Configuration Guide for SQL Server

This document explains the steps to configure LepideAuditor Suite to add and audit SQL Server.
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1. Introduction

Welcome to the Configuration Guide of LepideAuditor Suite.

This software is a comprehensive solution providing all round audit information and control regarding Active Directory, Group Policy Objects, Exchange Servers, SharePoint Servers, and SQL Servers.

In this configuration guide, we have covered the steps to add and audit SQL Server.

2. Adding SQL Server

LepideAuditor Suite allows you to add and audit multiple SQL Servers in the network from a central platform. You can use any of the following procedures to add a SQL Server.

1. **Agent-based Auditing:** An agent will be installed on SQL Server to collect the logs, which will pass it to LepideAuditor Suite for parsing and display. This agent will run continuously and consume the server resources as per requirement.

2. **Agentless Auditing:** No agent will be installed for auditing SQL Server and hence no system resources of SQL Server will be used.

Go to "Settings" tab → "Component Management" and use any of the following methods to start with Click "SQL Server" button under "Add Component" section.

![Figure 1: SQL Server button](image)

You can also right click on "Component Management" node, go to "Add" and select "Active Directory, Group Policy and Exchange Server" to add a domain.

![Figure 2: Right click on “Component Management”](image)

Clicking it shows the following wizard.
Here, software offers two different ways to add SQL Server.

1. **Express Configuration**: Add SQL Server with minimum recommended settings.

2. **Advanced Configuration**: Add SQL Server with the advanced settings to customize the auditing.

*Figure 3: Add SQL Server wizard*
2.1 Add SQL Server with Express Configuration

Perform the below steps at the “Add SQL Server” wizard,

1. Select “Express Configuration” at the following wizard.

![Express Configuration](image)

*Figure 4: Adding SQL Server with Express Configuration*
2.1.1 SQL Server Details

2. Click "Next". It asks you to provide the details of SQL Server to be added.

3. The software lets you add a local or networked SQL Server. You can either enter the name of SQL Server manually in the text box.

4. Alternatively, you can click ... to enumerate all SQL Servers in a list.
**NOTE:** User should be assigned the role of sysadmin in SQL Server. If you are using a local system administrator or domain administrator to run LepideAuditor Suite Service, then its login with Windows Authentication and sysAdmin role should exist in SQL Server.

If the user login does not exist already, then follow the steps below to create it.

1. Open “**SQL Server Management Studio**”.
2. Select SQL or Windows Authentication.
3. Enter username and password of a SQL Server Administrator.
4. Click “Connect”.
5. In the left tree panel, go to “**Security**” → “**Logins**”.
6. Right click on “**Logins**” and select “**New Login**”.
8. Enter the same login name as that of local system administrator or domain administrator, with which you are running LepideAuditor Suite Server.
9. Switch to “**Server Roles**” and select “**sysAdmin**”.
10. Click “OK”.

If the user exists but no such rights are assigned, then follow these steps to assign the required rights:

1. Open “**SQL Server Management Studio**”.
2. Select SQL or Windows Authentication.
3. Enter username and password of a SQL Server Administrator.
4. Click “Connect”.
5. In the left tree panel, go to “**Security**” → “**Logins**”.
6. Expand “**Logins**” and select the required user.
7. Right click on the user and select “**Properties**”.
8. Switch to “**Server Roles**” and select “**sysAdmin**”.
9. Click “OK”.
10. Go to Status page, select Grant and Enabled.
11. Click “OK”.
5. Click icon to expand the listings for local and network servers. You can click icon to collapse the list.

6. Select a server and click "OK". It takes you back the "SQL Server Settings" box, which will now show the selected SQL Server.

7. You have to select either Windows Authentication or SQL Server Authentication. Selecting latter is recommended.

8. Enter the username and password of a SQL Server user.

9. Select any of the following radio buttons for "Auditing Method".
   a) **With Agent**: Click this button to install an agent for auditing SQL Server.
   b) **Without Agent**: Click this button to add the SQL Server without installing any agent.

