

NetWitness[®] Platform

Microsoft Network Access Protection Event Source Log Configuration Guide

Microsoft Network Access Protection

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Event Source Product Information:

Vendor: [Microsoft](#)

Event Source: Network Access Protection

Versions: 1.1

RSA Product Information:

Supported On: NetWitness Platform 12.3 and later

Event Source Log Parser: msnap

Collection Methods: ODBC and Logstash

Event Source Class.Subclass: Security.Access Control

Contact Information

NetWitness Community at <https://community.netwitness.com> contains a knowledge base that answers common questions and provides solutions to known problems, product documentation, community discussions, and case management.

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Configure Microsoft Network Access Protection

To configure Microsoft Network Access Protection to work with NetWitness Platform, you must complete these tasks:

- I. Configure the SQL Server Database
- II. Configure SQL Logging for the Network Policy Server

Configure the SQL Server Database

To configure the SQL Server database:

1. Connect to the target SQL database for Network Policy Server (NPS) logging.
2. Log on to the Microsoft SQL Server Management Studio with administrative credentials.
3. Right-click **Databases**, and click **New Database**.
4. In the **Database Name** field, type **MSNAP**.
5. Accept the default values, and click **OK**.

Configure SQL Logging for the Network Policy Server

Configuring SQL logging for the Network Policy Server is done differently depending on your version of the Microsoft Windows server.

- For configuration instructions with Microsoft Windows Server 2008 R2, see [Configure Using Microsoft Windows Server 2008 R2](#).
- For configuration instructions with Microsoft Windows Server 2008, see [Configure Using Microsoft Windows Server 2008](#).

Configure Using Microsoft Windows Server 2008 R2

To configure SQL logging using Microsoft Windows Server 2008 R2:

1. To open the NPS console, click **Start > Run**, and type **nps.msc**.
2. Log on to the NPS console with administrative credentials.
3. In the navigation pane, click **Accounting**.
4. In the **Accounting** section, click **Configure Accounting**.
5. Click **Next**.
6. Ensure that **Log to SQL Server Database** is selected, and click **Next**.
7. Ensure that all the event types are selected.

-
8. Depending on your security policy, select **If logging fails, discard connection requests**.
 9. Click **Configure**, and from Data Link Properties window, follow these steps.
 - a. Click the **Connection** tab.
 - b. Enter the SQL server database name.
 - c. Select **Use a specific user name and password**
 - d. Enter the administrative user from the SQL server database and the password.
 - e. Select **Allow saving password**.
 - f. In the **select the database on the server** drop-down list, select **MSNAP**.
 - g. Click **OK**.
 10. Click **Next**, and click **Next** again.
 11. Click **Rebuild**, and click **Finish**.

Configure Using Microsoft Windows Server 2008

To configure SQL logging using Microsoft Windows Server 2008:

1. To open the NPS console, click **Start > Run**, and type **nps.msc**.
2. Log on to the NPS console with administrative credentials.
3. In the navigation pane, click **Accounting**.
4. In the **SQL Server Logging Properties** section, click **Change SQL Server Logging Properties**.
5. Accept the default values, and click **Configure**.

Note: Depending on your security policies, set the appropriate logging failure actions.



6. From Data Link Properties window, follow these steps.
 - a. Click the **Connection** tab.
 - b. Enter the SQL server database name.
 - c. Select **Use a specific user name and password**
 - d. Enter the administrative user from the SQL server database and the password.
 - e. Select **Allow saving password**.
 - f. In the **select the database on the server** drop-down list, select **MSNAP**.
 - g. Click **OK**.

Configure NetWitness Platform for ODBC Collection

Ensure the Required Parser is Enabled

If you do not see your parser in the list while performing this procedure, you need to download it from NetWitness Platform Live.



Ensure that the parser for your event source is available:

1. In the **NetWitness** menu, select  (Admin) > **Services**.
2. In the **Services** grid, select a Log Decoder, and from the **Actions** () menu, choose **View > Config**.
3. In the **Service Parsers Configuration** panel, search for your event source, and ensure that the **Config Value** field for your event source is selected.

