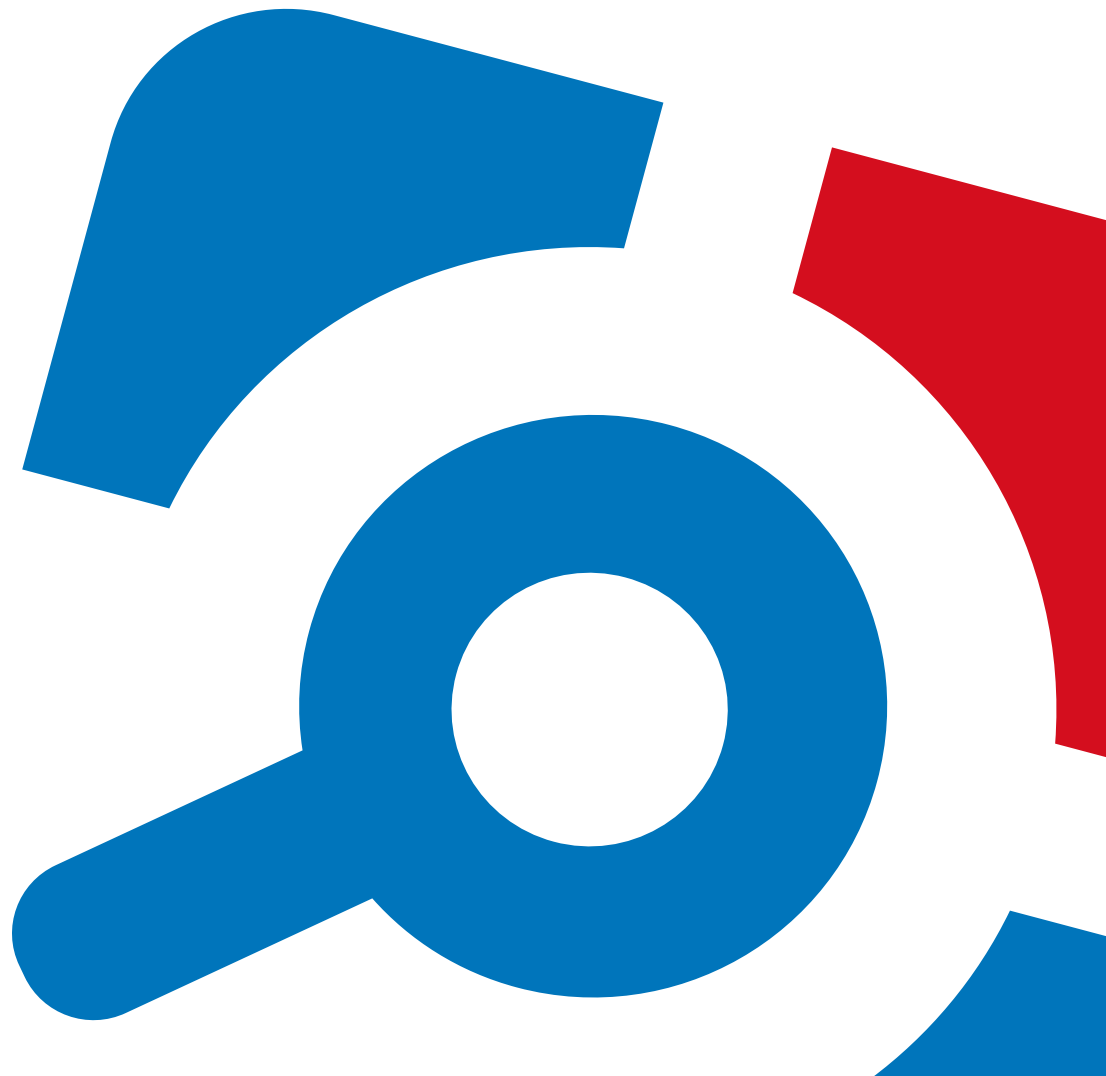


Netwrix Auditor Add-on for Solarwinds Log & Event Manager Quick-Start Guide

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1. Introduction

This guide is intended for the first-time users of Netwrix Auditor Integration API add-ons. It can be used for evaluation purposes, therefore, it is recommended to read it sequentially, and follow the instructions in the order they are provided. After reading this guide you will be able to:

- Define add-on parameters
- Execute the add-on
- Review results

NOTE: The add-on works only in combination with Netwrix Auditor so this guide covers a basic procedure for running the add-on and assumes that you have Netwrix Auditor installed and configured in your environment. For installation scenarios, data collection options, as well as detailed information on Integration API, refer to:

- [Netwrix Auditor Installation and Configuration Guide](#)
- [Netwrix Auditor Administration Guide](#)
- [Netwrix Auditor Integration API Overview](#)

1.1. Netwrix Auditor Overview

Netwrix Auditor is a visibility platform for user behavior analysis and risk mitigation that enables control over changes, configurations and access in hybrid IT environments to protect data regardless of its location. The platform provides security analytics to detect anomalies in user behavior and investigate threat patterns before a data breach occurs.

Netwrix Auditor includes applications for Active Directory, Azure AD, Exchange, Office 365, Windows file servers, EMC storage devices, NetApp filer appliances, SharePoint, Oracle Database, SQL Server, VMware, and Windows Server. Empowered with a RESTful API and user activity video recording, the platform delivers visibility and control across all of your on-premises or cloud-based IT systems in a unified way.

Major benefits:

- Detect insider threats—on premises and in the cloud
- Pass compliance audits with less effort and expense
- Increase productivity of IT security and operations teams

2. Netwrix Auditor Add-on for Solarwinds Log & Event Manager Overview

Netwrix Auditor helps you protect and get most from your Solarwinds Log & Event Manager investment. The Netwrix Auditor Add-on for Solarwinds Log & Event Manager works in collaboration with Netwrix Auditor, supplying additional data that augments the data collected by Solarwinds Log & Event Manager.

The add-on enriches your SIEM data with actionable context in human-readable format, including the before and after values for every change and data access attempt, both failed and successful. Aggregating data into a single audit trail simplifies analysis, makes your SIEM more cost effective, and helps you keep tabs on your IT infrastructure.

Implemented as a PowerShell script, this add-on facilitates the audit data transition from Netwrix Auditor to Solarwinds Log & Event Manager. All you have to do is provide connection details and schedule the script for execution.

On a high level, the add-on works as follows:

1. The add-on connects to the Netwrix Auditor server and retrieves audit data using the Netwrix Auditor Integration API.
2. The add-on processes Netwrix Auditor-compatible data (Activity Records) into log events that work as input for Solarwinds Log & Event Manager. Each event contains the user account, action, time, and other details.
3. The add-on creates a special Windows event log (Netwrix_Auditor_Integration) and stores events there. These events are structured and ready for integration with Solarwinds Log & Event Manager.

For more information on the structure of the Activity Record and the capabilities of the Netwrix Auditor Integration API, refer to [Netwrix Auditor Integration API Overview](#).

2.1. Compatibility Notice

In Netwrix Auditor 9.0, Netwrix has updated API schemas. The scripts and add-ons designed for Netwrix Auditor 8.0 – 8.5 might become inoperable in Netwrix Auditor 9.5, while new add-ons designed for 9.0 and 9.5 cannot run at Netwrix Auditor 8.0 – 8.5.

Make sure to check your product version, and then review and update your add-ons and scripts leveraging Netwrix Auditor Integration API. Download the latest add-on version in the Add-on Store. For more information about schema updates, refer to [Netwrix Auditor Integration API](#).

