DOCUMENTATION CONVENTIONS

Typeface Conventions

**Bold** Indicates a button, menu selection, tab, dialog box title, text to type, selections from drop-down lists, or prompts on a dialog box.

CONTACTING SCRIPTLOGIC

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SCRIPTLOGIC ON THE WEB

ScriptLogic can be found on the web at [www.scriptlogic.com](http://www.scriptlogic.com). Our web site offers customers a variety of information:

- Download product updates, patches and/or evaluation products.
- Locate product information and technical details.
- Find out about Product Pricing.
- Search the Knowledge Base for Technical Notes containing an extensive collection of technical articles, troubleshooting tips and white papers.
- Search Frequently Asked Questions, for the answers to the most common non-technical issues.
- Participate in Discussion Forums to discuss problems or ideas with other users and ScriptLogic representatives.
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What is File System Auditor?

The ScriptLogic File System Auditor, a unique solution for recording Windows file server activity, allows administrators to audit file access, generate easy-to-understand reports, and create alerts tied to file system events. Ideal for protecting confidential or sensitive data, File System Auditor assists in compliance reporting by creating an audit trail of file activity on patient records, financial reports, or other sensitive information.

File System Auditor assists in security management by sending email alerts or saving the report to a file share whenever specific file system events occur, such as failed access attempts, or modifications of a particular set of files and folders.
Installing File System Auditor

There are two components to File System Auditor: the Agent Configuration Console and the Reporting Console. From the Agent Configuration Console, you can remotely install the File System Auditor Agent on systems to be audited. The Agent consists of a file system driver and a service. You can install just the Reporting Console on systems to be used for report generation.

SQL 2000, SQL 2005, and SQL 2008 database instances (default and named) are supported, including SQL 2005 Express.
MINIMUM SYSTEM REQUIREMENTS

- Intel® Pentium® III or higher processor
- 512 MB RAM
- 50 MB free hard disk space for installation
- 100 MB free hard disk space for the database

Supported Management Platforms

Agent Configuration and Report Configuration Consoles

Note: Microsoft .NET Framework 2 is required on the Agent Configuration and Report Configuration Consoles.

- Windows 2000 SP4 with Update Rollup 1: Professional, Server
- Windows XP Professional with SP2
- Windows Server™ 2003 Family with SP1
- Windows Vista
- Windows Server 2008 Family including R2
- Windows 7

Agent

- Windows Server 2000 SP4 with Update Rollup 1
- Windows Server 2003 family with SP1
- Windows Server 2008 Family, including R2 and Server Core

Export Requirements

- Microsoft SQL Server 2000, Microsoft SQL Server 2005, Microsoft SQL Server 2008, Microsoft SQL Server 2008 R2, and Data Access Components (MDAC) 2.7

Support for iSCSI disks

File System Auditor 2 is supported on iSCSI target disks using Microsoft iSCSI Software Initiator Version 2.06 (build 3497). If you are using an earlier version of this software and are experiencing issues auditing an iSCSI target disk with File System Auditor 2, upgrade to the latest version of the Microsoft iSCSI Software Initiator, which you can find at the Microsoft Download Center: http://www.microsoft.com/downloads/
**BEFORE YOU BEGIN**

Download the latest version of the File System Auditor program from the ScriptLogic Web site: [http://www.scriptlogic.com/support](http://www.scriptlogic.com/support)

**User Privilege Requirements**

In order to install and configure File System Auditor, a user must hold administrative rights.

**INSTALLING FILE SYSTEM AUDITOR**

During the install process, you can choose to install the Agent Configuration Console and/or the Report Configuration Console. After the Agent Configuration Console is installed, you can remotely install the File System Auditor Agent on those computers you want to audit. Install the Report Configuration Console on those computers whose users need to generate reports.

1. Double-click the **FSASetup.msi** file. The **Welcome** page opens.
2. Click Next. The License Agreement page opens.

3. Select the I accept the terms in the License Agreement check box, and then click Next. The Custom Setup page opens.
**Note:** By default, both the Agent Configuration Console and the Report Configuration Console are installed. If you want to install just the Report Configuration Console, open the Agent Configuration Console list, and then choose Entire feature will be unavailable.

**To:**

- Return the selections to the default
  - **Click:** Reset

- Change the location of the program files
  - **Click:** Change Current Destination Folder
  - The Change Current Destination Folder page opens. Choose a new location for the installation directory.

- See if there is enough space to install the programs
  - **Click:** Disk Usage
  - The Disk Requirements page shows the disk space available on the drive displayed in the Install to area.
4. Click Next. The **Ready to install** page opens.

5. Click Next. The installation process begins. When the process is complete, the **Completed** page opens.

6. Click Finish.
## Starting File System Auditor

Click **Start**, point to **Programs ➤ ScriptLogic Corporation ➤ File System Auditor 2**, and then select one of the following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agent Configuration Console</td>
<td>Configure File System Auditor for data collection. See <strong>Configuring File System Auditor</strong>.</td>
</tr>
<tr>
<td>Database Wizard</td>
<td>Create and manage the auditing database[s]. See <strong>Managing the Audit Database</strong>.</td>
</tr>
<tr>
<td>FSA Getting Started Guide (PDF)</td>
<td>Opens the installation and configuration document for the Agent Configuration Console.</td>
</tr>
<tr>
<td>Report Configuration Console</td>
<td>Filter and report on data in the auditing database. See the <strong>File System Auditor Report Configuration User Guide</strong>.</td>
</tr>
<tr>
<td>Real Time Viewer</td>
<td>View data in the audit database in real-time. See <strong>Starting the Real Time Viewer</strong>.</td>
</tr>
</tbody>
</table>

Each time you run File System Auditor or File System Audit Reporter, you will be greeted by the splash screen, which displays the initialization of the program and the version number.

### Applying a License File

The first time you start File System Auditor, you see the **New Installation** box, which allows you to apply a license file or evaluate the product without a license, as well as contact ScriptLogic Corporation and visit our website for further information.

File System Auditor requires a valid license file in order to function properly. If you have a company license file or were provided with an evaluation or temporary license file, you must enter the location and filename in the **License File** box.
The license file is approximately 1KB in size and has a .lic file extension. Your Sales Account Executive or Licensing Specialist should have sent this file to you as an email attachment.

> Click [ ] to locate the license file, and then click Apply License File.

**Evaluating the Product**

**Note:** The full and evaluation versions of File System Auditor are identical. The license file is the sole determinant of program functionality. The evaluation period is 30 days and limited to 2 servers.

> If you are evaluating the software and would like to use the preset values for the number of licenses, objects, and evaluation days, click [ Begin Evaluation ].
Configuring File System Auditor

The File Service Auditor Agent Configuration Console enables you to manage the data that goes into the auditing database. Only the data that resides in the auditing database is available to the File System Auditor console for reporting.

Before File System Auditor can begin to collect data, you must define a path and choose the types of events to monitor. To manage the number of events that are collected, you can specify to include or exclude certain file types, or exclude certain processes from the collection. Lastly, you can specify a length of time during which duplicate events are suppressed from the list, which also helps manage the amount of data collected.

STARTING THE AGENT CONFIGURATION CONSOLE

Click Start, point to Programs ➤ ScriptLogic Corporation ➤ File System Auditor 2, and then choose Agent Configuration Console.