Note: The required parser is **msnap**.

Configure a DSN

Configure a DSN (Data Source Name):

1. In the **NetWitness** menu, select  (Admin) > **Services**.
2. In the **Services** grid, select a Log Collector service and from the **Actions** () menu, choose **View > Config > Event Sources**.
3. In the Log Collector **Event Sources** tab, select **ODBC/DSNs** from the drop-down menu.
4. The **DSNs** panel is displayed with the existing **DSNs**, if any.
5. Click **+** to open the **Add DSN** dialog.

Note: To add a DSN template, see the **Configure a DSN** topic in the *Log Collection Configuration Guide*, available in [NetWitness Community](#).



6. Choose a **DSN Template** from the drop down menu and enter a name for the DSN. (Use this name when you set up the ODBC event source type.)
7. Fill in the parameters and click **Save**.

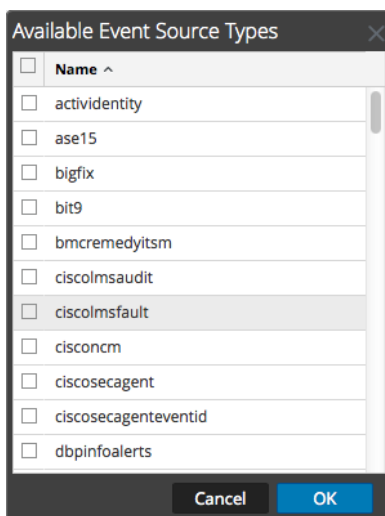
Field	Description
DSN Template	Choose the correct template from the available choices.

Field	Description
DSN Name	Enter a descriptive name for the DSN
Parameters section	
Database	Specify the database used by Microsoft Network Access Protection. Enter MSNAP (this should match the database you created or selected in the Configure the SQL Server Database section).
PortNumber	Specify the Port Number. The default port number is 1433
HostName	Specify the hostname or IP Address of Microsoft Network Access Protection
Driver	Depending on your NetWitness Log Collector version: <ul style="list-style-type: none"> • For 10.6.2 and newer, use /opt/netwitness/odbc/lib/R3sqls27.so • For 10.6.1 and older, use /opt/netwitness/odbc/lib/R3sqls26.so

Add the Event Source Type

Add the ODBC Event Source Type:

1. In the **NetWitness** menu, select  (Admin) > **Services**.
2. In the Services grid, select a Log Collector service, and from the **Actions** () menu, choose **View > Config**.
3. In the Log Collector **Event Sources** tab, select **ODBC/Config** from the drop-down menu.
The Event Categories panel is displayed with the existing sources, if any.
4. Click **+** to open the **Available Event Source Types** dialog.



5. Choose the log collector configuration type for your event source type and click **OK**.

Select **msnap** from the **Available Event Source Types** dialog.

7. In the **Event Categories** panel, select the event source type that you just added.
8. In the **Sources** panel, click **+** to open the **Add Source** dialog.

The screenshot shows the 'Add Source' dialog box with the following fields and values:

Section	Field	Value
Basic	DSN *	
	Username *	
	Password	*****
	Enabled	<input checked="" type="checkbox"/>
	Address *	
Advanced	Max Cell Size	2048
	Nil Value	(null)
	Polling Interval	180
	Max Events Poll	5000
	Debug	Off
	Initial Tracking Id	
	Filename	

9. Enter the DSN you configured during the **Configure a DSN** procedure.
10. For the other parameters, see the **ODBC Event Source Configuration Parameters** topic in the *Log Collection Configuration Guide*, available in [NetWitness Community](#).

Configure NetWitness Platform for Logstash Collection

Before setting up Logstash Microsoft Network Access Protection JDBC Pipelines in NetWitness Platform, you need to configure Microsoft Network Access Protection with NetWitness Platform. Follow the steps mentioned in the section "[Configure Microsoft Network Access Protection](#)".

Deploy Logstash JDBC Pipeline from NetWitness Live

Logstash JDBC Pipeline files require resources available in Live to collect logs.

