
```

```
exec sp_trace_setevent @TraceID, 10, 17, @on
```

```
exec sp_trace_setevent @TraceID, 10, 18, @on
```

```
exec sp_trace_setevent @TraceID, 10, 21, @on
```

```
exec sp_trace_setevent @TraceID, 10, 23, @on
```

```
exec sp_trace_setevent @TraceID, 10, 26, @on
```

```
exec sp_trace_setevent @TraceID, 10, 27, @on
```

```
exec sp_trace_setevent @TraceID, 10, 34, @on
```

```
exec sp_trace_setevent @TraceID, 10, 35, @on
```

```
exec sp_trace_setevent @TraceID, 10, 36, @on
```

```
exec sp_trace_setevent @TraceID, 10, 37, @on
```

```
exec sp_trace_setevent @TraceID, 10, 38, @on
```

```
exec sp_trace_setevent @TraceID, 10, 39, @on
```

```
exec sp_trace_setevent @TraceID, 10, 41, @on
```

```
exec sp_trace_setevent @TraceID, 10, 42, @on
```

```
exec sp_trace_setevent @TraceID, 10, 43, @on
```

```
exec sp_trace_setevent @TraceID, 10, 64, @on
```

```
exec sp_trace_setevent @TraceID, 12, 1, @on
```

```
exec sp_trace_setevent @TraceID, 12, 3, @on
```

```
exec sp_trace_setevent @TraceID, 12, 6, @on
```

```
exec sp_trace_setevent @TraceID, 12, 7, @on
```

```
exec sp_trace_setevent @TraceID, 12, 8, @on
```

```
exec sp_trace_setevent @TraceID, 12, 9, @on
```

```
exec sp_trace_setevent @TraceID, 12, 10, @on
```

```
exec sp_trace_setevent @TraceID, 12, 11, @on
```

```
exec sp_trace_setevent @TraceID, 12, 12, @on
```

```
exec sp_trace_setevent @TraceID, 12, 13, @on
```

```
exec sp_trace_setevent @TraceID, 12, 14, @on
```

```
exec sp_trace_setevent @TraceID, 12, 15, @on
```

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exec sp_trace_setevent @TraceID, 12, 16, @on
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exec sp_trace_setevent @TraceID, 12, 17, @on
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exec sp_trace_setevent @TraceID, 12, 18, @on
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exec sp_trace_setevent @TraceID, 12, 21, @on
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exec sp_trace_setevent @TraceID, 12, 23, @on
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exec sp_trace_setevent @TraceID, 12, 26, @on
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exec sp_trace_setevent @TraceID, 12, 27, @on
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exec sp_trace_setevent @TraceID, 12, 34, @on
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exec sp_trace_setevent @TraceID, 12, 35, @on
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exec sp_trace_setevent @TraceID, 12, 36, @on
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exec sp_trace_setevent @TraceID, 12, 37, @on
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```
exec sp_trace_setevent @TraceID, 12, 38, @on
```

```
exec sp_trace_setevent @TraceID, 12, 39, @on
```

```
exec sp_trace_setevent @TraceID, 12, 41, @on
```

```
exec sp_trace_setevent @TraceID, 12, 42, @on
```

```
exec sp_trace_setevent @TraceID, 12, 43, @on
```

```
exec sp_trace_setevent @TraceID, 12, 64, @on
```

```
exec sp_trace_setevent @TraceID, 14, 1, @on
```

```
exec sp_trace_setevent @TraceID, 14, 3, @on
```

```
exec sp_trace_setevent @TraceID, 14, 6, @on
```

```
exec sp_trace_setevent @TraceID, 14, 7, @on
```

```
exec sp_trace_setevent @TraceID, 14, 8, @on
```

```
exec sp_trace_setevent @TraceID, 14, 9, @on
```

```
exec sp_trace_setevent @TraceID, 14, 10, @on
```

```
exec sp_trace_setevent @TraceID, 14, 11, @on
```

```
exec sp_trace_setevent @TraceID, 14, 12, @on
```

```
exec sp_trace_setevent @TraceID, 14, 13, @on
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```
exec sp_trace_setevent @TraceID, 14, 14, @on
```

```
exec sp_trace_setevent @TraceID, 14, 15, @on
```

```
exec sp_trace_setevent @TraceID, 14, 16, @on
```

```
exec sp_trace_setevent @TraceID, 14, 17, @on
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exec sp_trace_setevent @TraceID, 14, 18, @on
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exec sp_trace_setevent @TraceID, 14, 21, @on
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exec sp_trace_setevent @TraceID, 14, 23, @on
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exec sp_trace_setevent @TraceID, 14, 26, @on
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exec sp_trace_setevent @TraceID, 14, 27, @on
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exec sp_trace_setevent @TraceID, 14, 34, @on
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exec sp_trace_setevent @TraceID, 14, 35, @on
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exec sp_trace_setevent @TraceID, 14, 36, @on
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```
exec sp_trace_setevent @TraceID, 14, 37, @on
```

```
exec sp_trace_setevent @TraceID, 14, 38, @on
```

```
exec sp_trace_setevent @TraceID, 14, 39, @on
```

```
exec sp_trace_setevent @TraceID, 14, 41, @on
```

```
exec sp_trace_setevent @TraceID, 14, 42, @on
```

```
exec sp_trace_setevent @TraceID, 14, 43, @on
```

```
exec sp_trace_setevent @TraceID, 14, 64, @on
```

```
exec sp_trace_setevent @TraceID, 15, 1, @on
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exec sp_trace_setevent @TraceID, 235, 41, @on
exec sp_trace_setevent @TraceID, 235, 42, @on
exec sp_trace_setevent @TraceID, 235, 43, @on
exec sp_trace_setevent @TraceID, 235, 64, @on

-- Set the Filters
declare @intfilter int
declare @bigintfilter bigint

exec sp_trace_setfilter @TraceID, 10, 0, 7, N'SQL Profiler'

-- Set the trace status to start
exec sp_trace_setstatus @TraceID, 1

-- display trace id for future references
select TraceID=@TraceID
goto finish

error:
select ErrorCode=@rc return @rc
finish: return @TraceID
```