Each time you run the program you will be greeted by the splash screen, which displays the initialization of the program and the version information.

EXAMINING THE AGENT CONFIGURATION CONSOLE START PAGE

If this is the first time you have installed File System Auditor, the Configuration Console Start Page displays. To set up File System Auditor, you must add at least one file server and create an auditing database.
### Option | Description
--- | ---
Add File Servers | Add file servers. See *Adding File Servers*.
Run Database Wizard | Create and manage auditing databases. See *Starting the Database Wizard*.
Purge Audit Log | Purge selected data from an auditing database. See *Purging the Audit Database*.
Modify Application Preferences | Create and manage default filters. See *Setting Default Filters*.
Display Help | Display online help.
Launch Reporting Console | Open the File System Audit Report Configuration Console where you can produce reports based on the data in the auditing database. See the *File System Auditor Report Configuration User Guide*.

### Tool Bar

| Icon | Description |
--- | ---|
Add File Servers | Add file servers. See *Adding File Servers*.
Remove File Server | Remove selected file servers.
Start Auditing | Start the auditing process.
Stop Auditing | Stop the auditing process.
Refresh | Refresh the display.
Reporting Console | Open the File System Audit Report Configuration Console where you can produce reports based on the data in the auditing database. See the *File System Auditor Report Configuration User Guide*.
Upgrade File Server | Upgrade the Audit Agent from a previous installation of File System Auditor. See *Upgrading the Audit Agent*.
Start Page | Display the Start Page.
Help | Access online help.

### Menus

#### File

| Menu Option | Description |
--- | ---|
Add File Servers... | Add file servers. See *Adding File Servers*.
Remove File Server | Remove selected file servers.
Exit | Close File System Auditor.

| View
--- | ---|
Start Page | Display the Start Page.
### Menu Option | Description
--- | ---
Start Auditing | Start the auditing process.
Stop Auditing | Stop the auditing process.
Refresh | Refresh the display.

### Menu Option | Description
--- | ---
Database Wizard | Create and manage auditing databases. See Starting the Database Wizard.
Purge Audit Log | Purge selected data from an auditing database. See Purging the Audit Database.
Report Configuration | Open the File System Audit Report Configuration Console where you can produce reports based on the data in the auditing database. See the File System Auditor Report Configuration User Guide.
Preferences | Create and manage default filters. See Setting Default Filters.

### Menu Option | Description
--- | ---
Help Contents | Access online help
About ScriptLogic File System Auditor | View information about the version of File System Auditor installed on your computer, to apply a license file, or to visit the ScriptLogic website.
UPGRADING THE AUDIT AGENT

Note: If you are installing File System Auditor for the first time, proceed to Creating an Audit Database.

If you are updating from a previous version, you need to upgrade the Audit Agent following the installation of the latest version of File System Auditor.

After starting File System Auditor, you see your file servers listed with a notice that the Agent needs to be upgraded.

1. Select the file server, and then click . A warning message displays.

2. To upgrade the agent, click Yes.

3. Click Close.
CREATING AN AUDIT DATABASE

Important: File System Auditor requires an instance of Microsoft SQL Server.

Important: You must create an auditing database before you can perform any tasks using File System Auditor.

There are several methods that you can choose to start the Database Wizard where you can create an audit database.

- Click Start, point to Programs ➤ ScriptLogic Corporation ➤ File System Auditor 2, and then choose Database Wizard.
- Click Run Database Wizard on the Agent Configuration Console Start Page.
- Choose Database Wizard from the Tools menu on the Agent Configuration Console Start Page.

See Creating a New Database in the Database Wizard chapter.

Note: You also have an opportunity to access the Database Wizard to create a database during the process of adding file servers. See Adding File Servers.

ADDING FILE SERVERS

To audit a computer, you must add it to the list of file servers. During the process, the Audit Agent is installed on the target computers, the connection to the Audit Database is established, and you can define filters to manage the data that is collected.

2. Click Next. The Select file servers page opens.

4. In the **File Server or Cluster/Node Names** box, type the names of the file servers or cluster servers separated with commas, or click [Search Active Directory…] and choose the servers.

**Note:** You cannot select virtual cluster servers from the Active Directory Object Picker. You must type the names in the box.

5. Click **OK**. The server name(s) displays in the **Computer Name** column and the **Agent Action** column indicates the Audit Agent will be installed.
6. Click Next. The **Choose database and set authentication** page opens.

![Image of Add File Server Wizard](image)

a. From the **SQL Server Instance** list, select the name of the server where the auditing database resides.

b. From the **Database Name** list, select the name of the auditing database.

c. Choose whether to use Windows or SQL Server authentication.

d. In the **Username** box, type then name of the account with the permissions necessary to write to the auditing database, or click **Search Active Directory...** to select an account.

e. In the **Password** and **Confirm Password** boxes, type the password for the account you selected.
7. Click Next. The Select filters page lists the servers you added.

On the Select filters page, you can define filters that will include or exclude items from the auditing process. On initial installation, you may want to accept the default settings as you can define filters once installation is complete.

Use settings for all file servers
By default, the filters that you add here apply to all the file servers in the list. If you want to define filters separately for each server, clear the check box.

Path Filters
Add all public shares as path filters
By default, all public shares are added as path filters. If you want to add different path filters, clear the Use settings for all file servers check box, and then clear this check box.

You can specify specific folders to include or filter out any folders you do not want to include in the data. In addition, you can specify specific events and files to include or exclude. See Stopping and Starting the Audit Agent.

Process Exclusion Filters
See Setting Process Exclusion Filters.

User Exclusion Filters
See Setting User Exclusion Filters.
8. Click Next. The Set advanced install options page opens.

**Advanced Options**

**Duplicate entry and suppression delta (seconds)**
By default, duplicate entries that occur within 10 seconds of each other are suppressed. Only the first entry appears in the event list. You can increase this value to reduce the length of the event list. Changes apply to new event collection only. Existing data is not affected.

**Rename-and-delete pattern detection**
In some software applications, when saving a file, instead of overwriting the original file, the application saves to a temporary file, renames the original file, renames the temporary file to the current file name, and then deletes the temporary file. This process occurs so you can recover the original file. By default, File System Auditor detects this behavior and logs it in the database as a file modification on the file you were editing, rather than as a rename and delete process. To disable this detection, select the check box.

**Capture file share events (Create, Modify, Delete)**
If you are running Windows Server 2003 or later, file share events are included in the data collection by default. To disable this feature, clear the check box.

**Agent Start Options**

**Start agent(s) immediately after install**
By default, the agents are started after installation is complete.

**Only install agents. User will start agents later**
Select to install agents only. To start the agents after installation, see *Stopping and Starting the Audit Agent*. 
9. Click Next. The Summary page displays the selections you made.

10. Click Finish.

11. Click Close.
The main window displays the file servers that you installed. You can select each server individually to view information and to create filters.

- The **Database Settings** area displays information about the SQL Server Instance and the auditing database. See *Changing Database Settings*,

- The **Advanced Settings** area displays the choices made during installation of the file server. See *Changing Advanced Settings*.

- The **Health Status** area shows the status of the File Server, Agent, and Audit Database.