To deploy Logstash JDBC Pipeline files from Live:



1. In the NetWitness Platform menu, select **Configure > Live Content**.
2. Type **Jdbc** into the Keywords text box and click Search to browse Live for Logstash JDBC Pipeline files.
3. Select the item returned from the search based on the DB version.
4. Click **Deploy** to deploy the Logstash JDBC Pipeline files to the appropriate Log Collector in the **Deployment Wizard**.

The screenshot shows the NetWitness Platform search interface. On the left, the 'Search Criteria' section has a 'Keywords' field containing 'jdbc'. Below it, a category tree is visible with options like FEATURED, THREAT, IDENTITY, ASSURANCE, OPERATIONS, SPECTRUM, and MALWARE ANALYSIS. On the right, the 'Matching Resources' section displays a table of results. The first row is selected, and a 'Deploy' button is highlighted in red. Below the table, it indicates '7 Matching Resources'.

Subscribed	Name	Created	Updated	Type	Description
<input checked="" type="checkbox"/>	Log Collector content for ...	2024-03-06 1:05 PM	2024-07-24 7:49 AM	Log Collector	Log Collector content for Logstash jdbc mssql auditing Pipeline
<input type="checkbox"/>	Log Collector content for L...	2023-05-17 9:41 AM	2024-07-24 7:48 AM	Log Collector	Log Collector content for Logstash jdbc oracle 11g auditing Pipeline
<input type="checkbox"/>	Log Collector content for L...	2023-05-17 9:47 AM	2024-08-02 7:21 AM	Log Collector	Log Collector content for Logstash jdbc oracle 19c auditing Pipeline
<input type="checkbox"/>	Log Collector content for L...	2023-05-17 9:45 AM	2024-07-24 7:49 AM	Log Collector	Log Collector content for Logstash jdbc oracle 18c auditing Pipeline
<input type="checkbox"/>	Log Collector content for L...	2023-05-17 9:31 AM	2024-07-24 7:46 AM	Log Collector	Log Collector content for Logstash jdbc ibmdb2 auditing Pipeline
<input type="checkbox"/>	Log Collector content for L...	2023-05-17 9:43 AM	2024-07-24 7:48 AM	Log Collector	Log Collector content for Logstash jdbc oracle 12c auditing Pipeline
<input type="checkbox"/>	Log Collector content for L...	2023-05-17 9:38 AM	2024-07-24 7:48 AM	Log Collector	Log Collector content for Logstash jdbc custom Pipeline

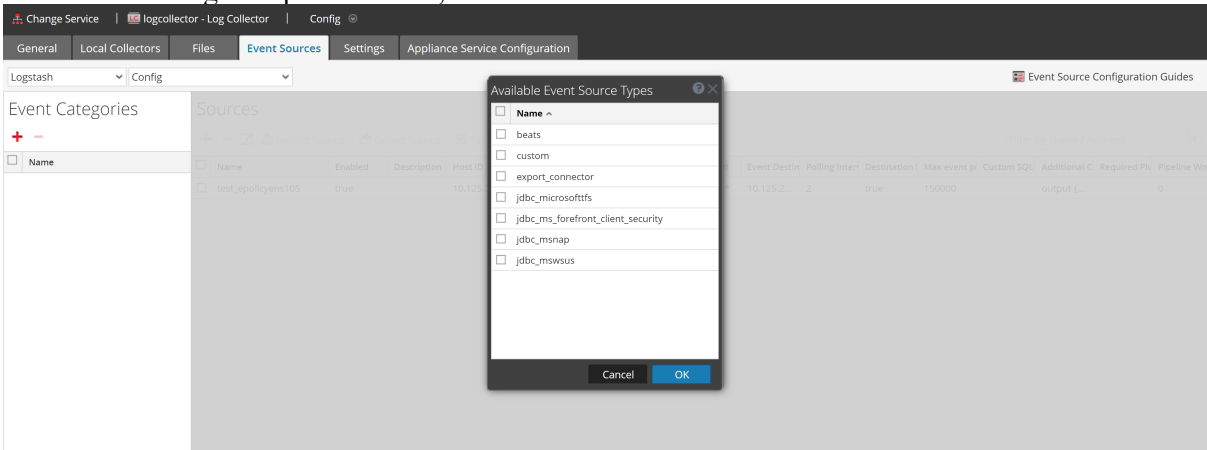
Setup Logstash Microsoft Network Access Protection JDBC Event Sources (Pipelines) in NetWitness Platform