3. Use the Add-On

3.1. Prerequisites

Before running Netwrix Auditor Add-on for Solarwinds Log & Event Manager, ensure that all the necessary components and policies are configured as follows:

On...	Ensure that...
The Netwrix Auditor Server side	<ul style="list-style-type: none"> The Audit Database settings are configured in Netwrix Auditor Server. The TCP 9699 port (default Netwrix Auditor Integration API port) is open for inbound connections. The user retrieving data from the Audit Database is granted the Global reviewer role in Netwrix Auditor or is a member of the Netwrix Auditor Client Users group. <p>Alternatively, you can grant the Global administrator role or add the user to the Netwrix Auditor Administrators group. In this case, this user will have the most extended permissions in the product.</p>
The computer where the script will be executed	<ul style="list-style-type: none"> Execution policy for powershell scripts is set to <i>"Unrestricted"</i>. Run Windows PowerShell as administrator and execute the following command: <pre>Set-ExecutionPolicy Unrestricted</pre> The user running the script is granted the write permission on the script folder—the add-on creates a special .bin file with the last exported event. The user running the script must be a member of the Domain Users group.

3.2. Define Parameters for Add-On

Before running or scheduling the add-on, you must define connection details: Netwrix Auditor Server host, user credentials, etc. Most parameters are optional, the script uses the default values unless parameters are explicitly defined. You can skip or define parameters depending on your execution scenario and security policies. See [Choose Appropriate Execution Scenario](#) for more information.

First provide a path to your add-on followed by script parameters with their values. Each parameter is preceded with a dash; a space separates a parameter name from its value. You can skip some parameters—the script uses a default value unless a parameter is explicitly defined.

Parameter	Default value	Description
NetwrixAuditorHost	localhost:9699	<p>Assumes that the add-on runs on the computer hosting Netwrix Auditor Server and uses default port 9699.</p> <p>If you want to run the add-on on another machine, provide a name of the computer where Netwrix Auditor Server resides (e.g., 172.28.6.15, EnterpriseNAServer, WKS.enterprise.local).</p> <p>To specify a non-default port, provide a server name followed by the port number (e.g., WKS.enterprise.local:9999).</p>
NetwrixAuditorUserName	Current credentials	<p>user Unless specified, the add-on runs with the current user credentials.</p> <p>If you want the add-on to use another account to connect to Netwrix Auditor Server, specify the account name in the DOMAIN\username format.</p> <p>NOTE: The account must be assigned the Global reviewer role in Netwrix Auditor or be a member of the Netwrix Auditor Client Users group on the computer hosting Netwrix Auditor Server.</p>
NetwrixAuditorPassword	Current credentials	<p>user Unless specified, the script runs with the current user credentials. Provide a different password if necessary.</p>

3.3. Choose Appropriate Execution Scenario

Netwrix Auditor Add-on for Solarwinds Log & Event Manager runs on any computer in your environment. For example, you can run the add-on on the computer where Netwrix Auditor is installed or on a remote server. Depending on the execution scenario you choose, you have to define a different set of parameters. See [Define Parameters for Add-On](#) for more information.

Netwrix suggests the following execution scenarios:

Scenario	Example
The add-on runs on the Netwrix Auditor Server with the current user credentials. Activity Records are exported to a local event log.	<code>C:\Add-ons\Netwrix_Auditor_Add-on_for_Solarwinds_Log_and_Event_Manager.ps1</code>
The add-on runs on the Netwrix Auditor Server with explicitly defined credentials. Activity Records are exported to a local event log.	<code>C:\Add-ons\Netwrix_Auditor_Add-on_for_Solarwinds_Log_and_Event_Manager.ps1 -NetwrixAuditorUserName enterprise\NAuser -NetwrixAuditorPassword NetwrixIsCool</code>
The add-on exports Activity Records from a remote Netwrix Auditor Server using current user credentials and writes data to a local event log.	<code>C:\Add-ons\Netwrix_Auditor_Add-on_for_Solarwinds_Log_and_Event_Manager.ps1 -NetwrixAuditorHost 172.28.6.15</code>
The add-on exports Activity Records from a remote Netwrix Auditor Server using explicitly defined credentials and writes data to a local event log.	<code>C:\Add-ons\Netwrix_Auditor_Add-on_for_Solarwinds_Log_and_Event_Manager.ps1 -NetwrixAuditorHost 172.28.6.15 -NetwrixAuditorUserName enterprise\NAuser -NetwrixAuditorPassword NetwrixIsCool</code>

For security reasons, Netwrix recommends running the script with current user credentials (skipping user credentials). Create a special user account with permissions to both Netwrix Auditor data and event log and use it for running the script.