10. Please view the following snapshot displaying the details of a sample server.
11. Click "Next" to proceed.
2.1.2 Database Settings

The next step shows “Database Settings”.

NOTE: You can click button to load the SQL Server Settings from "Default SQL Server Settings".
Follow the steps below to configure the database settings.

1. Enter the name of a SQL Server or click icon to select a local or network hosted SQL Server.
2. Select the authentication type, preferably "SQL Authentication" for a remote SQL Server.
3. Enter the login credentials of a SQL administrative user.
4. Enter the desired name of database in which the SQL Server auditing logs will be stored. You can provide the name of same database used earlier to store domain and/or SharePoint auditing logs. Following screenshot displays the sample details.

*Figure 9: Sample Details in Database Settings*
5. Click **Test Connection** to test the connection to SQL Server.

6. Click "Finish".

### 2.1.3 Install SQL Auditing Agent

If you have selected “Without Agent” in above step, then agent installation wizard will not be displayed and this step will be skipped.

Selecting “With Agent” will show "Install Agent" wizard.

![Install Agent](image)

This wizard will guide you for Agent Installation.

With this wizard you can perform:

- Installation of the Agent.

*Figure 10: “Install Agent” wizard*
Click "Next" to proceed and follow onscreen instructions. Please refer to “5.4 Install SQL Agent” section to know these steps in detail.

Once installed, it displays a message box asking the permission to restart the software.

![Image of message box]

*Figure 11: Restart Software*

Click "Yes" to restart the software.

SQL Server will be added in software. Once restarted, a new SQL Server tab will be created under “Radar” tab.

![Image of SQL Server tab in Radar]

*Figure 12: SQL Server Tab in Radar*
2.2 Add SQL Server with Advanced Configuration

At the following wizard, you have to select “Advanced Configuration” option.

![Add SQL Server Configuration Type](image)

Figure 13: Adding SQL Server with Advanced Configuration

Click “Next”.

Here, have to provide the details of SQL Server to be added.
2.2.1 SQL Server Details

This setting is already explained in Express Configuration. Please click 2.1.1 SQL Server Details link to know more.

Click Next button to proceed.
2.2.2 SQL Health Monitoring

The next step displays the SQL Server Health Monitoring Settings.

If you want to enable the health monitoring of SQL Server, check the box "Enable Health Monitoring". Keep it unchecked for not enabling the health monitoring.

Once "Health Monitoring" is enabled, you have to provide the following details of the computer where SQL Server is installed.
1. **Computer Name**: Enter the name or IP Address of the computer where SQL Server is installed.
2. **User Name**: Provide the name of an administrator user of that computer.
3. **Password**: Enter the password of above user.

Following is the screenshot of sample details.

![Sample Details for SQL Health Audit Settings](image)

*Figure 16: Sample Details for SQL Health Audit Settings*

Click “Next” to proceed.
2.2.3 Audit Settings

The next step displays “Audit Settings”.

At this step, you need to specify the auditing type. There are following options available:

a. **Audit Everything**: All the Server objects and Database objects including the databases created in future will be audited.

b. **Audit Server**: Only Server objects will be audited no database objects will be audited.
c. **Audit Server with Selected Databases:** Server objects and only selected database objects will be audited. If you select this option, then you have to select which databases you want to audit.

![Audit Server with Selected Databases](image)

**Figure 18: Listing all databases to audit**

Check the boxes for the databases to be audited. Please note that unchecked databases will not be audited or monitored.

Click on **Next** button once you are done. The next page shows “Object Settings”.
2.2.4 Object Settings

In this page, you need to select server and database objects and operations for auditing. You can check the box for the object that has to be monitored. Further, you can click the operations to select which operations has be audited or excluded from auditing.

Follow the steps below to select the operations for an object.

1. Select an operation cell for an object either server or database.
2. It will show an ▼ arrow. Click the down arrow to access the list of operations.

3. Uncheck the operations that you do not want to audit.

4. Click "OK" to modify the operations selection for "Login" object.

Click ▶ button to proceed. The next page displays “User Settings”.
2.2.5 User Settings

It has the following options.

