

NetWitness[®] Platform

Microsoft Windows Server Update Service Event Source Log Configuration Guide

Microsoft Windows Server Update Service

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Event Source Product Information:

Vendor: [Microsoft](#)

Event Source: Windows Server Update Service

Versions: 3.0 SP 2, the version of WSUS that is packaged with Windows Server 2012

RSA Product Information:

Supported On: NetWitness Platform 12.3 and later

Event Source Log Parser: mswsus

Collection Methods: ODBC and Logstash

Event Source Class.Subclass: Network.Configuration Management

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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October 2024

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Configure Microsoft Windows Server Update Service

To configure Microsoft Windows Server Update Service to work with NetWitness Platform, you need to create an SQL Server User.

Create a SQL Server User

You must create a SQL Server user. You use these credentials when you Configure the NIC ODBC Service, later in this configuration.

To create a SQL Server logon:

1. Open the SQL Server Management Studio with administrative credentials, and access the Database Engine.
2. To create a new login, follow these steps:
 - a. From the **Object Explorer** navigation menu, expand your database server, which is the top item in the navigation pane.
 - b. Expand **Security**.
 - c. Right-click **Logins** and select **New Login**.
 - d. From the **Select a page** navigation menu, select **General**.
 - e. From the **Login name** field, type a login username. For example, **audit_reader**.
 - f. Select **SQL Server authentication**.
 - g. Create and confirm a password.
 - h. Ensure that **Enforce Password Expiration** is not selected.
 - i. Click **OK**.
 - j. Click **Security > Login**, and right-click **audit_reader**.
 - k. Select **Properties**, and from the **Select a page** navigation menu, select **User Mapping**.
 - l. Ensure that **Map** is checked for the **SUSDB** database.
 - m. Select the **SUSDB** database, and under 'Database role membership', check **db_accessadmin** and **db_datareader**.
 - n. Click **OK**.
3. To set the login account permission, follow these steps:
 - a. From the **Object Explorer** navigation menu, right-click your database server, and select **Properties**.
 - b. From the **Select a page** navigation menu, select **Permissions**.
 - c. From the **Login or roles** section, select **audit_reader**.

-
- d. From the **Explicit permissions** section, select the Grant column for **Connect SQL**, if it is not selected by default.
 - e. Click **OK**.
4. To set the database access permission, follow these steps:
 - a. From the **Object Explorer** navigation menu, expand your database server.
 - b. Expand **Databases**.
 - c. Right-click **SUSDB** and select **Properties**.
 - d. From the **Select a page** navigation menu, select **Permissions**.
 - e. From the **Login or roles** section, select **audit_reader**.
 - f. From the **Explicit permissions** section, select the Grant column for **Connect**.
 - g. Click **OK**.

Configure NetWitness Platform for ODBC Collection



Note: NetWitness does not support ODBC collection from the Microsoft internal database.

To configure ODBC collection, perform the following procedures in NetWitness Platform:

- i. Configure a DSN
- ii. Ensure the required parser is enabled
- iii. Restart the ODBC Collection Service
- iv. Add the Event Source Type

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**.

Database=<Specify the database used by Microsoft Windows Server Update Service, default is **SUSDB**>

PortNumber=<Specify the Port Number, default is 1433>

HostName=<Specify the hostname or IP Address of the Microsoft WSUS event source>



Driver=/opt/netwitness/odbc/lib/R3sqls26.so

Note: The Driver field refers to the complete path to your ODBC driver.

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 in 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 **mswsus**.



Restart ODBC Collection

Restart the ODBC collection service:

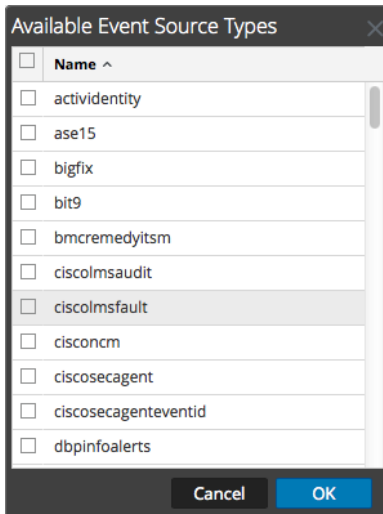
1. In the **Security Analytics** menu, select  (Admin) > **Services**.
2. In the **Services** grid, select a Log Collector service, and from the **Actions** () menu, choose **View > System**.
3. Click **Collection > ODBC**.
 - If the available choice is **Start**, click **Start** to start ODBC collection.
 - If the available choices are **Stop** and **Pause**, click **Stop**, wait a few moments, and then click **Start**.