SQL Server 2005

```
CREATE PROC AuditTrcProc AS

-- Create a Queue declare @rc int declare @TraceID int declare @maxfilesize
bigint set @maxfilesize = 1

-- Please replace the file name with an appropriate file name prefixed by a
path,

e.g., C:\sqltrace\sessionTrace.

-- The .trc extension will be appended to the filename automatically.

-- If you are writing from remote server to local drive, use UNC path and
make sure server has write access to your network share

declare @cmd sysname

set @cmd = 'copy c:\sqltrace\sessiontrace.trc c:\sqltrace\sessiontrace' +
cast(cast(rand() * 1000000 as int) as varchar) print @cmd

exec master..xp_cmdshell @cmd

set @cmd= 'del c:\sqltrace\sessiontrace.trc' print @cmd

exec master..xp_cmdshell @cmd

exec @rc = sp_trace_create @TraceID output, 2, N'c:\sqltrace\sessiontrace',
@maxfilesize, null if (@rc != 0) goto error

-- Client side File and Table cannot be scripted

-- Set the events and columns declare @on bit set @on = 1

exec sp_trace_setevent @TraceID, 10, 1, @on
exec sp_trace_setevent @TraceID, 10, 3, @on
exec sp_trace_setevent @TraceID, 10, 6, @on
exec sp_trace_setevent @TraceID, 10, 7, @on
exec sp_trace_setevent @TraceID, 10, 8, @on
exec sp_trace_setevent @TraceID, 10, 9, @on
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exec sp_trace_setevent @TraceID, 111, 64, @on
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```
-- Set the Filters declare @intfilter int declare @bigintfilter bigint
```

```
exec sp_trace_setfilter @TraceID, 10, 0, 7, N'SQL Profiler'
```

```
-- Set the trace status to start exec sp_trace_setstatus @TraceID, 1
```

```
-- display trace id for future references select TraceID=@TraceID goto finish
```

```
error:
```

```
select ErrorCode=@rc return @rc finish:
```

```
return @TraceID
```

SQL Server 2000

```
CREATE PROC AuditTrcProc AS
```

```
-- Create a Queue declare @rc int declare @TraceID int declare @maxfilesize  
bigint set @maxfilesize = 1  
  
-- Please replace the text InsertFileNameHere, with an appropriate  
-- filename prefixed by a path, e.g., c:\MyFolder\MyTrace. The .trc extension  
-- will be appended to the filename automatically. If you are writing from  
-- remote server to local drive, please use UNC path and make sure server has  
-- write access to your network share  
  
declare @cmd sysname  
  
set @cmd = 'copy c:\temp\sessiontrace.trc c:\temp\session' + cast(cast(rand()  
*  
1000000 as int) as varchar) print @cmd  
  
exec master..xp_cmdshell @cmd  
  
set @cmd= 'del c:\temp\sessiontrace.trc' print @cmd  
  
exec master..xp_cmdshell @cmd  
  
  
exec @rc = sp_trace_create @TraceID output, 2, N'c:\temp\sessiontrace',  
@maxfilesize, null if (@rc != 0) goto error  
  
-- Client side File and Table cannot be scripted  
-- Set the events declare @on bit set @on = 1  
  
  
exec sp_trace_setevent @TraceID, 10, 1, @on  
exec sp_trace_setevent @TraceID, 10, 6, @on  
exec sp_trace_setevent @TraceID, 10, 9, @on  
exec sp_trace_setevent @TraceID, 10, 10, @on  
exec sp_trace_setevent @TraceID, 10, 11, @on  
exec sp_trace_setevent @TraceID, 10, 12, @on  
exec sp_trace_setevent @TraceID, 10, 13, @on  
exec sp_trace_setevent @TraceID, 10, 14, @on  
exec sp_trace_setevent @TraceID, 10, 16, @on
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exec sp_trace_setevent @TraceID, 17, 18, @on

-- Set the Filters declare @intfilter int declare @bigintfilter bigint
exec sp_trace_setfilter @TraceID, 10, 0, 7, N'SQL Profiler'

-- Set the trace status to start exec sp_trace_setstatus @TraceID, 1

-- display trace id for future references select TraceID=@TraceID goto finish
error: select ErrorCode=@rc return @rc finish:

return @TraceID
```

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