1. **Audit All Users**: Select this option to audit all users.

2. **Audit Selected Users**: Select this option to enable the "Users" section and enumerate all SQL users in it.
Here, you can check the users to be audited and uncheck them to exclude from auditing.

Click “Next” once you are done with User Settings. The next page will display database settings.

### 2.2.6 Database Settings

**NOTE:** You can click button to load the SQL Server Settings from “Default SQL Server Settings”.

---

Figure 25: Listing all users
This setting is already explained in Express Configuration. Please click 2.1.2 Database Settings link to know more.

### 2.2.7 Archive Database Settings

In this page, you need to provide archive data details. This is an optional step and you can skip it if you do not want to archive audit data.

![Archive Database Settings](image)

*Figure 26: Archive Database Settings to add SQL Server*
Archive Audit Data: Select this checkbox if you want to archive audit data.

NOTE: You can click button to load the SQL Server Settings from "Default SQL Server Settings".

In Configure Database section, there are two options:

**SQL Server:** Enter name of SQL Server in which you want to configure your database for audit log archiving. You can also click on button to enumerate all local and remote SQL Servers in the network.

Authenticate the SQL Server configuration by either way:

1. **Windows authentication:** Choose this option to allow the software to access SQL Server using the credentials with which the user is currently logged in.
2. **SQL Server authentication:** Provide SQL server username and password to allow the software to access SQL using these credentials.

Refer [SQL Server Rights](#) section to see what User rights are required.

**Archive Database Name:** Enter a name for the new archive database. In this example we have provided Archive_SharePoint_database as name.

You can click on to check if a successful connection can be established or not.

In Schedule section, there are following options:

1. **Monthly:** Select this option if you want to archive audit data on monthly basis.
2. **Weekly:** Select this option if you want to archive audit data on weekly basis.
3. In this example we have selected Monthly option.
4. **Select Dates:** Select the dates on which you want to run the archiving job.
5. **Start Time:** Specify the Start Time to run the archiving job on the above selected date.
6. **Archive Older than:** Enter number of days whose data you want to exclude counting backwards from the scheduled date. For example, if you enter 30 days, software will exclude the last 30-days’ data and will archive all data from beginning of time to the date 30 days before scheduled date.
7. **Delete records from production database after archiving:** Select this checkbox to delete all the archived data from the production database.

Click “Finish” to complete the process.
2.2.8 Install SQL Auditing Agent

If you have selected “Without Agent” in above step, then agent installation wizard will not be displayed and this step will be skipped.

“Install Agent” wizard appears only when you have selected to add SQL Server with agent.

![Agent Installation wizard](image)

*Figure 27: Agent Installation wizard*

Click "Next" to proceed and follow onscreen instructions. Please refer to “5.4 Install SQL Agent” section to know these steps in detail.

Once installed, it displays a message box asking the permission to restart the software.

![Restart software](image)

*Figure 28: Asking to restart the software*
Click “Yes” to restart the software. After restart, a new tab is displayed showing dashboard for the newly added SQL Server. The following image shows how software looks like after it is launched. Once restarted, a new SQL Server tab will be created under “Radar” tab.

![Figure 29: SQL Server Tab in Radar](image)

The SQL Server Settings are displayed in “Settings” Tab under “Component Management”.
Figure 30: SQL Server Management

SQL Server Management lets you manage and remove the listing of SQL Server. Here, you can uninstall the auditing agent, configure the auditing, reinstall the auditing agent, and manage health monitoring.
3. Remove SQL Server

You can remove the listing of a SQL Server from LepideAuditor Suite. After this, the software will not monitor and audit that SQL Server. Follow the steps below,

1. Use any of the following methods to start with.
   a. Go to "Settings" tab → "Component Management", select the added SQL Server from the list. Click “Remove” in “Actions” pane.

   ![Figure 31: Removing the selected SQL Server](image)

   b. Right click on “SQL Server” node under “Component Management” and click “Remove”.