To setup the Microsoft NAP JDBC Event Source:

1. In the NetWitness menu, select  (Admin) > **Services**.
2. In the Services grid, select a Log Collector service and from the **Actions** () menu, choose **View > Config > Event Sources**.

3. Select **Logstash/Config** from the drop-down menu.

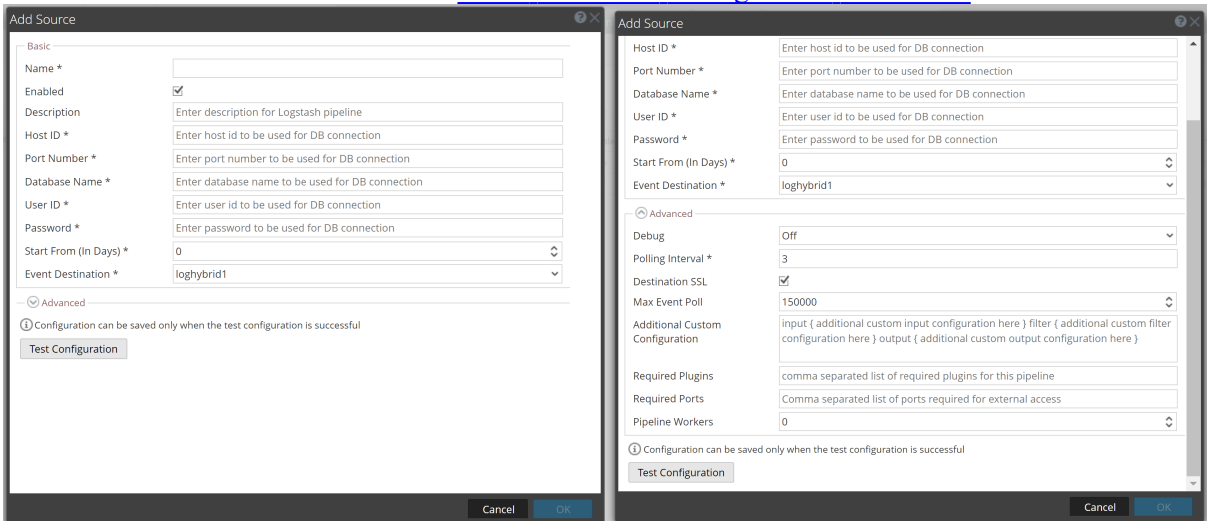
4. In the Event categories panel toolbar, click **+**.



5. Select **jdbc_msnap** from the **Available Event Source Types** list.

6. In the **Sources** panel, click **+**.
The **AddSource** dialog box is displayed.

7. Define the Parameter described in the [JDBC Collection Configuration Parameters](#).



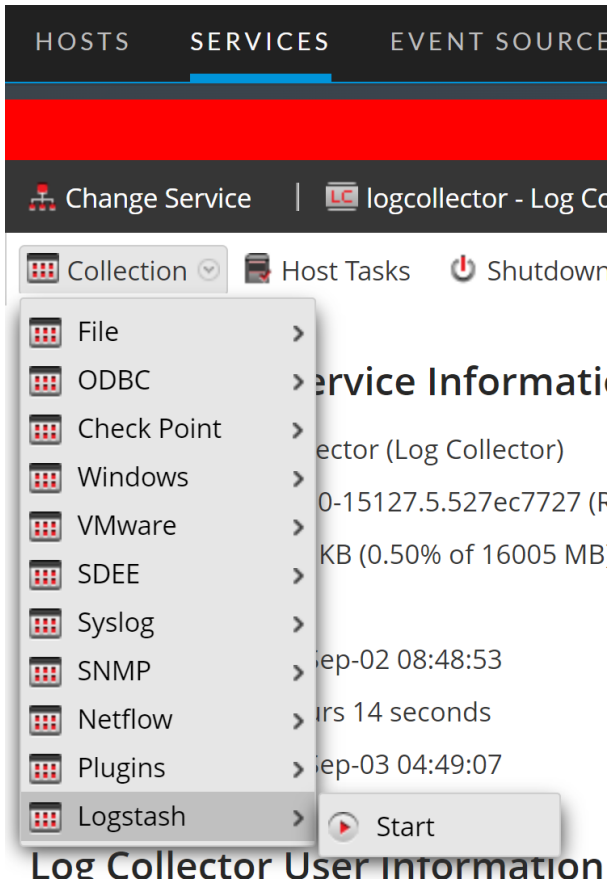
8. Click **Test Configuration**.