  **Note:** You may need to click 🔄 to refresh the status. Alternatively, choose **Refresh** from the **Server** menu.

- The **Filters** area contains three tabs. You had the option to add filters during the process of adding a filter. If you chose to bypass that step, you can add them now, or if you did add filters, you can edit or remove them.

  - See *Setting Path Filters*
  - See *Setting Process Exclusion Filters*
  - See *Setting User Exclusion Filters*
STOPPING AND STARTING THE AUDIT AGENT

To stop the Audit Agent, click . Alternatively, choose Stop Auditing from the Server menu.

To start a stopped Audit Agent, click . Alternatively, choose Start Auditing from the Server menu.
**SETTING PATH FILTERS**

You can specify specific folders or files to include or filter out any folders or files you do not want to include in the data.

**Note:** If you are running Windows Server 2003 or later, file share events (Create, Modify, and Delete) are included in the data collection by default. To disable this feature, see *Changing Advanced Settings*.

1. Open the **Path Filters** tab to display the current filters.

   ![Path Filters Table](image)

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Add]</td>
<td>Add a new filter</td>
</tr>
<tr>
<td>![Remove]</td>
<td>Remove selected filters</td>
</tr>
<tr>
<td>![Edit]</td>
<td>Edit the selected filter</td>
</tr>
</tbody>
</table>

2. Click **Add**. The **Create New Auditing Filter** box opens.

3. In the **Folder/File Wildcard** box, type the path to which to apply the filter, or click ![ellipsis] to locate a folder. You can use the * wildcard when typing the path.

   ![Create New Auditing Filter](image)
If you click the Select Remote Path box opens. Double-click a selection to build the path in the Folder path box.

When the path is complete, click Select.

4. In the Include/Exclude File System Events area, select the file and folder events that you want to include or exclude from the path. By default, all events are selected.

<table>
<thead>
<tr>
<th>Events Affecting Files</th>
<th>Events Affecting Folders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Include/Exclude File System Events</td>
<td>Include/Exclude File System Events</td>
</tr>
<tr>
<td>Include events selected below</td>
<td>Include events selected below</td>
</tr>
<tr>
<td>Exclude events selected below</td>
<td>Exclude events selected below</td>
</tr>
</tbody>
</table>

Note: Protected Permissions are those where the parent permissions do not apply to the child objects. Unprotected Permissions are those where the parent permissions do apply to the child objects.
Note: You can select to include or exclude events, but not both in the same filter. Create separate filters to include and exclude events.

Important: Use caution if including File-Read or File-Access Denied (Opening/Modifying) events as the number of events recorded by File System Auditor may overwhelm the auditing database. Any focus on a file in Windows Explorer, such as a mouse-over or using the arrow keys to scroll through the directory, causes a File-Read event in File System Auditor if the user has access to the file(s). If the user does not have access to the file(s), File System Auditor records a File-Access Denied (Opening/Modifying) event.

If you need to include the File-Read or File-Access Denied (Opening/Modifying) events, restrict the path to a minimum number of files/folders, and to eliminate false positives, make sure you have Windows Access-Based Enumeration (available with Windows Server 2003 Service Pack 1) enabled and operational.

Note: Some applications generate a File Read event only when a file is opened for the first time. If the file is opened again, the application may pull from a memory cache and not from the disk. Since File System Auditor watches events going to NTFS, if an application pulls a file from a memory cache and never calls NTFS, a File Read event is not logged. If another user opens that same file for the first time, that File Read event is logged.

5. In the Include/Exclude File Masks area, you can specify files to include or exclude.

   To add a mask, click Add in the appropriate area. The Add Included File Mask or Add Excluded File Mask box appears. Type the mask in the box using wildcards as needed, and then click OK.

   Note: To include or exclude events for files that have no extension, type *. (asterisk, dot). If you then rename a file without an extension to a file name with an extension, you will see the event because it shows up for the file name with the extension.
The **Create New Auditing Filter** box displays the selections.

![Create New Auditing Filter](image.png)

- To remove a selected file mask, click **Remove** in the appropriate area.

6. Click OK. The **Path Filters** tab displays the filter. The **Events** list displays the **File Events** first in the list, and then the **Folder Events**.

- Events included in the filter are indicated with ![Inclusion Symbol](image.png).
- Events excluded from the filter are indicated with ![Exclusion Symbol](image.png).

![Path Filters](image.png)

- To edit a selected path filter, click ![Edit Symbol](image.png) or double-click the path filter.
- To delete selected path filters, click ![Remove Symbol](image.png).
SETTING PROCESS EXCLUSION FILTERS

By default, all processes are included in the event collection. You can exclude specific processes from the event collection.

1. Open the Process Exclusion Filters tab to display the current filters.

   ![Filter Table]

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Add]</td>
<td>Add a new filter</td>
</tr>
<tr>
<td>![Remove]</td>
<td>Remove selected filters</td>
</tr>
<tr>
<td>![Edit]</td>
<td>Edit a selected filter</td>
</tr>
<tr>
<td>![Add Default Filters]</td>
<td>Add filters that exclude all events for the following processes:</td>
</tr>
<tr>
<td></td>
<td>abackup.exe</td>
</tr>
<tr>
<td></td>
<td>cavtray.exe</td>
</tr>
<tr>
<td></td>
<td>cobbu.exe</td>
</tr>
<tr>
<td></td>
<td>fsm32.exe</td>
</tr>
<tr>
<td></td>
<td>mcshield.exe</td>
</tr>
<tr>
<td></td>
<td>mssrv.exe</td>
</tr>
<tr>
<td></td>
<td>navapw32.exe</td>
</tr>
<tr>
<td></td>
<td>ntbackup.exe</td>
</tr>
<tr>
<td></td>
<td>NtrsScan.exe</td>
</tr>
<tr>
<td></td>
<td>rbserv.exe</td>
</tr>
<tr>
<td></td>
<td>rtvscan.exe</td>
</tr>
<tr>
<td></td>
<td>savscan.exe</td>
</tr>
<tr>
<td></td>
<td>slase.exe</td>
</tr>
<tr>
<td></td>
<td>slfsasvc.exe</td>
</tr>
<tr>
<td></td>
<td>spybotsd.exe</td>
</tr>
<tr>
<td></td>
<td>spy sweeper.exe</td>
</tr>
<tr>
<td></td>
<td>webscanx.exe</td>
</tr>
<tr>
<td></td>
<td>winbackup.exe</td>
</tr>
<tr>
<td></td>
<td>ws_rep.exe</td>
</tr>
</tbody>
</table>

2. Click ![Add]. The Process Exclusion Filter box lists the events you can choose to exclude from the process. By default, all events are selected.

3. In the Process Name box, type the name of the process, using wildcards as needed.
4. In the **Exclude File System Events** area, select the file and folder events that you want to exclude from the process.

5. Click **OK**. The **Process Exclusion Filters** tab displays the filter. The **Events** list displays the **File Events** first in the list, and then the **Folder Events**.

   - Events included in the filter are indicated with ![Include](image1.png).
   - Events excluded from the filter are indicated with ![Exclude](image2.png).

   - To edit a selected process exclusion filter, click ![Edit](image3.png) or double-click the filter.
   - To delete selected process exclusion filters, click ![Remove](image4.png).
SETTING USER EXCLUSION FILTERS

By default, all users are included in the event collection. You can exclude specific users from the event collection.