   ![Figure 32: Option to remove SQL Server](image)

2. Following any of the above methods will display the warning message.
3. It shows “Uninstall Agent” wizard.

4. Click “Next”.
5. The next step shows the details of SQL Server from which you have to uninstall the agent. Kindly don’t modify the existing details.
6. Click "Next" to proceed. The next step shows the summary of steps.
7. Click on "Next" to start the uninstallation of agent.
8. "Finish" button is activated once the uninstallation is completed.

9. Click "Finish". It shows the following message box asking you to restart the software

10. Click "Yes".

After restart, the SQL Server will be removed from the auditing list.
4. Modify SQL Server Properties

Follow the steps below to modify the properties of SQL Server..

1. Go to "Settings" tab → "Component Management", select the SQL Server and use any of the following methods to start.
   a. Select the SQL Server and click "Properties" in "Actions" pane on left.

   ![Figure 39: Option to view the SQL Server Properties](image)

   b. Right click on the SQL Server node under "Component Management" and click "Properties".

   ![Figure 40: Option to view properties of SQL Server](image)

2. Following any of the above methods will display the following wizard.
3. **SQL Server Credentials:** Here, you can change the following options.
   
a. **Authentication Type:** You can select either Windows authentication or SQL Server authentication.

   b. Username and Password for SQL Server Authentication

4. **Auditing Method:** For auditing method, here you can select any of the following options.

   a. **With Agent:** Select it to choose agent-based auditing, which will install an agent on SQL Server. If you are switching from agentless to agent-based auditing here, you will receive "Install Agent" process.

   b. **Without Agent:** Select it to choose the agentless auditing, where no agent will be installed and run on SQL Server. If you are switching from agent-based auditing to agentless auditing here, then "Uninstall Agent" wizard will appear.

5. You cannot change the name of SQL Server.
6. **Health Audit Settings**: It lets you modify the health auditing of SQL Server. Checking the box will enable SQL Health Monitoring whereas unchecking it will disable it.

![Health Audit Settings](image)

**Figure 42: SQL Server Health Auditing**

7. Here, you have to provide the details of computer where SQL Server is installed.
   a. **Computer Name**: Enter the name or IP Address of computer where SQL Server is installed.
   b. **User Name**: Provide the name of an administrator user of that computer.
   c. **Password**: Enter the password of above user.

8. **Audit Settings**: It lets you modify the auditing settings of SQL Server. Clicking it will show the audit types.
9. It has the following options.
   a. **Audit Everything**: Select this option to audit all server objects and databases.
   b. **Audit Server**: Select this option to audit only the server objects. The databases will not be audited.
   c. **Audit Server with selected databases**: Select this option to audit all server objects but selected databases. It lets you select the databases, which has to be audited and which not. Choosing it will enable the area containing the list of databases.
10. Here, you can select the databases to be audited by checking them. You can uncheck the databases, which you don't want to audit.

11. If unchecked, LepideAuditor Suite will not monitor and audit these databases. You have to include all databases or select "Audit All" to turn on the auditing of the excluded databases.

12. **Object Settings**: Here, you can specify what database objects, server objects, operations, and users have to be audited or excluded from auditing.

*Figure 44: Select the databases to be audited*
13. You have to uncheck the boxes for items, which you do not want to audit.

14. **User Settings**: Select the option "Select Users" in the section - "Select User(s) to audit". This will enable the list of users in the adjoining area.
15. Check the boxes for the users to be audited.

16. **Database Settings:** Here, you can modify the database settings. You can select a different SQL Server, authentication mode, and database.

17. **Archive Database Settings:** Here, you can modify the archive database settings for the domain.
5. Manage SQL Auditing Agent

You can perform the following tasks to manage the SQL Server Auditing Agent.

- Switch between Agentless and Agent-based auditing (to and fro)
- Uninstall Auditing Agent
  - Uninstall Agent from an added SQL Server
  - Uninstall Agent from not added SQL Server
- Reinstall Auditing Agent

5.1 Switching SQL Auditing Mode

Follow the steps below,

1. Go to "Settings" tab → "Component Management" and use any of the following methods to start.

   A. Select the SQL Server and click "Properties" in "Actions" pane on left.

   ![Figure 47: Clicking "Properties" link in "Actions" pane](image)

   B. Right click on the SQL Server node under "Component Management" and click "Properties".
2. Following any of the above methods displays the following wizard.