The result of the test is displayed in the dialog box. If the test is unsuccessful, edit the device or service information based on message shown and retry.

Note: The log collector may take 1 to 3 minutes to return the test results. If it exceeds the time limit, the test times out and NetWitness platform displays a Request Timed Out error.

9. If the test is successful, click **OK**. The new event source is displayed in the **Sources** panel.

10. Save the configuration. From the Actions menu, choose System and in the Collection drop-down menu, select Logstash > Start to start the log collection, if it's not started already.



JDBC Collection Configuration Parameters


The tables below list the configuration parameters required for integrating different database event source with NetWitness Platform through JDBC logstash pipeline.

Basic Parameters

Name	Description
Name *	Enter an alpha-numeric, descriptive name for the source. This value is only used for displaying the name on this screen.
Enabled	Select the check-box to enable the event source configuration to start collection. The check-box is selected by default.
Description	Enter a text description for the event source.
Host ID*	Enter the IP address of the machine where the database server is installed.
Port Number*	Enter the port number that you configured for your event source. The default value of port number is 1433.

Name	Description
Start Date*	Number of days before today to begin data collection (0-90, default: 0). For example, if today is 2024-09-12 and startDate is set as 10, collection starts from 2024-09-02 00:00:00 (YYYY-MM-DD HH:MM:SS). If not set, it takes default value and starts collection from today 00:00:00.
Database Name*	Enter the name of the database where the audit table exists.
User ID*	Enter the username of database.
Password*	Enter the password to log into the database.
PollingInterval*	<p>Polling interval takes the input in minutes. Based on the minutes entered, the pipeline will pull the data from the database.</p> <p>For example, If the polling interval is 1, then the pipeline will pull the data from the database for every 1 minute. If the polling interval is 2, then the pipeline will pull the data from the database for every 2 minute. This field takes the values between 1 to 60.</p>
Event Destination*	Select the NetWitness Log Collector or Log Decoder to which event needs to be sent from the drop-down list.
Test Configuration	Checks the configuration parameters specified in this dialog to ensure they are correct.

Advanced Parameters

Click  next to **Advanced** to view and edit the advanced parameters, if necessary.


Name	Description
Debug	<p>Caution: Only enable debugging (set this parameter to On or Verbose) if you have a problem with an event source and you need to investigate this problem. Enabling debugging will adversely affect the performance of the Log Collector.</p> <p>Caution: Enables or disables debug logging for the event source. Valid values are:</p> <ul style="list-style-type: none"> • Off = (default) disabled • On = enabled • Verbose = enabled in verbose mode - adds thread information and source context information to the messages. <p>This parameter is designed to debug and monitor isolated event source collection issues. If you change this value, the change takes effect immediately (no restart required). The debug logging is verbose, so limit the number of event sources to minimize performance impact.</p>