1. Open the User Exclusion Filters tab to display the current filters.

   ![User Exclusion Filters Tab]

   **Button** | **Description**
   --- | ---
   ![Add](Image) | Add a new filter
   ![Remove](Image) | Remove selected filters
   ![Edit](Image) | Edit the selected filter

2. Click ![Add](Image). The User Exclusion Filter box appears. In the User Name box, type a user name, or click ![Search](Image) to locate a user name. You can use the * wildcard when typing the user name.

3. In the Exclude File System Events area, select the file and folder events that you want to exclude for the selected user.

   ![Exclude File System Events]

   **Events Affecting Files**
   - Created
   - Created
   - Moved
   - Renamed
   - Read
   - Modified
   - Access Denied (Creating)
   - Access Denied (Opening/Modifying)
   - Owner Changed
   - Protected Permissions
   - Inherited Permissions
   - Explicit Permissions

   **Events Affecting Folders**
   - Created
   - Created
   - Moved
   - Renamed
   - Protected Permissions
   - Unprotected Permissions
   - Explicit Permission Change
   - Inherited Permission Change
4. Click OK. The **User Exclusion Filters** tab displays the filter. The **Events** list displays the **File Events** first in the list, and then the **Folder Events**.

- Events included in the filter are indicated with 
- Events excluded from the filter are indicated with 

- To edit a selected user exclusion filter, click or double-click the filter.
- To delete selected user exclusion filters, click .
CHANGING DATABASE SETTINGS

The Server Configuration area for the selected server displays the database being used to collect the events. You can change to a different database, change the database authentication, or change the account used to write to the database.

To change any database settings, click Change database settings in the Server Configuration area for the selected server. The Agent Information box displays the current database settings. Make any necessary changes, and then click OK.

Note: You can create a new database, if necessary, by clicking Run the database wizard to create an FSA database.
**CHANGING ADVANCED SETTINGS**

By default, the **Duplicate entry and suppression delta** is set to 10 seconds, and **Rename-and-delete pattern detection** and **Capture file share events** are turned on.

<table>
<thead>
<tr>
<th>Advanced Settings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplicate entry and suppression delta (seconds)</td>
<td>10</td>
</tr>
<tr>
<td>Rename-and-delete pattern detection</td>
<td>ON</td>
</tr>
<tr>
<td>Capture file share events (Create, Modify, Delete) (Windows Server 2003 or Later)</td>
<td>ON</td>
</tr>
</tbody>
</table>

To change the advanced settings, click **Change advanced settings** in the **Server Configuration area** for a selected file server. The **Advanced Settings** box displays the current settings.

**Duplicate entry and suppression delta (seconds)**

By default, duplicate entries that occur within 10 seconds of each other are suppressed. Only the first entry appears in the event list. You can increase this value to reduce the length of the event list. Changes apply to new event collection only. Existing data is not affected.

**✓ Rename-and-delete pattern detection**

In some software applications, when saving a file, instead of overwriting the original file, the application saves to a temporary file, renames the original file, renames the temporary file to the current file name, and then deletes the temporary file. This process occurs so you can recover the original file. By default, File System Auditor detects this behavior and logs it in the database as a file modification on the file you were editing, rather than as a rename and delete process. To disable this detection, clear the check box.

**✓ Capture file share events (Create, Modify, Delete)**

If you are running Windows Server 2003 or later, file share events are included in the data collection by default. To disable this feature, clear the check box.
SETTING DEFAULT FILTERS

When adding file servers, users can choose to add default process exclusion filters. You can determine the processes in the exclusion filter.

1. Choose Preferences from the Tools menu. The Auditing Preferences box displays the default filters.

- Ask user if default process exclusion filters should be used

By default, the user is asked to include the default process exclusion filters when adding a file server. If you want to suppress the display of this message box, clear the check box.
Add default process exclusion filters to new file servers

To activate this check box, clear the **Ask user if default process exclusion filters should be used** check box. By default, process exclusion filters are added to new file servers. Clear the check box if you do not want the default filters added automatically.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW</td>
<td>Add a new filter</td>
</tr>
<tr>
<td>EDIT</td>
<td>Edit a selected filter</td>
</tr>
<tr>
<td>REMOVE</td>
<td>Remove selected filters</td>
</tr>
<tr>
<td>Restore Default</td>
<td>Return the default filters list to the default:</td>
</tr>
</tbody>
</table>

### Default Filters

<table>
<thead>
<tr>
<th>Process</th>
<th>Manufacturer</th>
<th>Product Name</th>
<th>Application Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-Virus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cavtary.exe</td>
<td>Computer Associates</td>
<td>EZ Antivirus</td>
<td>Real-time AV Scanner</td>
</tr>
<tr>
<td>fsm32.exe</td>
<td>McAfee</td>
<td>Stinger</td>
<td></td>
</tr>
<tr>
<td>mcsfifield.exe</td>
<td>McAfee</td>
<td>Real-time Scanner</td>
<td></td>
</tr>
<tr>
<td>Navapw32.exe</td>
<td>Symantec</td>
<td>Norton Antivirus Agent</td>
<td></td>
</tr>
<tr>
<td>ntrscan.exe</td>
<td>Trend Micro</td>
<td>OfficeScan</td>
<td></td>
</tr>
<tr>
<td>rtrvscan.exe</td>
<td>Symantec</td>
<td>Antivirus</td>
<td></td>
</tr>
<tr>
<td>savscan.exe</td>
<td>Symantec</td>
<td>Antivirus Scanner</td>
<td></td>
</tr>
<tr>
<td>wescanx.exe</td>
<td>McAfee</td>
<td></td>
<td>Network Traffic Monitor</td>
</tr>
<tr>
<td>Anti-Spyware</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mssrv.exe</td>
<td>McAfee</td>
<td>McAfee AntiSpyware</td>
<td></td>
</tr>
<tr>
<td>slase.exe</td>
<td>ScriptLogic</td>
<td>Desktop Authority</td>
<td></td>
</tr>
<tr>
<td>spysbotsd.exe</td>
<td>ScriptLogic</td>
<td>Spybot Search and Destroy</td>
<td></td>
</tr>
<tr>
<td>spybotsweeper.exe</td>
<td>Webroot Software</td>
<td>SpySweeper</td>
<td></td>
</tr>
<tr>
<td>Backup Software</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>abackup.exe</td>
<td>Modular Software</td>
<td>aBackup</td>
<td></td>
</tr>
<tr>
<td>cobbl.exe</td>
<td>Cobian</td>
<td>Cobian Backup</td>
<td></td>
</tr>
<tr>
<td>ntbackup.exe</td>
<td>Microsoft</td>
<td>Windows Backup</td>
<td></td>
</tr>
<tr>
<td>rbserv.exe</td>
<td>Mike Lin</td>
<td>Rapid Backup</td>
<td></td>
</tr>
<tr>
<td>winbackup.exe</td>
<td>UniBlue Systems Ltd.</td>
<td>WinBackup</td>
<td></td>
</tr>
<tr>
<td>File Replication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ws_rep.exe</td>
<td>Xosoft</td>
<td>WANSyncHA Agent</td>
<td></td>
</tr>
<tr>
<td>Auditing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sifsasvc.exe</td>
<td>ScriptLogic</td>
<td>File System Auditor</td>
<td>ScriptLogic File System Auditor Service</td>
</tr>
</tbody>
</table>
Using the Real Time Viewer

Once you have set up File System Auditor, you can use the Real Time Viewer to look at events as they occur.