3. Here, you can select "With Agent" in "Auditing Method" section to switch to agent-based auditing, which will install an agent on SQL Server. If you are switching from agentless to agent-based auditing here, "Install Agent" wizard appears.
4. You can select "Without Agent" option to choose agentless auditing, where no agent will be installed and run on SQL Server. If you are switching from agent-based auditing to agentless auditing here, then "Uninstall Agent" wizard will appear.

5.2 Uninstall SQL Agent

Follow the steps below to uninstall the SQL auditing agent.

1. Go to "Component Management" → "SQL Server" and use any of the following methods to start with.
   
   A. Select a SQL Server in the list and click "Uninstall".

   ![Figure 50: Link to Uninstall Agent](image1)

   B. Right click on "SQL Server" node under "Component Management" in left panel and select "Uninstall Agent" option.

   ![Figure 51: Option to uninstall SQL Agent](image2)

2. Click "Uninstall Agent" link to launch “Uninstall Agent” wizard.
3. Click “Next” to proceed.

4. The next step shows the details of SQL Server from which you selected to uninstall the agent. Kindly don't modify the existing details.
5. Click on "Next" to proceed.
6. On the below screen, summary of the entire process is displayed.
7. Click on Next to proceed.

8. Agent installation progress is displayed. After completion of the process, "Finish" button is enabled.
9. Click "Finish" to complete the process.

5.3 Uninstall Agent from not added SQL Server
LepideAuditor Suite lets you uninstall agent from not added SQL Server. This will help you to remove the agent installed by an outdated version of LepideAuditor Suite or LepideAuditor for SQL Server. Follow the steps below,

1) Go to "Settings" tab, right click on "Component Management".

![Component Management](image)

**Figure 56: Option to uninstall SQL Agent**

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2) Go to "Uninstall Agent" and click "SQL Server". It shows the following wizard.

![Uninstall Agent Welcome](image)

This wizard will guide you for Agent Uninstallation.

With this wizard you can perform:

- Uninstallation of the Agent.

**Figure 57: Uninstallation Wizard Starts**

3) Click "Next". It now asks the details of SQL Server from which agent has to be uninstalled.
4) You have to enter the following details.

a) **SQL Server Name**: Enter the name or IP Address of SQL Server from which agent has to be removed.

b) **Authentication Type**: You have to select any of the following authentication types

   i) **Windows Authentication**: It will let the software login at SQL Server using the credentials of that user with which you are logged in at the computer currently.

   ii) **SQL Server Authentication**: It will let you provide the username and password of a SQL Server user.
Figure 59: Entered the sample details

5) Click "Next". It displays the summary of above steps.
Figure 60: Summary of steps
6) Click "Next" to start the process to uninstall SQL Agent.

![Uninstall Agent dialog box]

**Agent Uninstall Status**

- Stored Procedure "LepideSProcFilterEngine" is deleted from "SP13-EX10"
- Stored Procedure "LepideSProcExecuteExe" is deleted from "SP13-EX10"
- FilterEngineU.exe Uninstalled from "SP13-EX10"
- ServerPluginU.dll Uninstalled from "SP13-EX10"
- FEDriver.exe Uninstalled from "SP13-EX10"
- SvrInfoWriter.exe Uninstalled from "SP13-EX10"
- SRFFilterEngineU.exe Uninstalled from "SP13-EX10"
- zlib1.dll Uninstalled from "SP13-EX10"
- License Key ServerU.dll Uninstalled from "SP13-EX10"

![Progress bar]

**Figure 61: Uninstalling SQL Agent**

7) Once uninstall, "Finish" button will be activated.
5.4 Install SQL Agent

This wizard also appears when you add a SQL Server with agent in Express or Advanced Configuration. Follow the steps below to install the SQL Auditing agent, if you have uninstalled it.