Add the Event Source Type

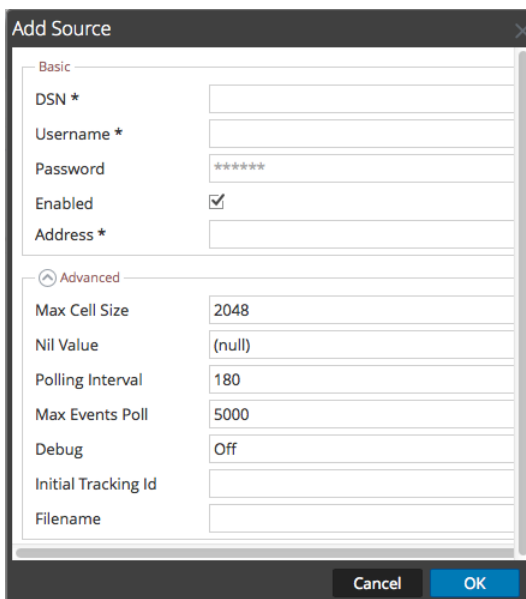
Add the ODBC Event Source Type:

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 > Event Sources**
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. Select **mswsus** and click **OK**.
6. Fill in the parameters and click **Save**.
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.



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

Configure NetWitness Platform for Logstash Collection

Before setting up Logstash Microsoft Windows Server Update Service JDBC Pipelines in NetWitness Platform, you need to create an SQL Server User. Follow the steps given in the section "[Configure Microsoft Windows Server Update Service](#)".

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' panel has 'Keywords' set to 'jdbc'. Below this is a category tree with options like FEATURED, THREAT, IDENTITY, ASSURANCE, OPERATIONS, SPECTRUM, and MALWARE ANALYSIS. There are also dropdowns for 'Resource Types' (set to Medium) and 'Required Meta Keys'. A 'Search' button is at the bottom of this panel. On the right, the 'Matching Resources' panel shows a table of results. The first row is selected, and a 'Deploy' button is highlighted in the top navigation bar of this panel.

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

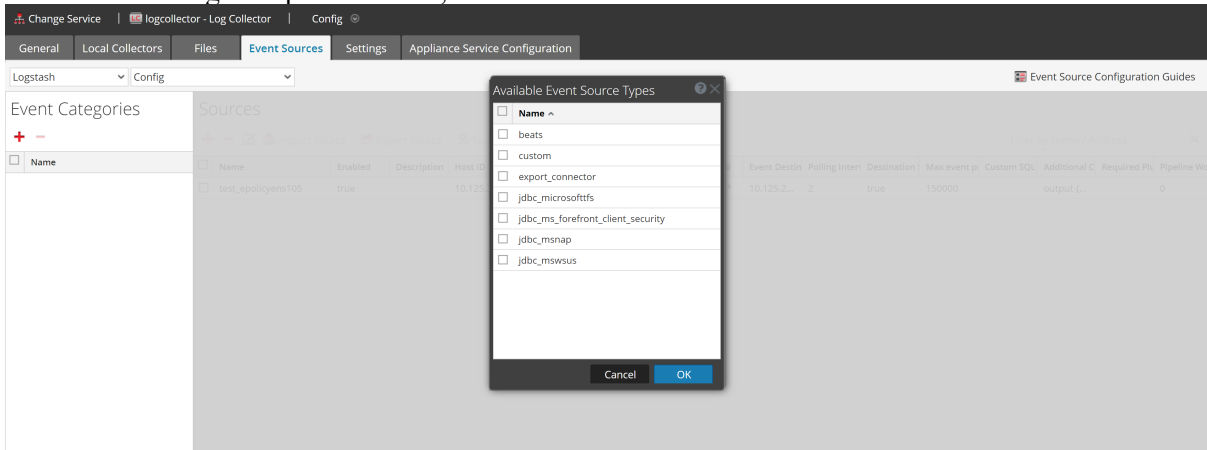
Setup Logstash Microsoft Windows Server Update Service JDBC Event Sources (Pipelines) in NetWitness Platform

To setup the Microsoft WSUS 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.