**Note:** You cannot view events that occur prior to the time you opened the Real Time Event Viewer. To view events that occurred in the past, use the Reporting Console.

### STARTING THE REAL TIME VIEWER

- On the computer where the Audit Agent is installed, click **Start**, point to **Programs** ➤ **ScriptLogic Corporation** ➤ **File System Auditor 2**, and then select **Real Time Viewer**. Events start to display as they occur.

You can size the columns to view the complete entry, or select a record and then point to the entry.

** ✓ Insert Events into List Below (Realtime Viewer – only the last 100 events are shown)**

By default, events begin to appear in the list as soon as you open the Real Time Viewer. To turn off the capture of events, clear the check box.

### Menus and Toolbar Icons

<table>
<thead>
<tr>
<th>Menu</th>
<th>Menu Option</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>File</td>
<td>Exit</td>
<td></td>
<td>Close the Real Time Event Viewer</td>
</tr>
<tr>
<td>Options</td>
<td>Clear List</td>
<td></td>
<td>Clear the list of events</td>
</tr>
<tr>
<td>Help</td>
<td>About File System Auditor</td>
<td></td>
<td>View the copyright information</td>
</tr>
</tbody>
</table>
Purging the Audit Database

The Purge Database Wizard helps you purge specific data from the auditing database.


2. Click Next. The Choose database page opens. Choose a server from the SQL Server Instance list. Choose a database from the Database Name list. Choose whether the database uses Windows or SQL Server Authentication. If you choose SQL Server Authentication, type the user name and password in the appropriate boxes.
3. Click Next. The Select data/time range page opens.

- **Delete file system events for the following number of hours**
  By default, all file system events for the past hour are deleted. Type a number in the Hours box to increase or decrease the time range.

- **Delete file system events between the following times**
  Select to choose a date and time range. Click the calendar to select a date. Either type or scroll the values in the time boxes.
4. Click Next. The Select user filters page displays the users in the audit database.

![Select user filters page](image)

- **Include All Users**
  By default, all users are included in the purge.

- **Include Selected Users**
  Select to activate the Users area. Select users in the list to include in the purge. You can also add groups to include in the purge. See Adding a Group.

- **Exclude Selected Users**
  Select to activate the Users area. Select users in the list to exclude from the purge. You can also add groups to exclude from the purge. See Adding a Group.
Adding a Group

a. Type a group name in the Group box. Alternatively, click Select a group, and then search for a group to add.

b. Click Add Group. The name displays in the list.
   - To show a selected groups members, click Show Group Members.
   - To remove selected groups from the list, click Remove Selected Groups.
5. Click **Next**. The **Select event filters** page lists all the events present in the Audit Database.

![Purge Audit Log Wizard](image)

- **Include All Events**
  By default, all events are included in the purge.

- **Include Selected Events**
  Select to activate the **Events** area. Select events in the list to include in the purge.

- **Exclude Selected Events**
  Select to activate the **Events** area. Select events in the list to exclude from the purge.
6. Click Next. The Processes box lists the processes included in the auditing database.

- **Include All Processes**
  By default, all processes are included in the purge.

- **Include Selected Processes**
  Select to activate the Processes area. Select processes in the list to include in the purge.

- **Exclude Selected Processes**
  Select to activate the Processes area. Select processes in the list to exclude from the purge.

7. Click Next. The Select server filters page displays the servers in the Audit Database.

- **Include All Servers**
  By default, all servers are included in the purge.

- **Include Selected Servers**
  Select to activate the Servers area. Select servers in the list to include in the purge.
Exclude Selected Servers
Select to activate the Servers area. Select servers in the list to exclude from the purge.

8. Click Next. The Select workstation page displays the workstations in the auditing database.

Include All Workstations
By default, all workstations are included in the purge.

Include Selected Workstations
Select to activate the Workstation area. Select workstations in the list to include in the purge.

Exclude Selected Workstations
Select to activate the Workstations area. Select workstations in the list to exclude from the purge.

9. Click Next. The Preview results page displays the selections you made. The number of events to be purged displays in the Events to be Purged area. To examine the actual data, click Display first 1000 events.
10. Click **Purge**. A message asks for confirmation.

11. Click **Yes** to continue with the purge process. The **Purge Complete** box displays.

12. Click **Close**.

---

**PURGING DATA FROM THE COMMAND LINE**

**Usage**

```
PurgeData.exe [/? |
  [/CS="<conn_str>"
   [/Date="<date>" | /Days="<number_of_days>"]]]
```

**where**

/?

Display this help message

<conn_str>

Connection string for DB
e.g. "Server=SqlServer1;Database=SLFileAuditor;
    Integrated Security=SSPI;Asynchronous Processing=true"

<date>

All events older than the specified date
(but not including) are removed from the database.

<number_of_days>

All events that were happened at least
the number of days specified prior to
the current date are removed from the database.
If 0 specified all the events are removed.

**Example**

```
C:\Program Files\ScriptLogic Corporation\File System Auditor 2\PurgeData.exe
  /CS="Server=VM2K3PSAGENT\FSA;Database=SLFile Auditor; Asynchronous
    Processing=true;Integrated Security=SSPI" /Days=5
```
Using Interactive Mode

Run PurgeData.exe without arguments to begin interactive mode.

C:\Program Files\ScriptLogic Corporation\File System Auditor 2\purgedata.exe

FSA Data Purge Tool

Enter the SQL Server Instance: VM2K3FSAAGENT\FSA

Enter the Database Name: SLFileAuditor2

Select the SQL Server authentication
1 -- Windows authentication
2 -- SQL Server authentication
Enter number, then press (ENTER) to continue (1): 1

Select the events to purge
1 -- All events at least a specific number of days old
2 -- All events older than a given date
Enter number, then press (ENTER) to continue (1): 1

You selected to remove all events at least a specific number of days old.
Please enter the number of days (10): 5

Preparing to purge data using the following parameters:
  Purge all events at least 5 days old

Command Line Example
C:\Program Files\ScriptLogic Corporation\File System Auditor 2\PurgeData.exe
/CS="Server=VM2K3FSAAGENT\FSA;Database=SLFileAuditor2; Asynchronous
Processing=true;Integrated Security=SSPI" /Days=5
Managing the Auditing Database

**Important:** You must create an auditing database before you can perform any tasks using File System Auditor.

### STARTING THE DATABASE WIZARD

- Click Start, point to Programs ➤ ScriptLogic Corporation ➤ File System Auditor 2, and then select Database Wizard.
- Choose Database Wizard from the Tools menu on the Agent Configuration Console Start Page. See *Error! Reference source not found.*

The Welcome to the Database Wizard box appears.

![Welcome to the Database Wizard](image-url)

Welcome to the Database Wizard

This wizard will assist you with various database maintenance activities relating to your product installation. Please refer to your user’s guide for a full explanation of usage.

