

Quest® InTrust 11.3.1

# Preparing for Auditing and Monitoring Microsoft IIS



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### **Legend**

-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
-  **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

InTrust Preparing for Auditing and Monitoring Microsoft IIS

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# IIS Auditing Overview

InTrust with the Knowledge Pack for Microsoft IIS allows you to gather and monitor for events generated by Microsoft Internet Information Services (IIS). This information allows you to stay informed about who has been using the server and how many times your online information was accessed.

You can collect, report, and monitor for events generated by Microsoft IIS versions 7.0 and later. Gathering (but not monitoring) of events generated by Microsoft FTP Service is also supported.

**i** **IMPORTANT:** Make sure IIS is configured as follows:

- For real-time monitoring to work, on 64-bit Windows, IIS must be running in 32-bit mode.
- For gathering to work, IIS logging must be done on a per-site basis, meaning that the **One log per** option must be set to **Site** (instead of **Server**) in IIS Manager.

InTrust can process the event data written by IIS to the following logs:

- Microsoft IIS WWW Log
- Microsoft IIS FTP Log
- Windows Security Log (events generated by IIS)

# Installing the Knowledge Pack for Microsoft IIS

Support for IIS auditing and real-time monitoring is provided by the Knowledge Pack for Microsoft IIS. The Knowledge Pack must be installed on top of an existing InTrust installation.

# Configuring Service Logging for IIS and FTP Service

1. In Internet Information Services Manager, in the left pane, click the necessary site or server.
2. In the right pane, click **Logging**.
3. On the screen that opens, set the Format option to **W3C**.
4. Configure other logging options as necessary.

# Known Issues with IIS 7.0 and FTP Service 7.5

The following issues exist with gathering and real-time monitoring of IIS 7.0 and FTP Service 7.5 logs:

1. The "Oversized request" real-time monitoring rule does not work for these logs.
2. When gathering uses agent-side log backup, filtering by the **sc-bytes**, **cs-bytes** and **time-taken** fields does not work in the following audit data filters:
  - MS IIS: Web Site: Failed Access
  - MS IIS: Web Site: Restricted Access
  - MS IIS FTP Site Log
  - MS IIS: Web Site: Warning-code Access
  - MS IIS: FTP Site: Successful Logons
  - MS IIS: Web Site: Successful Access
  - MS IIS: FTP Site: Failed Logons
  - MS IIS: FTP Site: Upload
  - MS IIS: FTP Site: All Logons
  - MS IIS Web Site Log
  - MS IIS: Web Site: Not Found Errors
  - MS IIS: FTP Site: Download
3. If gathering uses agent-side log backup, the "Web site total statistics" and "WEB site daily traffic [chart]" reports cannot be generated from the resulting events.
4. Real-time monitoring and gathering of FTP logs with the agent-side audit log backup enabled does not work.
5. Gathering of WWW log in UTF-8 format does not work if **Do not create new log files** logging option is selected.

# How to Gather Event Data with InTrust

IIS logs can be collected with or without agents. For successful gathering, make sure the system requirements are met, as described in [Microsoft IIS Events](#).

## To gather IIS log data

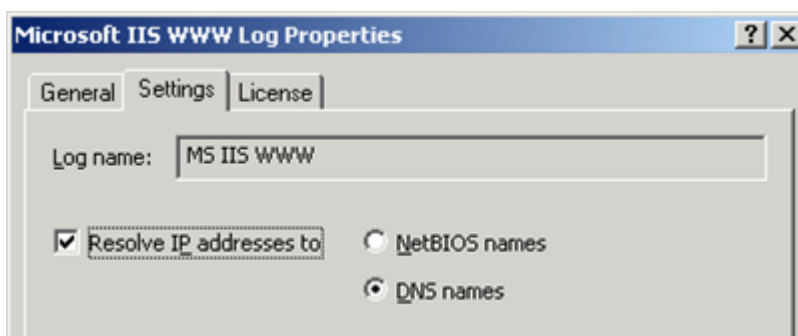
1. In InTrust Manager, select **Configuration | Sites | Microsoft Windows Network**, and make sure the **All IIS Servers** site includes your IIS servers.
2. To automatically install agents on the site computers, select **Install Agents** from the site's shortcut menu.
3. Select the **IIS Daily Collection** task, or configure a new task as needed, with a gathering job associated with the correct gathering policy and site. In the task properties, select the **Schedule enabled** option.
4. Select the **IIS Weekly Reporting** task, or configure a new reporting task as needed, and enable its schedule in the similar way.