1. Go to "Component Management" → "SQL Server" and use any of the following methods to start with.

   A. Select a SQL Server in the list and click "Install Agent".

8) Click "Finish" to complete the process and to close the wizard.
B. Right click on "SQL Server" node under "Component Management" in left panel and select "Install Agent" option.

2. Select the SQL Server from the list and click "Install Agent" link in the Actions pane.
3. It starts the Install Agent wizard. It also appears while adding a SQL Server with agent.

![Install Agent](image)

---

This wizard will guide you for Agent Installation.

With this wizard you can perform:

- Installation of the Agent.

---

**Figure 66: Agent Installation**

4. Click "Next" to proceed.

5. The details of the SQL Server are displayed in the next step. Please do not change these details else the agent installation and SQL Server auditing will be interrupted.
6. Click on "Next" to proceed.

7. In the next step, the summary of the entire process is shown. You can click "Back" to go and do required changes, else click on "Next" to proceed.

Figure 67: Showing the SQL Server details
8. Agent Installation process's progress is displayed on this screen. After completion of the process, "Finish" button is enabled.
9. Click "Finish" to close the wizard.

10. Click “OK” to close the SQL Server properties.
6. Manage SQL Health Monitoring

You can enable or disable the health monitoring of SQL Server. Settings Tab → Component Management lets you manage the health monitoring of SQL Server. Here, you can use "Properties" link for SQL Server to exclude and include the server(s) from Health Monitoring.

6.1 Disable Health Monitoring

Follow the steps below to disable the health monitoring of SQL Server.

1. Go to "Settings" tab → "Component Management" and use any of the following methods to start.
   
   A. Select the SQL Server and click "Properties" in "Actions" pane on left.

   ![Figure 70: Clicking "Properties" link in "Actions" pane](image-url)
B. Right click on the SQL Server node under "Component Management" and click "Properties".

![Figure 71: Option to view properties of SQL Server](image1)

2. Following any of the above methods displays the SQL Server properties.

3. Click "Health Auditing" setting in the left panel.

![Figure 72: Modifying Health Auditing Settings](image2)
4. To disable Health Monitoring for SQL Server, uncheck "Enable Health Monitoring".

![Health Audit Settings](image)

**Figure 73: Disabling Health Monitoring of SQL Server**

5. Click "OK" to save the changes in SQL listing.
6.2 Enable SQL Server Health Monitoring

Follow the steps below to enable the Health Monitoring of SQL Server.

1. Go to "Settings" tab → "Component Management" and use any of the following methods to start with.
   A. Select the SQL Server and click "Properties" in "Actions" pane on left.

   ![Figure 74: Clicking "Properties" link in "Actions" pane](image)

   B. Right click on the SQL Server node under "Component Management" and click "Properties".

   ![Figure 75: Option to view properties of SQL Server](image)

2. Following any of the above methods displays the SQL Server properties.
3. Click "Health Auditing" setting in the left panel.

4. Check the box labeled "Enable Health Monitoring".

5. You have to provide the details of computer where SQL Server is installed.

   A. **Computer Name**: Enter the name or IP Address of the computer, where SQL Server is installed.

   B. **User Name**: Provide the name of an administrator user of that computer.

   C. **Password**: Enter the password of above user.

---

*Figure 76: Modifying Health Auditing Settings*
Here is a screenshot of sample details.

![Health Audit Settings dialog box](image)

**Figure 77: Enabling Health Monitoring**

6. Click "OK" to save the changes and enable the health monitoring of SQL Server.
7. Conclusion

After following the above mentioned steps, you will start receiving audit reports and see dashboard details. In order to create alerts and schedule reports for accessing complete software features, check the software help manual:  

http://www.lepide.com/lepideauditor/

Thus, LepideAuditor Suite can be easily configured and used to audit Active Directory, Group Policy Objects, Exchange Servers, SharePoint and SQL Servers. Real-time auditing, Dashboard reports in graphical format and LiveFeed add a definite edge to this application. Moreover, email alerts, scheduled reports and options to restore AD state make it a one-stop solution for all Auditing purposes.

To read more about the software visit:  

http://www.lepide.com/lepideauditor/

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