Click Next to continue or Cancel to exit this wizard.
Click **Next** to display the main menu. When you choose an operation from the list, a brief description displays.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create New Database</td>
<td>Create a new database.</td>
</tr>
<tr>
<td>Remove Database</td>
<td>Remove (drop) an existing database.</td>
</tr>
<tr>
<td>Increase Database Size</td>
<td>Increase data and log file size of an existing database.</td>
</tr>
<tr>
<td>Shrink Database Size</td>
<td>Decrease the data and log file size of an existing database.</td>
</tr>
<tr>
<td>Run SQL Script</td>
<td>Run any SQL script.</td>
</tr>
<tr>
<td>View Database Statistics</td>
<td>View statistics for an existing database.</td>
</tr>
<tr>
<td>Attach Database</td>
<td>Attach an existing database.</td>
</tr>
<tr>
<td>Detach Database</td>
<td>Detach an existing database.</td>
</tr>
<tr>
<td>CheckPoint and Truncate Log</td>
<td>Perform a checkpoint operation on the specified database. This checks to</td>
</tr>
<tr>
<td></td>
<td>see if there are ‘dirty’ pages in memory that need to be flushed to the</td>
</tr>
<tr>
<td></td>
<td>hard drive. The log file will be marked accordingly and then a truncate</td>
</tr>
<tr>
<td></td>
<td>operation will be performed.</td>
</tr>
<tr>
<td>Change Security Mode</td>
<td>Change the security mode of a SQL server instance to integrated mode</td>
</tr>
<tr>
<td></td>
<td>(Windows only) or mixed mode (Windows and SQL Server).</td>
</tr>
<tr>
<td>Set SA Password</td>
<td>Change the current SA login account password for SQL Server.</td>
</tr>
<tr>
<td>Save Connection Information</td>
<td>Save the database-related connection information into the registry.</td>
</tr>
<tr>
<td>Perform Database Maintenance</td>
<td>Perform several tasks, such as Rebuilding Indexes, Resetting Identity</td>
</tr>
<tr>
<td></td>
<td>Columns, and Performing Consistency Checks.</td>
</tr>
<tr>
<td>Reset Database Security</td>
<td>Reset security related principles, such as roles, logins, and permissions</td>
</tr>
<tr>
<td></td>
<td>to their default settings.</td>
</tr>
</tbody>
</table>
**CREATING A NEW DATABASE**

**Important:** You must create an auditing database before you can perform any tasks using File System Auditor.

1. From the **Database Wizard Main Menu**, select **Create New Database**.
2. Click **Next**. The **Establish Connection** box appears.
3. In the **SQL Server Instance** box, type the name of the server that is running Microsoft SQL Server, or click **Browse...** to locate the server.
4. In the **Database Name** box, type the name of the auditing database to create. To view existing database names, click **Browse...**.
5. The default selection for authentication is **Use Windows Authentication**. If you select **Use SQL Server Authentication**, type the name of the SQL Server user account in the **User Name** box and the password in the **Password** box.
6. Click Next. The **Enter Database Settings** box displays the default initial sizes for the database (*.mdf) and log (*.ldf) files.

![Database Wizard](image)

**File Sizes**

By default, the database and log files are created at 50 MB each. If you want to change the default, type a value in the appropriate box. The data and log files grow automatically starting from the initial value specified here. You can change the size of the data file at a later time. See *Increasing Database Size*.

- **Create default security groups**
  By default, default security groups are created as local groups on non-domain controllers only. You can select to create default domain global or local groups. To bypass the creation of default security groups, clear the check box.

- **Override Default File Locations**
  Select to create the database transaction log files in a location other than the default location. Type the physical path in the appropriate boxes. Express the path as a logical path and not as a UNC path.

7. Click **Next**. The **Create New Database** box displays the database name.

8. Click **Finish**.
REMOVING AN EXISTING DATABASE

Caution: Removing a database permanently removes it from the system. If you just want to detach the database, see Detaching a Database.

Note: The database cannot be in use. Exit File System Auditor, if necessary.

1. From the Database Wizard Main Menu, select Remove Database.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click [Browse... ] to locate the server.
4. In the Database Name box, type the name of the database, or click [Browse...] to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select Use SQL Server Authentication, type the name of the SQL Server user account in the User Name box and the password in the Password box.
6. Click Next. The Remove Database box displays the name of the database you chose.
7. Click Finish.

INCREASING DATABASE SIZE

Microsoft SQL Server automatically increases the size of the database file, which can sometimes cause performance issues. To avoid this, you may want to increase the size of the database manually.

1. From the Database Wizard Main Menu, select Increase Database Size.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click [Browse...] to locate the server.
4. In the Database Name box, type the name of the database, or click [Browse...] to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select Use SQL Server Authentication, type the name of the SQL Server user account in the User Name box and the password in the Password box.
6. Click Next. The Enter Database Size box displays the current combined size of the database and log files in the Total Database Size area.

7. In the Enter New Database Size box, type a numeric value in megabytes that is greater than the existing value and represents the size of the database file.

   Note: Enter the total size of the database, not the additional size of the database. For example, if the database is 50MB and you want to add another 50MB, then you would enter 100 as the new database size.

   Note: The log file is not affected by this process.

8. Click Next. The Increase Database Size box displays the database you chose.

9. Click Finish.

**SHRINKING A DATABASE**

If you need to reclaim space, you can shrink the database, which reduces the size of the database to the minimum amount based on the size of the data.

   Note: Another database to monitor is the tempdb database, which is the working area that Microsoft SQL Server uses to process queries and perform other actions. You might shrink the tempdb database periodically to reclaim the disk space that is no longer needed.

1. From the Database Wizard Main Menu, select Shrink Database Size.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click Browse to locate the server.
4. In the **Database Name** box, type the name of the database, or click **[Browse]** to locate the database.

5. Choose whether Windows or SQL Server Authentication is used. If you select **Use SQL Server Authentication**, type the name of the SQL Server user account in the **User Name** box and the password in the **Password** box.

6. Click **Next**. The **Enter Shrink Settings** box appears.

7. In the **Shrink Percentage** box, type the percentage by which to shrink the database. By default, the database shrinks by 10%.

8. In the **Shrink Method** area, select a method to use when shrinking the database.

   - **Default**
     Data at the end of the file is moved to earlier in the file. File is truncated by the value in the **Shrink Percentage** box.

   - **Empty File**
     Remove all data from the database and reduce the size by the value in the **Shrink Percentage** box.

   - **No Truncate**
     Data at the end of the file is moved to earlier in the file. Database size is reduced by the value in the **Shrink Percentage** box.

   - **Truncate Only**
     File is truncated by the value in the **Shrink Percentage** box. Data is not moved.

9. Click **Next**. The **Shrink Database** box displays the database you chose.

10. Click **Finish**.
RUNNING AN SQL SCRIPT

1. From the Database Wizard Main Menu, select Run SQL Script.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click Browse to locate the server.
4. In the Database Name box, type the name of the database, or click Browse to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select Use SQL Server Authentication, type the name of the SQL Server user account in the User Name box and the password in the Password box.
6. Click Next. The Select SQL Script File box appears.
7. In the File Name box, type the full path to the SQL Script File (*.sql) or click Browse to locate the file.
8. Click Next. The Run SQL Script box displays the path to the file you chose.
9. Click Finish.

VIEWING DATABASE STATISTICS

View the current database settings and statistics on the size of the database and each table in the database, which is helpful for diagnosing problems in the event that SQL Server is not functioning properly.