Name	Description
Polling Interval*	Enter the polling interval in minutes (1-60). This determines how often data is pulled from the database. The default value is set to 3.
Destination SSL	Select the checkbox to communicate using destination SSL.
Max Event Poll	Specify the maximum number of events that can be collected during a polling cycle. By default, this is set to 1,50,000 which is also the maximum value.
Custom SQL Statement*	By default this field is empty. It accepts any valid custom SQL query (overriding the default query) to run and collect data from the database.
Additional Custom Configuration	Use this text box for any additional configuration, in case you have multiple inputs or another set of outputs to send somewhere in addition to a NetWitness Log Collector or Log Decoder. For example, you can configure the data to be sent to Elasticsearch. In this case each event that is sent to Netwitness Platform will also be send to Elasticsearch.
Required Plugins	Specify the required plugins in a comma separated list. <div style="border: 1px solid green; padding: 5px;"> <p>Note:</p> <ul style="list-style-type: none"> - Backup and restore is not supported for custom plugins. - If the test connection failed due to required plugin is not installed, you must install the required plugin, for more information, see Install or Manage Logstash Plugin. </div>
Required Ports	Enter the list of ports required for external access.
Pipeline Workers	Number of pipeline worker threads allocated for logstash pipeline.

Configure NetWitness Platform to Collect Events

To configure NetWitness platform to collect events:

You must start capture on the Log Decoder to which you are sending the Logstash data. To start or restart network capture on a Log Decoder:

1. In the NetWitness Platform menu, select  (**Admin**) > **Services**. The Services view is displayed.
2. Select a **Log Decoder** service.
3. Under **Actions**, select **View** > **System**.
4. In the toolbar, click **Start Capture**.

Note: If the toolbar is displaying the **Stop Capture** () icon, then capture has already started.

Log Decoders can handle events up to 32 KB by default. If your events are being cut off, you need to change the event size.



To change Event Size Limit:

1. At `http://<LogDecoder_IP>:50102/decoder/config` (replace `<LogDecoder_IP>` with the IP address of your Log Decoder), change the Log Decoder REST configuration.
2. Set `pool.packet.page.size` to 64 KB.
3. Restart the Log Decoder to apply the changes.

Note: If you are collecting events larger than 64 KB, you can reduce the size of incoming data by dropping unnecessary logs or fields from specific event sources.

Ensure the Required Parser is Enabled

Ensure that the parser for your event source is available:

1. In the **NetWitness** menu, select  (Admin) > **Services**.
2. In the **Services** grid, select a Log Decoder, and from the **Actions** () menu, choose **View > Config**.
3. In the **Service Parsers Configuration** panel, search for your event source, and ensure that the **Config Value** field for your event source is selected.

Note: The required parser is **msnap**.

Getting Help with NetWitness Platform

Self-Help Resources

There are several options that provide you with help as you need it for installing and using NetWitness:

- See the documentation for all aspects of NetWitness here: <https://community.netwitness.com/t5/netwitness-platform/ct-p/netwitness-documentation>.
- Use the **Search** and **Create a Post** fields in NetWitness Community portal to find specific information here: <https://community.netwitness.com/t5/netwitness-discussions/bd-p/netwitness-discussions>.
- See the NetWitness Knowledge Base: <https://community.netwitness.com/t5/netwitness-knowledge-base/tkb-p/netwitness-knowledge-base>.
- See the documentation for Logstash JDBC input plugin here: <https://www.elastic.co/guide/en/logstash/current/plugins-inputs-jdbc.html>.
- See Troubleshooting section in the guides.
- See also [NetWitness® Platform Blog Posts](#).
- If you need further assistance, [Contact NetWitness Support](#).

Contact NetWitness Support

When you contact NetWitness Support, please provide the following information:

- The version number of the NetWitness Platform or application you are using.
- Logs information, even source version, and collection method.
- If you have problem with an event source, enable **Debug** parameter (set this parameter to **On** or **Verbose**) and collect the debug logs to share with the NetWitness Support team.

Use the following contact information if you have any questions or need assistance.

NetWitness Community Portal	https://community.netwitness.com In the main menu, click Support > Case Portal > View My Cases .
International Contacts (How to Contact NetWitness Support)	https://community.netwitness.com/t5/support/ct-p/support
Community	https://community.netwitness.com/t5/netwitness-discussions/bd-p/netwitness-discussions

Feedback on Product Documentation

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