3.4. Run the Add-On with PowerShell

To run the script with PowerShell

1. On computer where you want to execute the add-on, start **Windows PowerShell**.
2. Type a path to the add-on. Or simply drag and drop the add-on file in the console window.
3. Add script parameters. The console will look similar to the following:

```
Windows PowerShell
Copyright (C) 2014 Microsoft Corporation. All rights reserved.
PS C:\Users\AddOnUser> C:\Add-ons\Netwrix_Auditor_Add-on_for_Solarwinds_Log_and_Event_Manager.ps1 -NetwrixAuditorHost 172.28.6.15
```

NOTE: If the script path contains spaces (e.g., `C:\Netwrix Add-ons\`), embrace it in double quotes and insert the ampersand (&) symbol in front (e.g., `& "C:\Netwrix Add-ons\"`).

4. Hit **Enter**.

Depending on the number of Activity Records stored in Netwrix Auditor Audit Database execution may take a while. Ensure the script execution completed successfully. The `Netwrix_Auditor_Integration` event log will be created and filled with events.

NOTE: By default, the Netwrix_Auditor_Integration event log is set to 1GB and *"Overwrite events as needed"*. Also, all records exceeding 30,000 symbols are trimmed.

Every time you run the script, Netwrix Auditor makes a timestamp. The next time you run the script, it will start retrieving new Activity Records.

3.5. Automate Add-On Execution

To ensure you feed the most recent data to your SIEM solution, Netwrix recommends scheduling a daily task for running the add-on.

To create a scheduled task

1. On the computer where you want to execute the add-on, navigate to **Task Scheduler**.
2. Select **Create Task**.
3. On the **General** tab, specify a task name, e.g., Netwrix Auditor Add-on for Solarwinds Log & Event Manager. Make sure the account that runs the task has all necessary rights and permissions.
4. On the **Triggers** tab, click **New** and define the schedule. This option controls how often audit data is exported from Netwrix Auditor and saved to event log. Netwrix recommends scheduling a daily task.
5. On the **Actions** tab, click **New** and specify action details. Review the following for additional information:

Option	Value
Action	Set to <i>"Start a program"</i> .
Program/script	Input <i>"Powershell.exe"</i> .
Add arguments (optional)	Add a path to the add-on in double quotes and specify add-on parameters. For example: <pre>-file "C:\Add-ons\Netwrix_Auditor_Add-on_for_Solarwinds_Log_and_Event_Manager.ps1" -NetwrixAuditorHost 172.28.6.15</pre>

6. Save the task.

After creating a task, wait for the next scheduled run or navigate to **Task Scheduler** and run the task manually. To do this, right-click a task and click **Run**.

3.6. See Results

1. On the computer where you executed the add-on, navigate to **Start** → **All Programs** → **Event Viewer**.

2. In the **Event Viewer** dialog, navigate to **Event Viewer (local) → Applications and Services Logs → Netwrix_Auditor_Integration** log.
3. Review events.

Now you can augment Solarwinds Log & Event Manager with data collected by Netwrix Auditor.