1. From the Database Wizard Main Menu, select View Database Statistics.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click Browse to locate the server.
4. In the Database Name box, type the name of the database, or click Browse to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select **Use SQL Server Authentication**, type the name of the SQL Server user account in the **User Name** box and the password in the **Password** box.

6. Click **Next**. The **View Database Statistics** box displays the database you chose.

7. Click **Finish**. The **Database Statistics** box displays the database statistics.

---

**ATTACHING A DATABASE**

When you create a database, it is automatically attached to File System Auditor. If you detach a database, you can attach it again to use it.

1. From the **Database Wizard Main Menu**, select **Attach Database**.

2. Click **Next**. The **Establish Connection** box appears.

3. In the **SQL Server Instance** box, type the name of the server where the database is located, or click **Browse** to locate the server.

4. In the **Database Name** box, type the name of the database, or click **Browse** to locate the database.

5. Choose whether Windows or SQL Server Authentication is used. If you select **Use SQL Server Authentication**, type the name of the SQL Server user account in the **User Name** box and the password in the **Password** box.

6. Click **Next**. The **Select Database File** box appears.
7. In the **File Name** box, type the full path to the data file or click ... to locate the data file to attach.

![Database Wizard](image)

8. Click **Next**. The **Attach Database** box displays the database you chose.

9. Click **Finish**.

---

**DETACHING A DATABASE**

Detaching a database removes it from File System Auditor, but does not delete it from the system. To permanently delete a database, see *Removing an Existing Database*.

**Note:** The database cannot be in use. Exit File System Auditor, if necessary.

1. From the **Database Wizard Main Menu**, select **Detach Database**.

2. Click **Next**. The **Establish Connection** box appears.

3. In the **SQL Server Instance** box, type the name of the server where the database is located, or click [Browse] to locate the server.

4. In the **Database Name** box, type the name of the database, or click [Browse] to locate the database.

5. Choose whether Windows or SQL Server Authentication is used. If you select **Use SQL Server Authentication**, type the name of the SQL Server user account in the **User Name** box and the password in the **Password** box.

6. Click **Next**. The **Detach Database** box displays the database you chose.

7. Click **Finish**.
TRUNCATING THE TRANSACTION LOG

When a transaction log becomes full, it forces the database to expand it. However, since File System Auditor does not use the transaction log, and there is no way to disable the transaction log for a database, you may need to periodically truncate the transaction log to tell the SQL Server that the data is no longer needed.

1. From the Database Wizard Main Menu, select Checkpoint and Truncate Log.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click [Browse...] to locate the server.
4. In the Database Name box, type the name of the database, or click [Browse...] to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select Use SQL Server Authentication, type the name of the SQL Server user account in the User Name box and the password in the Password box.
6. Click Next. The Checkpoint and Truncate Log box displays the database you chose.
7. Click Finish.

CHANGING THE SECURITY MODE

Depending on your system setup, you may want to switch the security mode on the SQL Server to enhance performance of some applications. For example, if you have Active Administrator™ set up to use one mode and File System Auditor to use the other, you may want to switch the security mode on the SQL Server to Mixed Mode (Windows and SQL Server).

1. From the Database Wizard Main Menu, select Change Security Mode.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click [Browse...] to locate the server.
4. In the Database Name box, type the name of the database, or click [Browse...] to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select Use SQL Server Authentication, type the name of the SQL Server user account in the User Name box and the password in the Password box.
6. Click Next. The **Select Mode** box displays the security mode options.

![Database Wizard](image)

Select Mode
This will allow you to change the security mode for a server

- **Integrated Mode (Windows only)**
  Select to use the Integrated Mode (Windows only) on the selected server.

- **Mixed Mode (Windows and SQL Server)**
  Select to use Mixed Mode (Windows and SQL Server) on the selected server.

7. Select the security mode.

- **Integrated Mode (Windows only)**
  Select to use the Integrated Mode (Windows only) on the selected server.

- **Mixed Mode (Windows and SQL Server)**
  Select to use Mixed Mode (Windows and SQL Server) on the selected server.

8. Click Next. The **Change Security Mode** box displays the server you chose.

9. Click Finish.

---

**SETTING THE SA PASSWORD**

If the SQL Server is set up in mixed mode (SQL Server and Windows), set a password for the SQL Server administrator (sa account). You also can use this option to change the password for security purposes.

1. From the **Database Wizard Main Menu**, select **Set SA Password**.

2. Click Next. The **Establish Connection** box appears.

3. In the **SQL Server Instance** box, type the name of the server where the database is located, or click [Browse...](image) to locate the server.

4. In the **Database Name** box, type the name of the database, or click [Browse...](image) to locate the database.

5. Choose whether Windows or SQL Server Authentication is used. If you select **Use SQL Server Authentication**, type the name of the SQL Server user account in the **User Name** box and the password in the **Password** box.
6. Click Next. The Enter Passwords box appears.

![Enter Passwords box]

7. In the Old SA Password box, type the existing password.
8. In the New SA Password box, type the new password.
9. In the Confirm Password box, retype the new password.
10. Click Next. The Set SA Password box displays the server you chose.
11. Click Finish.

**SAVING CONNECTION INFORMATION**

This option writes the database connection settings to the registry.

1. From the Database Wizard Main Menu, select Save Connection Information.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click [Browse] to locate the server.
4. In the Database Name box, type the name of the database, or click [Browse] to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select Use SQL Server Authentication, type the name of the SQL Server user account in the User Name box and the password in the Password box.
6. Click Next. The Save Connection Information box displays the registry key to which the database connection settings is written.
7. Click Finish.
PERFORMING DATABASE MAINTENANCE

Performing regular database maintenance can help maintain the performance of SQL Server. Run this action if you feel SQL Server is not performing at the same level it once did. You can select to rebuild indexes, reset identify columns, and perform consistency checks.

The Perform Database Maintenance action performs the following Database Consistency Checker (DBCC) commands.

<table>
<thead>
<tr>
<th>DBCC Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHECKCATALOG</td>
<td>Checks the system tables for consistency.</td>
</tr>
<tr>
<td>CHECKFILEGROUP</td>
<td>Performs a physical consistency check on all indexes and tables.</td>
</tr>
<tr>
<td>CHECKTABLE</td>
<td>Performs a consistency check of the data in each table and rebuilds indexes if necessary.</td>
</tr>
<tr>
<td>REPAIR_REBUILD</td>
<td>Checks the physical database allocation of indexes and repairs if necessary.</td>
</tr>
<tr>
<td>CHECKIDENT</td>
<td>Checks the identity values of each table and resets them if necessary.</td>
</tr>
</tbody>
</table>

1. From the Database Wizard Main Menu, select Perform Database Maintenance.
2. Click Next. The Establish Connection box appears.
3. In the SQL Server Instance box, type the name of the server where the database is located, or click Browse to locate the server.
4. In the Database Name box, type the name of the database, or click Browse to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select Use SQL Server Authentication, type the name of the SQL Server user account in the User Name box and the password in the Password box.
6. Click Next. The Perform Database Maintenance box appears.

![Perform Database Maintenance Box]

7. Choose the maintenance options to perform. By default all options are selected.
   - **Perform Consistency Checks**
     Select to run CHECKCATALOG, CHECKFILEGROUP, CHECKTABLE REPAIR_REBUILD, and CHECKINDEX.
   - **Reset Identify Columns**
     Select to run CHECKIDENT.
   - **Rebuild Indexes**
     Select to run CHECKINDEX and CHECKTABLE REPAIR_REBUILD.