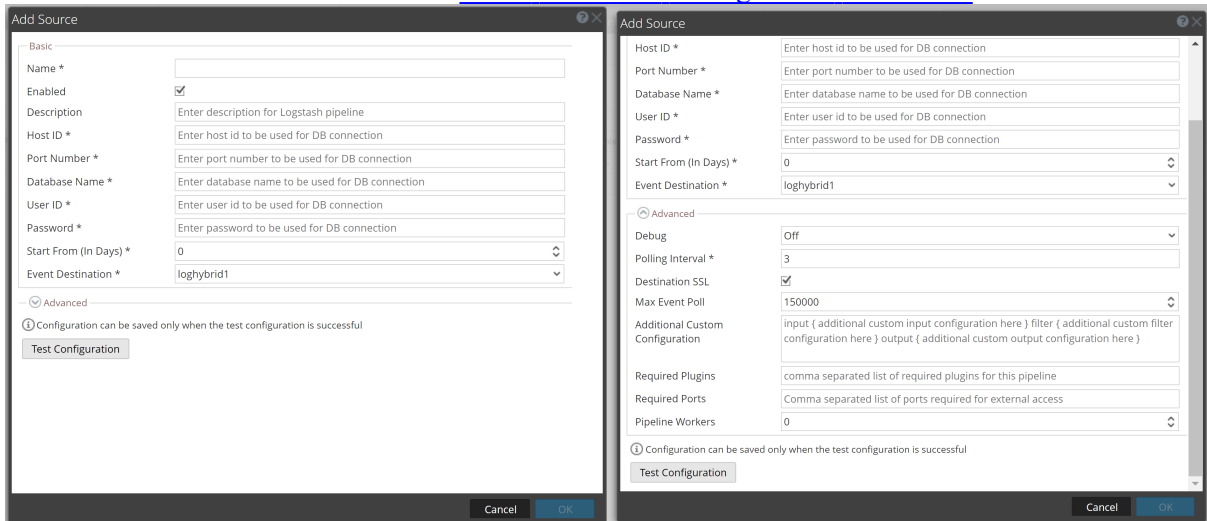
4. In the Event categories panel toolbar, click **+**.



5. Select **jdbc_mswsus** 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](#).



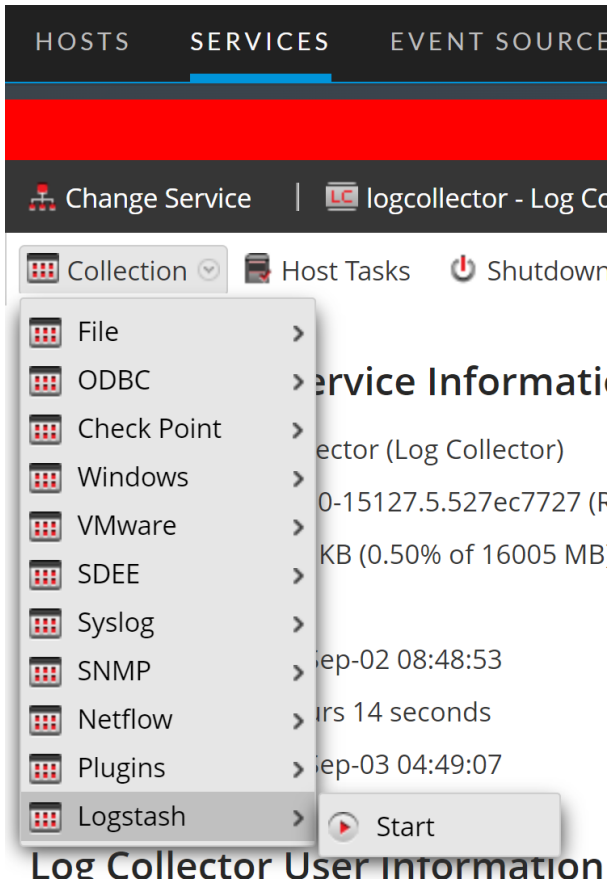
8. Click **Test Configuration**.

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 **mwsus**.

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

You can send an email to feedbacknwdocs@netwitness.com to provide feedback on NetWitness Platform documentation.