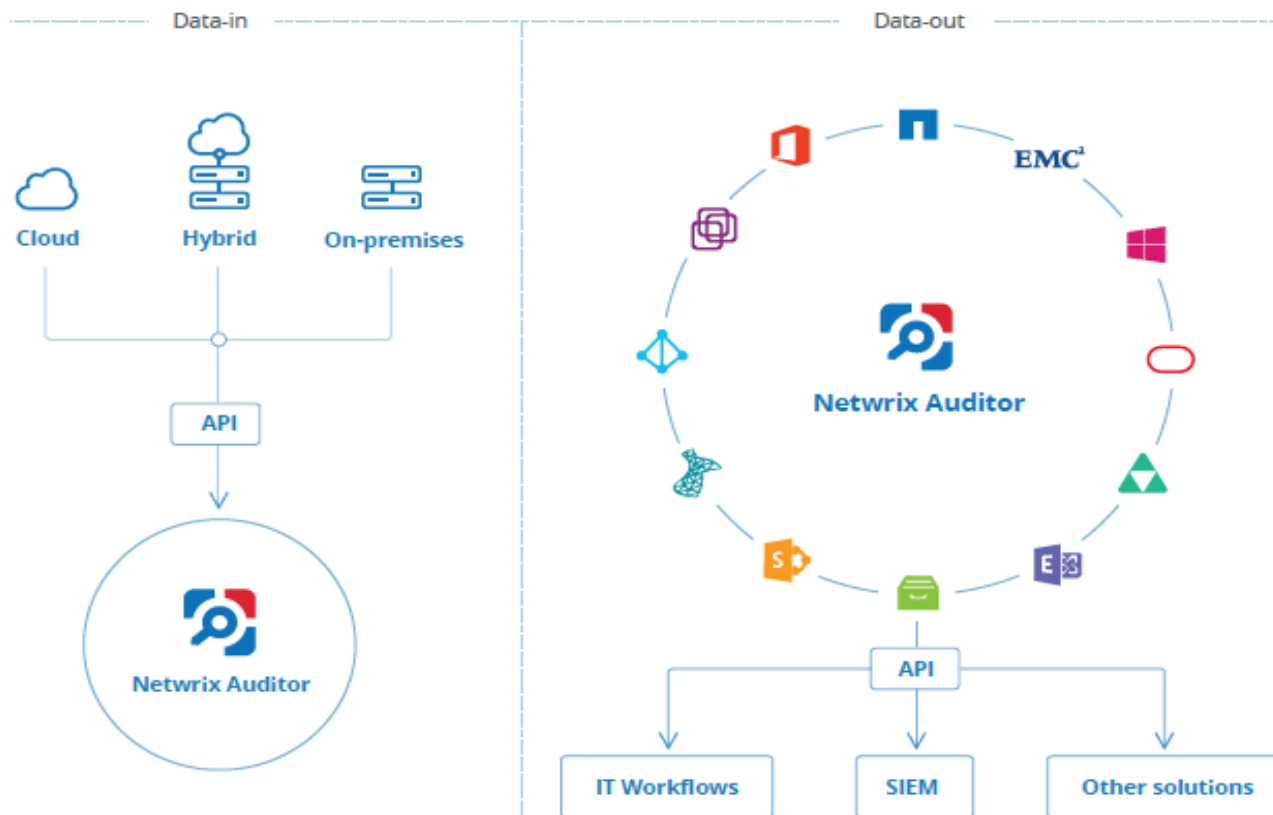
4. Netwrix Auditor Integration API Overview

Netwrix Auditor Add-on for Solarwinds Log & Event Manager leverages Netwrix Auditor Integration API. Although you can always use the add-on as is, but Netwrix encourages customers to create their own integration add-ons. The add-ons created based on Netwrix Auditor Integration API capabilities are easily tailored to your specific environment and business requirements.

Netwrix Auditor Integration API—endless integration, auditing and reporting capabilities.

The Netwrix Auditor Integration API provides access to audit data collected by Netwrix Auditor through REST API endpoints. According to the RESTful model, each operation is associated with a URL. Integration API provides the following capabilities:

- **Data in:** Solidify security and meet regulatory compliance standards by enabling visibility into what is going on in any third-party application.
- **Data out:** Further automate your business processes, IT security and operations workflows by enriching third-party solutions with actionable audit data.



Netwrix Auditor Integration API operates with XML- and JSON-formatted Activity Records—minimal chunks of audit data containing information on *who* changed *what*, *when* and *where* this change was made. XML format is set as default.

With Integration API you can write Activity Records to the SQL Server-based Audit Database and access audit data from remote computers. Also, Netwrix prepares add-ons—sample scripts—to help you integrate your SIEM solutions with Netwrix Auditor.

Netwrix does not limit you with applications that can be used with Integration API. You can write RESTful requests using any tool or application you prefer—cURL, Telerik Fiddler, various Google Chrome or Mozilla FireFox plug-ins, etc.

See [Netwrix Auditor Integration API Guide](#) for more information.