8. Click Next. The Perform Database Maintenance box displays the database and actions to be performed.

9. Click Finish.

### Resetting Database Security

Resetting the database security re-creates the Windows NT security groups, database roles, and logins, and then re-applies the default security to all tables/functions/stored procedures in the auditing database.

1. From the Database Wizard Main Menu, select Reset Database Security.

2. Click Next. The Establish Connection box appears.

3. In the SQL Server Instance box, type the name of the server where the database is located, or click Browse to locate the server.

4. In the Database Name box, type the name of the database, or click Browse to locate the database.
5. Choose whether Windows or SQL Server Authentication is used. If you select **Use SQL Server Authentication**, type the name of the SQL Server user account in the **User Name** box and the password in the **Password** box.

6. Click **Next**. The **Reset Database Security** box displays the database you chose.

7. Click **Finish**.

### MOVING A DATABASE TO ANOTHER SERVER

If you need to move a database from one server to another, we recommend using the Microsoft SQL Server 2000/2005/2008 Client Utilities, SQL 2005 Management Studio, or Management Studio Express for SQL 2005 Express.

**Note**: Client utilities are available only on a full version of SQL Server, which is not included with File System Auditor.

1. Open SQL Enterprise Manager.
2. Locate the database to move, right-click, point to All Tasks, and then choose **Detach Database**.
3. Open the folder where the data files for that database are stored, and then copy the *.mdf and *.ldf files for that database to the new server.
4. In SQL Enterprise Manager, navigate to the new server where you want to attach the database, right-click on the Database folder, point to All Tasks, and then choose **Attach Database**.
5. Select the *.mdf file you just copied to the computer, and then complete the operation.
Troubleshooting

In its Knowledge Base, ScriptLogic Corporation has a library of articles that may provide an answer to a problem you are experiencing. Before calling technical support, check to see if your problem is documented here. You might also browse the Discussion Forums to see if anyone else is experiencing the same issue.

http://www.scriptlogic.com/support

Not seeing events in the database

Check that (a) you have set up the service configuration utility correctly to capture the events, and (b) you have not excluded the files and folders you are auditing.

Some applications generate a File Read event only when a file is opened for the first time. If the file is opened again, the application may pull from a memory cache and not from the disk. Since File System Auditor watches events going to NTFS, if an application pulls a file from a memory cache and never calls NTFS, a File Read event is not logged. If another user opens that same file for the first time, that File Read event is logged.

Auditing database fills up fast

Use caution if including File-Read or File-Access Denied (Opening/Modifying) events as the number of events recorded by File System Auditor may overwhelm the auditing database. Any focus on a file in Windows Explorer, such as a mouse-over or using the arrow keys to scroll through the directory, causes a File-Read event in File System Auditor if the user has access to the file(s). If the user does not have access to the file(s), File System Auditor records a File-Access Denied (Opening/Modifying) event.

If you need to include the File-Read or File-Access Denied (Opening/Modifying) events, restrict the path to a minimum number of files/folders, and to eliminate false positives, make sure you have Windows Access-Based Enumeration (available with Windows Server 2003 Service Pack 1) enabled and operational.
**REMOVING A FILE SERVER**

When you remove a file server from the list of servers, the Audit Agent is uninstalled as part of the process. To add the server back to the list, see *Adding File Servers*.

1. Select the server from the list of file servers, and then click ![Stop Auditing](image). Alternatively, choose **Stop Auditing** from the **Server** menu.

2. With the server still selected, click ![Remove](image). Alternatively, choose **Remove File Server** from the **File** menu.

3. To remove the server, click **Yes**. During the process of removing the server, the Audit Agent is uninstalled.

**UNINSTALLING THE AUDIT AGENT**

You can uninstall the Audit Agent without removing a file server from the list. To reinstall the Audit Agent on the file server, add the file server again. See *Adding File Servers*.

1. From the Windows Control Panel, choose **Add/Remove Programs**.

2. Select **File System Auditor – Agent Setup**, and then click **Remove**. A message box prompts you for confirmation.

3. To remove the agent, click **Yes**.
UNINSTALLING FILE SYSTEM AUDITOR

1. From the Windows Control Panel, choose Add/Remove Programs.
2. Select File System Auditor 2, and then click Remove. A message box prompts you for confirmation.
3. To remove the application, click Yes.

Note: The installation directory that contained File System Auditor remains after the process is complete. This directory contains the license file for the product and any files created after the product was installed. These may be deleted manually if you wish to completely remove File System Auditor.
Audit Database Schema

```
<table>
<thead>
<tr>
<th>tblPerms</th>
<th>PermissionID</th>
<th>CadISDDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>tblProcess</td>
<td>ProcessID</td>
<td>ProcessName</td>
</tr>
<tr>
<td>tblAuditLog</td>
<td>ComputerID</td>
<td>TimeGenerated</td>
</tr>
<tr>
<td>tblPath</td>
<td>PathID</td>
<td>ParentPathID</td>
</tr>
<tr>
<td>tblEventCodes</td>
<td>LocaleID</td>
<td>ActionCode</td>
</tr>
<tr>
<td>tblEventsMissed</td>
<td>TimeGenerated</td>
<td>EventsMissed</td>
</tr>
<tr>
<td>tblComputer</td>
<td>ComputerID</td>
<td>ComputerName</td>
</tr>
</tbody>
</table>
```
## Stored Procedures

<table>
<thead>
<tr>
<th>Name</th>
<th>Owner</th>
<th>Type</th>
<th>Create Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CleanUpTables</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>DeleteFullPath</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>dt_addtosourcecontrol</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_addtosourcecontrol_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_adduserobject</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_adduserobject_vcs</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_checkinobject</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_checkinobject_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_checkoutobject</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_checkoutobject_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_displayaerror</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
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<tr>
<td>dt_displayaerror_u</td>
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<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_droppropertiesbyid</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_dropuserobjectbyid</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_generateansiname</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_getobjwithprop</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_getobjwithprop_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_getpropertiesbyid</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_getpropertiesbyid_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_getpropertiesbyid_vcs</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_getpropertiesbyid_vcs_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_isundersourcecontrol</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_isundersourcecontrol_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_removefromsourcecontrol</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_setpropertybyid</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_setpropertybyid_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_validateloginparams</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>Name</td>
<td>Owner</td>
<td>Type</td>
<td>Create Date</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------</td>
<td>--------</td>
<td>----------------</td>
</tr>
<tr>
<td>dt_validateloginparams_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_vcsenabled</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_verstamp006</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_verstamp007</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_whocheckedout</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>dt_whocheckedout_u</td>
<td>dbo</td>
<td>System</td>
<td>3/21/2007 11:26</td>
</tr>
<tr>
<td>GetAccountID</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>GetComputerID</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>GetPathID</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>GetPathIDEx</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>GetPermissionID</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>InsertEntry</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>InsertEntry2</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>PopulateEventNames</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>PurgeDataByDate</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>Update1</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
<tr>
<td>Update2</td>
<td>dbo</td>
<td>User</td>
<td>3/21/2007 11:05</td>
</tr>
</tbody>
</table>
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