**! CAUTION:** If you change the location of IIS log files between gathering sessions, make sure the old log files are available in the new location.

## IP Address Resolution

If specified by InTrust settings, IP addresses found in the log are resolved to host names, and InTrust saves them both (IP addresses and host names) into the log, appending them to original fields. This can significantly slow down the gathering process; so this option is disabled by default. If necessary, you can enable this option in the following way:

1. In InTrust Manager, select **Configuration | Data Sources**.
2. On the right pane, select the IIS log you need, for example, Microsoft IIS WWW Log
3. From its shortcut menu, select **Properties**, on the **Settings** tab select **Resolve IP addresses to** and specify whether to resolve them into NetBIOS names or DNS names:





# How to Monitor for Critical Events

To monitor for critical events, InTrust agents are used on the computers included in the target site. If the agents are not yet installed, they will be deployed automatically as soon as you activate a real-time monitoring policy.

To simplify the configuration of the real-time monitoring workflow, InTrust Knowledge Pack for Microsoft IIS offers predefined monitoring rules and policies.

**i | IMPORTANT:** For real-time monitoring to work on 64-bit Windows, IIS must be running in 32-bit mode.

## *To configure IIS monitoring with InTrust*

1. In InTrust Manager, carry out the following:
  - a. Enable the rule that will handle the events you need, for example, 'Unauthorized web-page access attempt', or any other rule from **Real-Time Monitoring | Rules | IIS RTM Rules | Common Attacks**.
  - b. Activate a monitoring policy that will bind this rule to your InTrust site, that is the **Real-Time Monitoring | Policies | IIS Security** policy.
  - c. If you want to get an email notification upon alert generation, in the **Configuration | Personnel**, select **Notification Groups**, select the necessary group and specify the desired recipients.
  - d. Select the site you will monitor (All IIS Servers), and from its shortcut menu, select **Properties**. Click **Security**, and make sure the list of accounts includes users you want to be able to work with the alerts (as alert readers or alert managers). Check the same for the rule group containing the rule you are using.
2. In Monitoring Console, do the following:
  - a. Open the profile you want to work with, or create a profile by running Monitoring Console Administration from the Start menu.
  - b. Configure an alert view to display the necessary alerts.

For detailed information on configuring gathering and monitoring processes, refer to the [Auditing Guide](#) and [Real-Time Monitoring Guide](#).

# InTrust Knowledge Pack for Microsoft IIS

The Knowledge Pack for Microsoft IIS offers a set of predefined InTrust objects that will help you configure the gathering and monitoring of event data from your IIS servers. The following objects are included:

- Gathering policies:
  - IIS: Security  
Collects all IIS security events to both a repository and a database.
  - IIS: Health  
Collects all IIS health events both to a repository and a database.
  - IIS: Usage: WWW  
Collects IIS Web Site log both to a repository and a database.
  - IIS: Usage: FTP  
Collects IIS FTP Site log both to a repository and a database.
- Import policies:
  - IIS: Security  
Imports all IIS security events to a database.
  - IIS: Health  
Imports all IIS health events to a database.
  - IIS: Usage: WWW  
Imports events from IIS Web Site log to a database.
  - IIS: Usage: FTP  
Imports events from IIS FTP Site log to a database.
- Jobs:
  - IIS Security events collection  
Collection of all the IIS security events to the default repository and the default database.
  - IIS Web Site Reporting  
Weekly reporting of IIS Web Site usage and security events.
  - IIS FTP Reporting  
Weekly reporting of IIS FTP Site usage and security events.
- Tasks:
  - IIS Daily collection  
Daily collection of all the IIS events to the default repository and the default database.
  - IIS Weekly Reporting  
Weekly reporting of IIS statistics and the most critical events.
- “All IIS servers” site
- “IIS Security” real-time monitoring policy  
Applies real-time monitoring rules related to IIS security.

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## Contacting Quest

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- Chat with support engineers online
- View services to assist you with your product